Self Study Report – 4th Cycle

Submitted to

The National Assessment & Accreditation Council
Bangalore

by

The Kelkar Education Trust's
Vinayak Ganesh Vaze College
of
Arts, Science and Commerce
Mithagar Road, Mulund (E), Mumbai-81

2012-2017

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V G Vaze College

PREFACE

The Kelkar Education Trust's Vinayak Ganesh Vaze College of Arts, Science and Commerce is an Institution of Higher Education in pursuit of quality and excellence in overall education and research.

The college is known for its quality education through its academic programs. Conducive environment for co-curricular and extracurricular activities transform the students and empower them to realize their full potential.

The college has a forward linkage as a Scientific Research Center, engaged in applied research for Industry and Agriculture by providing tissue cultured aromatic plants to farmers. The college also has a unique course in Perfumery and Cosmetology, with testing, formulation and clinical trial centre. The college has started skill development center with Language Laboratory, Commerce Laboratory, E-Learning Laboratory and Library for visually challenged.

The college has sound infrastructure and state of the art laboratories. The college was first in Maharashtra to undergo NAAC accreditation in 1998 and has three cycles with 'A' grade, has CPE status from UGC and DST-FIST and DBT-Star Scheme. Both, the teachers and students of V G Vaze College have made significant contributions in different fields in their areas of expertise and careers respectively.

The college has always strived for achieving excellence with synergy of its teaching and non-teaching staff who perform the duties with dedication, passion and commitment.

The Steering Committee for this report held series of meetings with the heads of departments, teachers, activity groups, researchers and association of students.

I would like to thank everyone involved in preparation of this report. My colleagues on the Steering Committee and Criteria Committees worked hard with sense of loyalty and clarity of thought. Without the teamwork, the Self Study Report would definitely not have taken the shape that it has. I would like to thank them for their tireless efforts.

Dr B B Sharma
Principal,
V G Vaze College,
Mulund, Mumbai-81
Maharashtra.

EXECUTIVE SUMMARY

The Kelkar Education Trust's Vinayak Ganesh Vaze College of Arts, Science and Commerce was established as a multi-faculty institution in 1984 by the Kelkar-Vaze family guided by late Shri G D Kelkar. Over last thirty two years, the college has evolved as a leader amongst peers.

The milestones include

- First institute in the state of Maharashtra to get accreditation during first cycle of NAAC in 1998 with Five Star rating
- First Reaccredited institute to be granted A grade by NAAC in subsequent Second and Third cycles
- First recipient of the Best College Award of Mumbai University during the Sesquicentennial Celebrations of the University
- Adjudged as Centre with Potential for Excellence by UGC in 2004
- Received Basic Science Research (BSR) grant and CPE grant in Stage 2
- Received DST-FIST grant
- Recipient of DBT-Star College Scheme
- Establishment of Scientific Research Center (celebrating two decade of excellence) SRC is DSIR recognized and FDA approved with the state of the art laboratories
- Healthy forward and backward academic linkages
- Strong Industry-Academic-Agriculture Interface
- Unique PG Diploma in Perfumery and Cosmetic Management

Philanthropy and excellence in every endeavour have been the underlying principles of the management with basic norm being '**No Business in Charity and No Charity in Business**'.

CRITERIA I: CURRICULAR ASPECTS

The Vision, Mission and Goals and Objectives are the guiding principles for the faculty members and are effectively communicated to the stakeholders through Prospectus, Website, and Displays. It is also communicated during the meetings by the Principal with stakeholders.

Being permanently affiliated to Mumbai University, the college is required to follow the prescribed syllabi. Innovative and effective implementation of the curriculum is ensured through a well formulated academic calendar for curricular and extracurricular activities of the college. Diaries for daily teaching learning activities are maintained by teachers and the monitoring is ensured through departmental meetings of Heads with the teachers and by the Principal during the meetings with the Heads of departments.

Teachers play the most crucial role in development of curricula of the University and the effective translation at the college level.

Contribution in evolution of the curriculum

- Principal Dr B B Sharma and three other teachers have worked as members of the Academic Council
- Three teachers are Chairpersons and seven teachers are members of Board of Studies
- Fourteen teachers have been members of syllabus revision committees
- Six teachers worked as members of BOS of autonomous institutions of the University of Mumbai
- Faculty members also served on various University Committees such as Research and Recognition Committee, Ordinance Framing Committee, Committee for PET, Board of University Teachers' Recognition (BUTR) and Scrutiny Committee for Minor Research Projects
- The college conducted many syllabus revision workshops for various subjects
- Feedback obtained during these workshops is communicated to the University for further necessary action

Academic Flexibility and Diversity

The college believes in providing academic flexibility by providing a wide range of UG, PG, PG Diploma and PhD guidance with centres, both under aided and self financing structure. To improve vocational, professional and global competencies, G D Kelkar Skill Development Centre and Finishing School was established. Under this banner, many skill development courses are conducted which enables students to acquire skills to accept scholastic, career and value oriented challenges.

Thus, despite limitations of the affiliated system, the college has developed numerous innovative courses to develop capability to relate and use knowledge in real life and work situations.

With the objectives to impart in-depth knowledge and leverage resources to improve the quality and effectiveness of prescribed courses, the college organizes workshops, seminars and conferences wherein students are encouraged to participate in organization of the event and present their work, besides getting a chance to listen to the experts in respective subjects.

CRITERIA II: TEACHING - LEARNING AND EVALUATION

The college has a reputation for transparency in admission process. The college does not accept any donations or capitation fees. It follows admission procedure laid down by the University. The institution implements statutory reservation policies and adheres to the rules of eligibility laid down by the Government. The relevant information is well publicised through prospectus and notices to ensure open access to all concerned.

Endeavour of the college is to ensure stress free life to the students. Orientation program is organised for the students at the entry level.

Considering heterogeneous composition of the students in terms of ability levels, different programmes are initiated namely,

- Remedial teaching for slow learners
- Coaching for Civil Services Examinations
- Challenging assignments for advanced learners
- Extra efforts to identify and nurture the talents of differently abled students so as to assimilate them into mainstream

In addition to lecturing methodology, many innovative methods such as projects, classroom presentations, excursions and field visits, usage of ICT and E-learning resources are deployed. Student centric learning is ensured by promoting interactive learning, collaborative learning and independent learning.

Mentor system is implemented so as to hand hold the students in academics as well in crisis arising out of personal issues. Performance Appraisal of Teachers by Students (PATS) is conducted annually by IQAC and feedbacks received are analyzed, communicated to the respective teachers and used positively to improve the quality of teaching-learning process.

Quality of teaching staff as backbone

The college can boast of many illustrious teachers who have won Best Teacher Award and other laurels at State, National and International levels.

More than fifty percent of staff members have acquired PhD and MPhil degrees. Teachers have varied expertise. They offer consultancy, are invited as resource persons and chairpersons. Most of the teachers are actively engaged in research.

Assessment of Students

First Year and Second Year examinations are conducted on behalf of University under the semester system. The college has a fully functioning examination committee which is at the helm of affairs as far as examination and evaluation is concerned. It orients FY students and their parents about the existing examination pattern and the changes therein , prepares detailed schedule of all internal and term end examinations, arranges centralised assessment using customised software for managing the exams and in declaration of results. Smooth and transparent functioning of the examination system of the college is evident from **Absence of Major Grievances** in the last 32 years.

Graduate Attributes and Learning Outcomes:

The college and every department have well defined graduate attributes and learning outcomes. This becomes the nucleus around which all the curricular and extracurricular activities are planned.

Management, Principal, teachers and students together strive to achieve the

learning outcomes. Good infrastructure and technological support, teachers' academic achievements, empathic attitude towards students, blending of different pedagogies to create interactive learning environments, and equal emphasis on extracurricular activities are conducive to the achievement of learning objectives.

It is no wonder that Vaze College can boast of illustrious alumni in different fields.

CRITERIA III: RESEARCH, CONSULTANCY AND EXTENSION

'Research the differentiator'

Research has always been prime focus of the college, right from the inception, with biotechnology as the thrust area. Management has always supported research endeavours of faculty and students. This is manifested through numerous initiatives.

- College has a Research Promotion Committee which propagates research culture
- Scientific Research Centre (SRC) and Advanced Laboratory for Natural and Synthetic Chemistry and Instrumentation centre are especially established for research in Biotechnology and Cosmetology
- SRC is approved by Department of Science and Industrial Research (DSIR), recognized by FDA and is CRISIL rated
- College has well equipped laboratories for basic and advanced research. These laboratories are maintained and updated regularly by different AMCs
- Management arranges financial support to faculty by providing seed money for projects, granting duty leave and financial assistance for attending conferences
- College has 8 research centers, 40 research scholars, 19 research guides, and 2 Adjunct Professors/Research Guides
- More than half of the faculty members have acquired PhD
- In the last 5 years, college organized 3 International, 6 National and 3 State level conferences, out of which 3 were interdisciplinary in nature
- College has three publications and one of these publications, 'Vaze Chemica' is mainly for students
- College faculty members actively participate in national and international conferences as resource persons, paper presenters and key note speakers
- Six faculty members have won prestigious research awards
- The faculty collectively has six patents
- In order to develop research aptitude among students, different activities like small projects, participation in '*Avishkar*' a research competition by the University of Mumbai, publication of research papers are encouraged

College management spends substantial amount on research. College is the recipient of UGC CPE and DST-FIST and DBT Star College grants. The

funds are ploughed back for building new facilities or upgrading the existing ones.

Social Responsibility and Industry Linkages:
Scientific Research Centre of the college has been developed as a special purpose vehicle. SRC has completed many collaborative research as well as consultancy projects with reputed industrial houses, Government agencies and NGOs. College is proud of its ISR. The college has established 'Vaze Vision' a separate section for visually challenged. A certificate course in Perfumery evaluation is also run for them. College helps them in getting placements in industry. Students of a rural college in Phondaghat will be trained by the teachers of Vaze college in many aspects. Many extension activities are undertaken to reach out to needy and less privileged sections of the society. 'Lab to Land' is the ultimate motto of any research and college research activities are driven in that direction.

CRITERIA IV: INFRASTRUCTURE AND LEARNING RESOURCES

Infrastructure and Physical Facilities: 'A matter of pride'
The college has an impressive building and infrastructure to support its wide range of curricular, extracurricular and research activities. The entire campus is meticulously maintained and space is regularly augmented based on emerging situation. College is compassionate about the needs of physically disabled students. Support facilities like ramp, elevators and toilet are provided for such students. Additionally, college has developed a learning centre for visually challenged students. College has spacious, well ventilated, airy classrooms and laboratories.

The college has well-equipped laboratories and recognized research laboratories of all science departments. E- Learning laboratory, Language Laboratory and Commerce Laboratory have been added recently to conduct additional courses.

Uninterrupted power supply is ensured as high capacity generators are installed.

Library is the backbone of any educational institute and more in the case of college which emphasizes on research related activities and in multiple fields at that. College has a well stocked, automated library with multiple reading rooms, internet facility, INFLIBNET and a separate website. Internet facility too is available. Library has an advisory committee which identifies future requirements and works towards fulfilling them.

IT Infrastructure:
There are more than 150 of computers and laptops for office, teachers and laboratories many of which are connected through LAN. Every department has a laptop and projector to support teaching-learning. Computers are maintained through AMC and are upgraded from time to time. Wi-Fi connectivity is provided in the staff room while each Department has an internet connection.

Other Facilities:

The college has a playground, an indoor gymkhana and a gymnasium stocked with equipments for indoor and outdoor activities. MoUs have been signed with other gymkhana playgrounds in Mulund area. College has two well equipped auditoriums, a GD room, Conference Room, Common Rooms for students, Activity Room and a room for Counselling.

All facilities in the college are well maintained through AMCs resulting into clean, pleasant ambience conducive to teaching and learning.

CRITERIA V: STUDENT SUPPORT AND PROGRESSION

While the profile of students of the college represents all sections of the society, success rate of course completion by the students has always been well above the University.

Various welfare measures such as concessional fee structure, deferred payment of fees, SMAF, Post-Matric scholarships for minority community, special scholarships for reserved and open categories are adopted for students. There are 25 special endowment prizes and scholarships institutionalised within the college. More than Rs 2 lacs are reserved for special endowment prizes and around Rs 10 lakhs for special scholarships for students from reserved category. College provides subsidized canteen facility and Group insurance scheme for students.

'Earn and while you Learn' scheme for the needy has been evolved.

Keeping in mind the goals and objectives of the institute, the college has introduced gamut of activities contributing to overall development of students. There are 15 different committees such as literary associations, Fine Arts Association, Science Association, DEQ, and VRG which give an opportunity to students to participate in activities of their choice. All major activities related to students of the college are routed through Students' Council (STUCO).

Sports director coordinates sports activities. Students participate in different team and individual events as per their choice. The college provides sports facilities such as volley ball, basket-ball, net ball, shooting ball, ball badminton, kho-kho, badminton, table tennis, chess, gymnastics, wushu, kudo and karate, judo, swimming and water polo.

Eight coaches have been appointed to train the students to participate in various sports events at University, State, National and International levels.

In the last five years three students have been recipients of '*Chhatrapati Krida Puraskar*'. Nine students in all have won this prestigious award over the years.

Coaching for UPSC, MPSC examinations is provided through a coaching cell which prepares aspirants to appear for competitive examination. The college

provides support for slow learners by arranging remedial lectures and bridge courses like Language Enhancement and Quantitative Techniques. College recently started G D Kelkar Skill Development Centre where 14 different short term certificate courses are made available. College has conducted an Entrepreneurial Development Programme in collaboration with Rajiv Gandhi Institute of Youth Development. College magazine Mayur and annual publication of Chemistry department Vaze-Chemica caters to the creative talents of students.

Career Guidance and Placement Cell (CGPC) of the college is very active. It acts as a facilitator between students and industry. In the last 5 years many reputed industry houses have visited college for campus placement. CGPC sharpens soft skills of students through development programmes. This has helped the students to be better equipped to face global challenges.

Student support mechanisms like Mentor System, Women Development Cell (WDC), Counselling Cell, Grievance Redressal cell, Anti-ragging cell and Special Cell are established. These systems provide psychological and emotional support to students.

Achievement of students is recognised by giving them appreciation awards.

As a result of these efforts Vaze College, is forerunner in curricular as well as extracurricular endeavours.

CRITERIA VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

Vaze College is committed to impart in depth knowledge, to ensure well-rounded development of personality of students and to leverage available resources to improve quality and effectiveness of education. These goals are in tune with objectives of higher education.

The college is governed by the Kelkar Education Trust. Trustees have representation in College Executive Committee (CEC). Perspective plan is prepared which is referred while preparing the strategies for future developments. CEC meetings are held regularly. LMC meetings are held twice a year. Policy decisions are communicated to the faculty through regular meetings with the Principal.

IQAC is mandated to prepare Quality Policy and ensure implementation. IQAC evaluates all mechanisms of academic and administrative processes by conducting audits and PATS. Depending on the inputs, policies and action plans are remodelled. The faculty members and other stake holders are actively involved in the process.

Management provides adequate funds for conducting all academic and extracurricular activities. Principal monitors effective utilization of funds. Efforts are made to procure grants from external funding agencies. Financial audits are conducted regularly.

The management believes in open and transparent system of administration where internal academic autonomy is encouraged.

For every quality initiative, operational features are well planned before implementation IQAC ensures that teaching learning processes are effective maintaining high standards.

CRITERIA VII: INNOVATIONS AND BEST PRACTICES

- College conducts Green Audit and makes conscious efforts towards eco-friendly campus
- Efforts towards conservation of electricity were recognized by MSEDCL and college gets a remission of Rs 11,000/ in electricity bill every month
- Solar panels of 10 KW capacity are installed
- Water harvesting is done by building a tank of 10000 litre capacity to store used water and reuse it for watering plants
- Check dam construction is undertaken by NSS unit in villages
- College is at the forefront in efforts for carbon neutrality. College is a recipient of funding from ACC, DBT to construct cost effective photo bioreactor
- Research in Green Chemistry is carried out either without the use of solvents or with the use of eco- friendly solvents
- Staff members have registered patents for environmentally useful products
- Vermi-composting pit is built to recycle bio-degradable waste
- Use of paper is minimized in all administrative functions
- Students are allotted projects and lectures are organized to create environmental awareness
- E-waste management is taken care of by adopting appropriate measures

Innovations in last five years:
- Section in Library for visually challenged students
- Creation of G D Kelkar Skill Development Centre and Finishing School
- Creation of Language Laboratory, Commerce Laboratory and E-learning Laboratory
- New design of Website and Increased use of website for dissemination of information
- RFID Cards and new attendance and information system
- Piped gas line connection for all laboratories
- Annual Audits of administration , academics and activity groups
- In house printing of question papers
- Emphasis on Application-oriented teaching learning
- Imparting training on new teaching methodology like POGIL
- Creation of new research centers for History and English in Arts faculty and for Physics
- Research publication like 'Vaze Vistas'
- Emphasis on interdisciplinary research – 3 national inter-disciplinary conferences
- Star College Scheme granted

Best Practice 1:
'Certificate Course in Perfumery Analysis for the Visually Challenged and Vaze Vision – Centre of E-Resources for the Visually Challenged'

Certificate course in Perfumery Analysis and Vaze Vision were started for the visually challenged in collaboration with College of Fragrance for Visually Impaired (COFVI) – CPL Aromas and Blind People's Association (BPA), Mumbai. The learners are identified from BPA and are selected for the course on the basis of an olfactory test administered. They are from mostly from lower socio economic strata. While conducting the course, the management realized that conventional resources are inadequate for these learners and hence, 'Vaze Vision' was established.

Vaze Vision has been developed with the help of Advanced Technology Blind Student's Learning Centre, Department of Education and Extension, University of Pune, NAB – National Association for the Blind, Mumbai and BPA. Learners from all batches are successfully recruited in the industry and they are using the resources of Vaze Vision. Facilities at Vaze Vision are provided free of cost.

Best Practice 2: Research: The Differentiator with focus on social welfare

The founder Chairman of Kelkar Education Trust, Late Shri G D Kelkar was a visionary, active researcher and a philanthropist. He dreamt of making Vaze College a centre of advanced research. In this context, Scientific Research Centre (SRC), Advanced Research Laboratory for Natural and Synthetic Chemistry and Perfumery and Cosmetology laboratories were established. On receiving research grants from UGC, DST and DBT, additional laboratory facilities were built for undergraduate research. The main objectives were transferring research from lab to land, establishing industry linkages and take up socially relevant research projects.

Faculty members are encouraged to take research and consultancy projects. As a result of all these efforts, college has projects like Patchouli cultivation, cultivation of aromatic plants in Dhar region of Punjab, project on carbon dioxide sequestration in collaboration with ICT DBT centre. Special efforts are made for forward as well as backward integration by encouraging researchers from other institutions and school children respectively, to carry out their research work using the facilities in the college.

Advance Research Laboratory for Natural and Synthetic Chemistry has successfully developed anti-malarial and anti-HIV agents. Anti-diabetic activities are also established.

Formulations are also done for drug and chemical industries.
Ex situ conservation of highly endemic tree species of Western Ghats of India is taken up by Botany Department.
Vaze Research Group and NSS have conducted many surveys which are useful to community.

Success of this practice is evident from the achievement of the goals set.

SWOC analysis of the Institution

Strengths:

- Progressive and proactive management with global approach and industrial backing
- Scholarly and versatile faculty
- Academically committed students and parents
- Thrice accredited with A Grade by NAAC
- Transparency and inclusiveness in the admission process
- Frontrunner in the field of Research and Consultancy with forward and backward linkages
- State of the Art Research Laboratories
- Strong Industry-Academia-Agriculture Interface
- Grants under UGC-CPE, DST-FIST and DBT-Star College Scheme
- More than 50% teachers with PhD and MPhil
- 19 PhD guides for 10 subjects and 08 PhD centres
- Large number of diverse UG, PG and PhD programs
- Skill Development Centre offering short term courses for overall development
- Representation on various committees of the University like Academic Council, RRC, Examination Committee, PET, BUTR as chairmen and members , OSD for *Avishkar*
- Faculty representing Boards of Studies of the University and autonomous colleges and other Universities
- Yearlong efforts to inculcate Environment Consciousness
- Clean and well maintained building and the campus

Weaknesses:

- Limited scope for expansion of campus in Mumbai
- Restrictions/ban on recruitment of aided faculty/staff
- Compulsions due to affiliation system
- Low fee structure of self-financing courses
- Lack of guidelines for appointment of Teachers under self-financing courses
- Space crunch faced while developing new courses
- Non availability of very big ground and open space

Opportunities:

- Autonomous Status for the Institution
- Dual/Twinning degree programs with International Universities
- Expansion in Internships for students
- Collaborative research projects with other Institutions of National Importance
- Courses for students to acquire global competency

Challenges:

- Keeping pace with Fast changing global scenario
- Financial self-sufficiency
- 100% placement through campus recruitment for those seeking jobs
- Converting the weaknesses into strengths

V G Vaze College

Steering Committee for NAAC Reaccreditation (4th Cycle) 2012-2017

Dr. Shubhangi Bhave, Vice Principal
Convener, Steering Committee

Dr. Vandana Panse
Ms. Neeta Kulkarni
Dr. Susmita Dey

Dr. Sonali Pednekar
Ms. Alka Kelkar
Ms.Chitra Subramaniam

Dr.Sudhir Dhuri
Dr. Neeta Mehta
Dr. P. Dineshkumar

V G Vaze College

1. Profile of the Affiliated / Constituent College

1. Name and Address of the College:

Name :	KET's V.G. Vaze College of Arts, Science & Commerce	
Address :	Mithagar Road, Mulund (East)	
City : Mumbai	Pin : 400 081	State : Maharashtra
Website :	www.vazecollege.net	

2. For Communication:

Designation	Name	Telephone with STD code	Mobile	Fax	Email
Principal	Dr. B.B. Sharma	O:022 21631004 R:	9820502142	022-21634262	dr.bharatbhushansharma@gmail.com
Vice Principal	Dr. S.P.Bhave	O:022 21631421 R:022 21733558	9820888632	022-21634262	spbhave@yahoo.co.in
Steering Committee Co-ordinator	Dr. S.P.Bhave	O:022 21631421 R:022 21733558	9820888632	022-21634262	spbhave@yahoo.co.in

3. Status of the Institution:
   Affiliated College
   Constituent College
   Any other (specify)

4. Type of Institution:

   a. By Gender

      i.   For Men
      ii. For Women
      iii. Co-education

   b. By Shift
      i.   Regular
      ii. Day
      iii. Evening

V G Vaze College

5. It is a recognized minority institution?

    Yes

    No ☒

    If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

NA

6. Sources of funding: Government
    Grant-in-aid Self-financing Any other ☒☒

7. a. Date of establishment of the college: 20/06/1984
    b. University to which the college is affiliated /or which governs the college (If it is a constituent college)   University of Mumbai

    c. Details of UGC recognition:

Under Section	Date, Month & Year	Remarks (If any)
i. 2 (f)	04/10/1993	--
ii. 12 (B)	04/10/1993	--

    (Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

    d. Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

Under Section/ clause	Recognition/Approval details Institution/Department Program	Day, Month and Year	Validity	Remarks
i.	NA	NA	NA	NA
ii.	NA	NA	NA	NA
iii.	NA	NA	NA	NA
iv.	NA	NA	NA	NA

    (Enclose the recognition/approval letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

    Yes ☒   No ☐

    If yes, has the College applied for availing the autonomous status?

V G Vaze College

Yes ☐   No ☒

9. Is the college recognized

   a.   by UGC as a College with Potential for Excellence (CPE)?

   Yes ☒   No ☐

   If yes, date of recognition: **10/09/2004**

   b.   for its performance by any other governmental agency?

   Yes ☒   No ☐

   If yes, Name of the agency: DBT- FIST,   Date of Recognition: 07/05/2014

   DBT Star College Scheme, Date of Recognition: 01/02/2016

10. Location of the campus and area in sq.mts:

Location *	Urban
Campus area in sq. mts.	10,193 sq.mts
Built up area in sq. mts.	21,321 sq.mts

   (* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

   • Auditorium/seminar complex with infrastructural facilities | √ | 02 |

   • Sports facilities

      ☐ play ground | √ | 02 including Mulund Gymkhana ground |

      ☐ swimming pool

      ☐ gymnasium | √ | 01 |

   • Hostel

      ☐ Boys' hostel

            i.   Number of hostels

            ii.   Number of inmates

            iii.   Facilities (mention available facilities)

      ☐ Girls' hostel

     i.   Number of hostels

     ii.   Number of inmates

     iii.   Facilities (mention available facilities)

☐ Working women's hostel

     i.   Number of inmates

     ii.   Facilities (mention available facilities)

- Residential facilities for teaching and non-teaching staff (give numbers available — cadre wise) -

√	01

- Cafeteria —

√	01

- Health centre –
  First aid

√	05

Sai Dhan Hospital

Inpatient / Outpatient / Emergency care facility-
Ambulance / Health centre staff –

Qualified Doctor   Full time   Part time

     Qualified Nurse   Full time   Part time

Facilities like banking, post office, book shops

- Transport facilities to cater to the needs of students and staff

- Animal house

- Biological waste disposal-

√	Cleansco

- Generator or other facility for management/ regulation of electricity and voltage

√

- Solid waste management facility

- Waste water management

√

- Water harvesting –

√	02

12.   Details of programmes offered by the college (Give data for current academic year)

Sl. No.	Programme Level	Name of the Programme/ Course	Duration Years	Entry Qualification	Medium of instruction	Sanctioned/ approved Student Strength FY/ SY/ TY	No. of students admitted FY/ SY/ TY
1	**Under-Graduate**	BA	3	HSC	English	240/240/240	226/206/182
		BSc	3	HSC	English	120/120/120	137/101/115
		BCom	3	HSC	English	480/480/480	485/452/408
		BAF	3	HSC	English	120/120/120	131/142/130
		BBI	3	HSC	English	60/60/60	60/59/71
		BMS	3	HSC	English	60/60/60	71/56/68
		BMM	3	HSC	English	60/60/60	71/66/61
		BSc IT	3	HSC	English	60/60/60	72/56/64
		BSc BT	3	HSC	English	35/35/35	37/40/24
2	**Post-Graduate**	MSc- Botany by Research	2	Graduation from relevant field	English	10	--
		MSc- Zoology (by papers and research)	2	Graduation from relevant field	English	10	10
		MSc Zoology by Research	2	Graduation from relevant field	English	04	---
		MSc Chemistry (by papers and research)	2	Graduation from relevant field	English	10	10
		MSc Physics	2	Graduation from relevant field	English	04	02
		MSc BT (by papers and research)	2	Graduation from relevant field	English	20	20
		MSc IT	2	Graduation from relevant field	English	20	20
		MCom	2	Graduation from relevant field	English	60	60
3	**Ph.D**	PhD Economics			English	02	02
		PhD English			English	24	07
		PhD History			English	07	07
		PhD Botany			English	15	06
		PhD Chemistry			English	20	05
		PhD Physics			English	06	--
		PhD Zoology			English	12	05
		PhD Biotech			English	20	14
		PhD IT			English	Guide only	
4	**Certificate courses**	Stress Management & Effective Study Habits			English	--	16
		English Language Enhancement			English	--	17

		Positive Psychology & Wellbeing			English	--	20
		German			English	--	48
		Basic Tally Operations			English	--	15
		Financial Skill Development			English	--	11
		Angular JS			English	--	27
		Modi Lipi			English	--	14
		Research Methodology			English	--	36
		Mushroom Cultivation			English	--	20
		Saral Hindi			Hindi	--	50
		Plant Tissue Culture			English	--	15
5	UG Diploma	--	--	--	--	--	--
6	PG Diploma	PGDPCM	2 Years	Graduation	English	25/25	25/24
7	Any Other (specify and provide details)	--	--	--	--	--	--

13. Does the college offer self-financed Programs?

Yes ☒   No ☐

If yes, how many?   12

14. New programs introduced in the college during the last five years if any?

Yes ☒   No ☐   Number   06

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programs. Similarly, do not list the departments offering common compulsory subjects for all the programs like English, regional languages etc.)

Faculty	Departments (eg. Physics, Botany, History etc.)	UG	PG	Research
Science	Biotechnology, Botany, Chemistry, IT, Mathematics, Physics, Zoology	√	√	√
Arts	Economics, English, Hindi, History, Marathi, Political Science, Psychology, Sociology Mass Media	√	-	√

Commerce	Accountancy , Business Law, Business, Economics, Commerce , EVS, BMS, BAF, BBI	√	√	-
Any Other (Specify)	PGDPCM	-	√	-

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com…)

    a.   annual system | 01 |

    b.   semester system | 21 |

    c.   trimester system | |

17. Number of Programs with

    a.   Choice Based Credit System | 21 |

    b.   Inter/Multidisciplinary Approach | 05 |

    c.   Any other (specify and provide details) | -- |

6. Does the college offer UG and/or PG programs in Teacher Education?

    Yes ☐   No ☒

    If yes,

    a.   Year of Introduction of the program(s) : NA

        and number of batches that completed the program | -- |

    b.   NCTE recognition details (if applicable)

        Notification No.:- NA

        Date: NA Validity:-NA

    c.   Is the institution opting for assessment and accreditation of Teacher Education Program separately?

        Yes ☐   No ☒

19. Does the college offer UG or PG program in Physical Education?

    Yes ☐   No ☒

    If yes,

    a.   Year of Introduction of the program(s): NA

        and number of batches that completed the program | -- |

    b.   NCTE recognition details (if applicable)

V G Vaze College

Notification No.: NA

Date: NA   Validity: NA

c. Is the institution opting for assessment and accreditation of Physical Education Program separately?

Yes ☐   No ☒

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government *Recruited*	-	-	11	16	10 + 01(PT)	5	82	11	-	-
Yet to recruit					17					
Sanctioned by the Management/ society or other authorized bodies *Recruited*	-	-	-	-	11	30	5	10	-	-
Yet to recruit										

*M-Male *F-Female

21. Qualifications of the teaching staff: (Includes Self Financing Course Teachers)

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.Sc./D.Litt.	--	--	--	--	--	--	--
Ph.D.	--	--	09	11	06	02	28
M.Phil.	--	--	--	03	01	04	08
PG	--	--	02	02	04	4	12
Temporary teachers							
Ph.D.	--	--	--	--	01	05	06
M.Phil.	--	--	--	--	--	04	04
PG	--	--	--	--	10	21	31
Part-time teachers							
Ph.D.	--	--	--	--	--	--	--
M.Phil.	--	--	--	--	--	--	--
PG	--	--	--	--	01	--	01

V G Vaze College

22. Number of Visiting Faculty /Guest Faculty engaged with the College. | 34 |

23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	2012-13		2013-14		2014-15		2015-16	
	Year 1		Year 2		Year 3		Year 4	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	132	261	124	261	178	313	193	293
ST	31	50	31	51	41	48	50	60
OBC	177	355	192	364	198	350	211	355
General	663	1518	662	1506	776	1461	774	1601
Other States	5	19	10	10	28	28	1	1

24. Details on students enrollment in the college during the current academic year: 2016-17

Type of students	UG	PG	M. Phil.	Ph.D.	Total
Students from the same state where the college is located	3552	273	-	13	3838
Students from other states of India	28	01	-	08	37
NRI students	-	-	-	-	-
Foreign students	-	-	-	-	-
Total	3580	274	-	21	3875

25. Dropout rate in UG and PG (average of the last two batches)

UG | Nil | PG | Nil |

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

A. Aided Section

| |

![logo] V G Vaze College

(a) including the salary component   Rs. 65485/-

(b) excluding the salary component   Rs.6485/-

B. Self Financing Section

(a) including the salary component   Rs. 21861/-

(b) excluding the salary component   Rs.15946/-

C. Aided Section + Self Financing Section Average

(a) including the salary component   Rs. 48531/-

(b) excluding the salary component   Rs.10163/-

7. Does the college offer any programme/s in distance education mode (DEP)?

Yes ☐   No ☒

If yes,

  a) is it a registered centre for offering distance education programs of another University

               Yes ☐   No ☒

  b) Name of the University which has granted such registration.

      | NA |

  c) Number of programmes offered   ☒

  d) Programmes carry the recognition of the Distance Education Council.

  Yes ☐   No ☒

28. Provide Teacher-student ratio for each of the program/course offered

29. Is the college applying for

Accreditation :   Cycle 1 ☐   Cycle 2 ☐   Cycle 3 ☐   Cycle 4 ☒

Re-Assessment: ☐

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re-accreditation)

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1**: 09/01/1999** Accreditation   Outcome/Result- **5 Stars**

Cycle 2: **20/05/2005** Accreditation   Outcome/Result-**A Grade**

Cycle 3: **10/03/2012** Accreditation   Outcome/Result- **A Grade 3.17 CGPA**

* Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.

31. Number of working days during the last academic year.

222

32. Number of teaching days during the last academic year

(Teaching days means days on which lectures were engaged excluding the examination days)

183

33. Date of establishment of Internal Quality Assurance Cell (IQAC)

IQAC   06/10/2005

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC

AQAR (i)   23/08/2013

AQAR (ii)   09/10/2014

AQAR (iii)   21/09/2015

AQAR (iv)   28/10/2016

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

Institutional Highlights (2012 – 2017):

Patents	06
Major Research Projects	13
Minor Research Projects	09
Number of Research Guides	19
Number of Research Centres	08
Number of papers presented	182
Number of papers published	236

V G Vaze College

Shiv Chhatrapati Awardees	03
University Ranking in Sports	In Top 10
University Toppers	4 in 2012 – 13, 02 in 2013 – 14 and 01 in 2014 – 15

V G Vaze College

Criterion I	•Dr. Sonali Pednekar (C) Dr. Alka Kolhatkar •Ms. Anita Yakkalli Dr Renuka Thergaonkar
Criterion II	•Dr.P.Dineshkumar (C) Ms Neeta Kulkarni •Ms Shirisha Gupte Ms Vaishali Dhammapathi •Mr Shyam Choitani Mr Rajesh Mane
Criterion III	•Dr. Manjushri Deodhar(C) Dr. Neeta Mehta •Dr. Satwant Balse Dr. Lakshmi Ravishankar
Criterion IV	•Dr Vandana Panse(C) Dr Sudhir Dhuri •Dr Suresh Shendage Mr. Paritosh Pawar •Ms Pournima Bhangale Mr. Bhaskar Chaudhari
Criterion V	•Dr Prakash Parab(C) Dr Adhir Ambavane •Ms Manasi Kedari Ms Seema Pawar
Criterion VI	•Ms. Alka Kelkar(C) CA Anil Naik •Dr Paresh More
Criterion VII	•Dr. Susmita Dey(C) Ms.Chitra Subramaniam •Dr. Nilakshi Roy

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

The Kelkar Education Trust's Vinayak Ganesh Vaze College of Arts, Science and Commerce was established in 1984 by the Kelkar - Vaze family guided by late Shri GD Kelkar. The management led by the then Chairman G D Kelkar has been guided by the philanthropic vision based on the principle of 'No Business in Charity and No Charity in Business'. The college is founded upon and runs on clearly stated and thoughtfully drafted vision and mission. The college sets, reviews and modifies goals and objectives in tune with the dynamic nature of the society and its needs.

The vision and mission were revisited on the occasion of Pearl Jubilee in 2014.

Vision:
To grow and consolidate as one of the foremost autonomous centres of excellence in learning that contributes to sustainable and inclusive development of a knowledge driven society and economy.

Mission:
To improve society by educating the youth and enabling them to become highly qualified and matured men and women, able to meet the need of all human activities.

Goals and Objectives:
- Impart in-depth knowledge through empowerment of teachers and a robust self-rule governance mechanism
- Leverage resources to improve the quality and effectiveness of education
- Ensure the comprehensive well rounded development of students developing
  a) Critical, analytical and leadership abilities
  b) Capability to relate and use knowledge in real life and work situations
  c) Vocational/ professional and global competencies and skills
  d) Values: social, moral, cultural and aesthetic
- Empower faculty for collaboration and consultancy with industry, NGOs, government organizations and user sectors
- Cultivate an inclusive working culture where all stake holders are aligned to achieving institutional vision and mission
- Ensure every student to be a proud Vazeite with a specific set of graduate attributes

Graduate Attributes:

- Modern youth to whom education is a means of social and economic empowerment
- Skilled to accept scholastic, career and value oriented challenges
- Environment and gender sensitive with inclusive and secular outlook
- Socially and politically aware
- Able to synergize traditional and modern values and wisdom
- Able to manage and absorb change
- Competent and competitive globally

The vision, mission and goals and objectives are effectively communicated to the faculty, students and stakeholders.

- It is published in the prospectus
- On web site: www.vazecollege.net
- Displayed in prominent locations in the campus (in the foyer and LCD display at the entrance)
- Meetings of the Principal with different stakeholders (PTA meetings, alumni meeting, staff common room meetings)

All academic programs, co-curricular and extra-curricular activities conducted by the Students Council and various activity groups are oriented towards the fulfillment of the Vision, Mission and the Goals and Objectives of the College.

1.1.2 **How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).**

The college develops and deploys action plan for effective implementation of the curriculum using the following strategies and methods:

- **Drawing up of Academic Calendar:**
  - The academic calendar is prepared by the Academic Calendar Committee prior to commencement of the academic year and shared with the faculty
  - Schedule for teaching-learning, evaluation and important activities is drawn to enable effective planning and implementation of curriculum
  - Departmental timetables for each academic year, which form a part of this calendar, are prepared and handed over to the Heads of Departments for their implementation at the departmental level
  - Class wise timetables are uploaded on the college website for easy access of the students
  - The academic and extra-curricular activities calendar is prepared on the basis of a tentative plan of the proposed activities submitted by the Heads of Departments and Conveners of Activity groups at the end of each academic year for implementation in the next year.

- **Implementation of the Academic Calendar:**
  - The departmental Heads call for a meeting of all faculty of the department in which the assignment of workload and allotment of individual timetables are discussed and finalized
  - Individual timetable of each teacher is submitted in print and e-version to the Principal.
  - Each teacher prepares his/her teaching plan for the academic year to ensure completion of the syllabus. It includes topics to be taught by the teacher and those that will be covered through self-study and students' presentations
- **Academic Diary**:
  - Each teacher is given a diary for the academic year. The academic calendar is printed in the diary for easy reference for the teacher.
  - A record of individual timetable is maintained. The teachers maintain the record in the prescribed format of the daily lectures and practicals.
  - The Heads of Departments monitor the diaries on a regular basis.
- **Heads of Departments Meetings**:
  - The Principal conducts monthly meetings with the Heads of Departments in which he takes a stock of implementation of curriculum.
  - Important university notices regarding curricular aspects are discussed in this meeting. Action plans are discussed and finalized.
  - The Heads report the activities of the department during the previous month such the completion of instructions under various programs, results, the organization and participation in Conferences, Seminars and Workshops, Study tours, industrial visits and Guest lectures.
  - The Heads also report on use of innovative practices in the implementation of the curriculum.

1.1.3 **What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?**

Support from University:
The teachers receive procedural supports from the university in the form of workshops on revised syllabus, syllabus framing meeting, membership to the board of studies in various subjects and the guidelines for conducting exams, practicals and evaluation. The teachers receive practical support from the university in the form of refresher courses, orientation courses, short term courses, conferences and seminars. Teachers are also invited to attend the guest lectures by eminent speakers under the weekly program 'EYES' organised by the University.

University also extends financial assistance to college teachers for minor research projects and buying of books under the Build Your Own Library scheme. Three teachers are currently engaged in minor research projects funded by the University and 34 teachers have availed of "Build Your Own Library" scheme.

As an affiliated college, the institution engages with the University in reciprocal ways. The teachers play a crucial role in the development of the curriculum for the University and its effective translation at the college level.

The college faculty is involved in functioning of the University in different capacities. Three teachers including Principal Dr B B Sharma worked as members of the Academic Council, three teachers as chairpersons and seven teachers as members of BOS and fourteen teachers as members of syllabus revision committees. Six teachers worked as members of BOS of autonomous institutions of the University of Mumbai. The faculty also served on various University committees such as RRC, Ordinance framing committee, Committee for PET and scrutiny committee for minor research projects.

Seven syllabus revision workshops were organized by the college.
Fourteen teachers attended refresher courses organized by the Academic Staff College.

Three staff members attended short term courses organized by the University and one staff member attended the UGC sponsored short term course on Research Methodology.

Support from the Institution:
The college encourages the teachers to participate in the orientation/ refresher courses, workshops, seminars to update their knowledge and improve their teaching practices. The institution supports participation by granting leave, reimbursement of registration fees for faculty attending such workshops / seminars organized by other colleges. The institution has inculcated healthy research culture among the staff right from inception. Financial needs of the teacher researchers were sanctioned by the institution even beyond the grants received from the funding agencies.

Several teachers are nominated/ invited as members of professional, academic and corporate bodies. They are able to provide meaningful inputs towards institutional growth and effective classroom teaching.
Some of the nominations / invites are as below:

- Represented India as Member of Working Group at ISO/TC 217 International Regulatory Convention, Geneva at Paris, Colombo and Dubai
- Member of Bureau of Indian Standards
- Secretary, Indian Botanical Society, Mumbai Chapter
- Convener, Marathi *Vishwakosh Mandal* for encyclopedia in Biotechnology
- Chairman, BOS, Botany, SNDT University
- Member of Joint Working Group of Flavour and Fragrance Committee of India (appointment by President of India)

- Member of Bureau of Indian Standards
- Joint Secretary of Indian Society of Cosmetic Chemists which is affiliated to International Federation of Society of Cosmetic Chemists
- Member of the Orientation cum selection camp for selection of the Indian team for the International Chemistry Olympiad
- Member of Royal Society of Chemistry, West India Section
- Appointed as the member of the Industrial Review Committee of International Institute of Sleep Sciences.

Teachers receive support from the institution for initiatives that go beyond the textbooks and subsequently improve the teaching process:

- Several departments organize study tours to various academic and research institutes and industrial visits though it is not prescribed in the syllabus. The institution encourages such activities by granting permission, duty leave and providing part financial support.
- Ample books, reference materials, e- library with free internet facility are provided by the college to help the teachers in effective delivery of curriculum.
- Departments are provided with lap tops and projectors.
- College is equipped with state of the art laboratory facilities
- College encourages faculty to pursue research
- Teachers are felicitated on Teachers Day in recognition of their achievements during the year.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

The college encourages departments to organize study tours and excursions, industrial visits for comprehensive understanding of the subject. The students get practical experience through visits to historical and archaeological sites, visits to NGOs and institutes working in the field of mental health, visits to Literary Festivals, visits to *Vidhan Sabha*, visits to sanctuaries and national parks, visits to studios and printing press, visits to herbal medicine factories, visits to research institutes help to inculcate research culture and open avenues for students who wish to pursue higher studies.

The faculty is provided with computers with internet facility in the staff common room. The departments are provided with laptops/ desk tops and projectors for effective curriculum delivery.

The Radhabai Vaze auditorium and the mini auditorium are equipped with internet facility LCD projector and television screen and are available to teachers and students as required for dissemination of information

Various departments are encouraged to organize conferences, workshops and seminars for faculty and students. Financial support is given for such programs. As the outcome of this initiative, following seminars, conferences and workshops were organised.

Seminars Organized		
Department	**Title**	**Year**
English	Celebrating 200 years of Jane Austin's Pride and Prejudice	2012-2013
History	Mani Kamerkar Memorial Seminar	2013-2014
Psychology	"Mantarang", Seminar on Mental health through short films	
Special Cell	State level seminar :'Inclusive Growth of India',	
Perfumeryand Cosmetology (P & C)	National seminar:'Aromatherapy: an emerging field'	2014-2015
Conferences Organized		
IQAC	Two day national conference on 'Quality Education: Revised Methodology in assessment and Accreditation'	2012-2013
P &C	One Day National conference 'PICASSA II' sponsored by ISCC	
Humanities with History as Lead Dept	National Conference on 'Revisiting World War I' sponsored by Departments of Humanities and Social Sciences	2013-2014
Botany	The 37th All India Botanical conference on Biodiversity and Climate Change in collaboration with the Indian Botanical Science Conference	2014-2015
Chemistry and Advanced Research Lab	'Emerging Trends in Chirality, Medicinal Chemistry and Perfumery'	
Humanities with Economics and Sociology as Lead Depts.	National level conference on 'Child Labour: Issues and Challenges' sponsored by ICSSR	2015-2016
Commerce and Accountancy	One Day National Conference on 'Ease of Doing Business in India – Initiatives, Opportunities and Challenges'	
P &C	A One Day International Conference, 'PICASSA III' sponsored by ISCC	2016-2017
Workshops organized		
P&C	One month workshop on Hair Care formulation techniques	2012-2013
Chemistry	Two day workshop on 'Stereochemistry' for MSc students	
Chemistry	Two days workshop on 'Basic concepts in Organic Chemistry'	
Chemistry	Two days workshop on 'NMR and IR spectroscopy'	
Botany	Workshop on Animal Tissue Culture	
Botany	Workshop on Plant Tissue Culture	
History	Indian Art and Architecture	
IQAC	3 workshops on Disaster Management	
Botany	Workshop on Plant Tissue Culture	2013-2014
Biotechnology	7 day Workshop on 'Algal biotechnology'	
Botany	Hands on training in 'Molecular Biology'	
P&C	Workshop on 'Herbal Cosmetics'	
P &C	Workshop on Perfumery	
Chemistry	Four days workshop on Basic concepts in Chemistry	
Chemistry	Three days workshop in Organic Chemistry for FY and SYBSc	
IQAC	One Day workshop for Administrative Staff	
Chemistry	Three days workshop on "Spectroscopy" for TYBSc	2014-2015
Botany	Workshop on Plant Tissue Culture	

P&C	Workshop on Basics in Cosmetics and Perfumery	
Chemistry	Four days workshop in Organic chemistry for MSc	
IQAC	One day explorative workshop on 'Quality Circle and Graduate Attributes'	
Chemistry	Four days workshop on "Basic Concepts In Organic Chemistry" for under graduate students in association with the Royal Society of Chemistry	
P &C	On line Workshop Basics in Cosmetics and Perfumery	2015-2016
Botany	Workshop on Plant Tissue Culture	
Biotechnology	Workshop on 'Algal biotechnology'	
Chemistry	Two Workshops on 'Process Oriented Guided Inquiry Learning" (POGIL) by Dr Kelly Butler	
Chemistry	Three Days Workshop on Spectroscopy for TYBSc in association with the Royal Society of Chemistry	
Chemistry	Three Days workshop on Pericyclic reactions for PG students in association with the Royal Society of Chemistry	

G D Kelkar-R A Kulkarni Memorial lecture series was launched on 6th February 2015 to commemorate 30 years of the college. Guest lectures are organized for the faculty, students and public on current issues and topics of social relevance. The eminent speakers who have visited so far have been, Dr Narendra Jadhav, the then Member of Planning Commission Government of India, Dr S Shevgaonkar, Director IIT Delhi, Mr Deepak Ghaisas, Venture Capitalist and Mr Dilip Kulkarni, noted Environmentalist. These lectures helped the teachers develop new perspective on curriculum transaction.

Research culture in the college is nurtured through a battery of well qualified faculty members. Research Guides are available in 10 subjects and 37 staff members hold PhD as their highest qualification. With 08 research centres and doctoral degree holders, the College achieves effective delivery of research based curriculum.

The College offers certificate courses in the following to enhance curriculum delivery
- Animal Tissue Culture
- Plant Tissue Culture
- *Modi Lipi*(*Modi* script was used to write administrative records from 18th to 20th century in Maharashtra)
- Research Methodology
- Quantitative Techniques
- Econometrics
- Positive Psychology
- Stress Management and Effective Study Habits
- Financial skill Development
- Basic Tally Operations
- Mushroom cultivation
- English Language Enhancement course
- German
- *Saral* Hindi

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalisation of the curriculum?

Department of Perfumery and Cosmetology shares the curriculum with organizational heads of various industries. Their inputs are solicited and incorporated into the syllabus. The institution also provides a platform for student – industry network through ISCC.

Scientific Research Centre is the extension of the college to carry out cutting-edge research. It is headed by the Principal and the college faculty is also closely involved in its research projects. It networks with industry by taking up industry research projects and by participating in conferences and seminars. Post Graduate students are absorbed into the industrial projects taken up by the SRC.

Advanced Research Laboratory for Natural and Synthetic Chemistry undertakes academic research projects and research projects of the industry. Students are enrolled and have obtained PhD under the guidance of Adjunct Professor/ Adjunct Research Guide.

College invites eminent scientists and industrialists as guest speakers and their visits to the college help in developing ties with industry/research centres as well as in effective delivery of the curriculum. Following is the list of industrialists and scientists who have visited the college in the last five years:

- Dr Anil Kakodkar, Chairman, Atomic Energy Commission
- Dr Sanjay Deshmukh, Vice Chancellor, University of Mumbai
- Ms Marriam, Technical Head, Gattefosse, France
- Dr Sunil Bambarkar, MD, Gattefosse, India
- Dr Vijay Bambulkar, Director, Asia Pacific Regulatory Affairs for External Growth and Innovation, Johnson & Johnson
- Dr B R Gaikwad, Chairman, Chemxil and Director, VVF industry
- Mr Chris Pickthall, Managing Director, C PL Aromas
- Mr Ajay Vashi, R & D, Director, Hindustan Unilever
- Dr P Singh-Director, Botanical Survey of India, Kolkata
- Dr B Pashupati – Former Chariman, National Biodiversity Board
- Prof H Devraj - Vice Chairman, UGC
- Dr M Aslam - Advisor, DBT
- Dr E Bharucha, Chairman, Maharashtra State Biodiversity Board
- Dr J A Khan, Chairman, Gujrat State Biodiversity Board
- Prof T Pullaiah, President Indian Botanical Society
- Dr Kankan Bhattacharya, Professor, Indian Institute for Cultivation of Science
- Dr Prabodh Chobe, Director,YCMOU

- Dr Santosh Gharpure, Faculty, IIT Bombay
- Dr Kalliapan, Faculty, IIT Bombay
- Dr Anindya Datta, Faculty, IIT Bombay
- Dr Arindam Chaudhary, Faculty, IIT Bombay
- Dr Arnab Bhattacharya, Scientist, TIFR
- Dr Shiraz Minwalla, Scientist, TIFR
- Dr Kumbhar, Faculty, University of Pune

Students are taken to industries, research institutes and NGOs to enable them to understand their functioning and interact with employees. They gain first-hand information during their visit and interactions and correlate it with their curriculum. The list of visits undertaken is as follows:

Year	Department	Place of visit
2012 -13	Economics	Chhatrapati Shahu Cooperative Sugar Factory, Kagal, Maharashtra
	Economics	RBI Monetary Museum
	Psychology	- Gharkul – Home for mentally challenged adult, Dombivili - International Institute of Sleep sciences, Mulund - Aatman – School for special Children, Thane - Muktangan – Rehabilitation Center for various addictions - JnanaPrabodhini Institute of Psychology - Chaitanya Mental Health Care Center - Schizophrenia Awareness Association - Yerawada Central Jail - Department of Psychology, University of Pune
	BAF/ BBI	Nashik , Hyderabad and Bangalore - Mysore
	BMM	Mysore – Ooty
	History	Jodhpur – Jaisalmer
	English	Jaipur
	P & C	Baddi – Manali
2013-14	History	Amritsar – Chandigarh – Rakhigarhi
	BAF/ BBI	Silvassa, Jaipur, Chandigarh and Manali
		Bombay Stock Exchange
	English	Hyderabad
	BMM	Udaipur
	PGDPCM	Bangalore – Mysore – Coorg
	Physics	PRL,IPR Ahmadabad, Observatories at Mt Abu and Udaipur
	Chemistry	Indian Institute of Science Education and Research, Pune
2014-15	History	Agra-Fatehpursikri -Jaipur-Ajmer and Pushkar
	Psychology	NIMHANS, Bangalore
	BAF/ BBI and BMS	Parag Milk Foods Pvt. Ltd., Mancher, Pune
		DainikBhaskarJaipur
		Kerala
		Kochi – Munnar and Kumarakom, Kerala
		Bombay High Court and Bombay Stock Exchange
	English	Mumbai Literature Festival

	Chemistry	Industrial Visit for TYBSc and MSc students to SHKelkar Company, Vashivali
2015-16	Psychology	Goa / Chennai
	Sociology	National Institute of Rural Development, Hyderabad
	Accountancy and Commerce	Parag Milk Foods Pvt. Ltd., Mancher Pune (Go Cheese)
	History	Bijapur-Badami-Aihole and Pattadakkal
	BMM	Amritsar – Chandigarh
	BAF/ BBI and BMS	Parag Milk Foods Pvt. Ltd., Mancher Pune
		DainikBhaskar Jaipur
		Utaranchal
		Bombay Stock Exchange
	P & C	Baddi – Manali
		Silvassa
	Chemistry	ISRO, Raman Museum and IISc, Bangalore
	Physics	ISRO, Raman Museum and IISc, Bangalore

List of Companies that visited the College for placements
L'Oreal, Godrej, IFF, Cheryl's Cosmeceuticals, Fiabila, CPL Aromas, Galaxy Surfactants, Asthana Herbals, Malaysia, Pragati Aromas, GFL Fragrances, Marico, ITC, AeroPharma, Alcos International, Aquaproofers, Kumar Organics, Emami India, Kaya international, Aarav Fragrances, Eurofragrances, Lykis , Glint Cosmetics, Biosol, Orac life Sciences, claims Pvt Ltd, Yasham Lifesciences, Keva Fragrances, D K Specialities Chemicals, STC Marketing, Chemhouse Marketing, JKH Imports & Experts, Maitrei Herbals, Gattefosse, Anshul Lifesciences, Sage Cosmetics.

List of collaborative research projects with industries and institutes
- Department of Botany has collaborative research projects with the following Institutes
  i) ICT DBT Centre for energy bio fuels
  ii)*Konkan Krishi Vidyapeeth* and National Bureau for Plant Genomic Resource (NBPGR), New-Delhi on:
  - Carbon dioxide sequestration
  - Study on one highly endemic tree species Garcinia of Western Ghats of India
  iii) ACC funded project on Carbon sequestration using micro algae

- Department of Chemistry
  - A mentor for the National Initiative in Undergraduate Science (NIUS) program of Homi Bhabha Centre for Science Education
- Laboratory for Advanced Research in Synthetic and Natural Product Chemistry has collaborative research with the following institutions:

Collaborating partners	Projects
National Institute of Immunology, New Delhi	Development of New Anti-HIV Molecules

| University of Delhi	Development of New Antimalarial Molecules
Tata Memorial centre for Advances Treatment, Research and Education	Development of New Antitumor Molecules
Entomology Division, National Chemical Laboratory	Development of New Insect Control Agents
Satyavathy Biolife	Development of New Bioactive Phytochemicals
BioAmber, INC, USA	Synthesis of biosuccinic acid derivatives and Cosmetic evaluation
S.H.Kelkar and Company	Development of new Perfumery and Pharmaceutical molecules

- Department of Perfumery and Cosmetology
  - 2 projects with Bioamber, an international company for an amount of Rs 18 lacs approx from 2012 to 2014.
  - With CPL Aromas for conducting the course for visually challenged students

1.1.6   What are the contributions of the institution and/or its staff members to the development of the curriculum by the University?(number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.

24 staff members of eight departments are involved in various university committees for the development of the curriculum.

The faculty involved in the BOS and syllabi revision committees make meaningful suggestions to the University during the process of revision. These suggestions are generally based on the discussions with students, parents and industry partners.

Some of the teachers who are on the BOS of autonomous colleges share their inputs regarding the development of curriculum on the basis of their experience and interaction in those colleges.

11
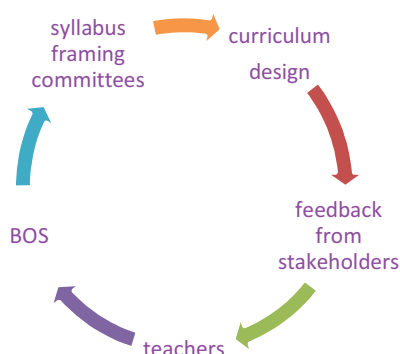
1.1.7 **Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university)by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.**

PGDPCM Curriculum was developed by the college in collaboration with ISIPCA and P&C industry. It was first approved by UGC under Innovative program, even prior to getting the approval of the university. We are the only college offering this program not only under university of Mumbai but also at the national level.

Several certificate courses have been developed by the faculty to cater to the needs of the learners. These courses try to bridge the knowledge/skill gaps in prescribed curricula. The courses are well publicized in college through posters, banners, website, notice boards and electronic screen. Admissions to these courses are open for students of the college, students of other colleges and members of the society. Since some of these courses have been conducted for a period of more than 5 years, they now attract enrolment through word of mouth publicity. The demand for the courses is high; however the number of admissions is restricted to maintain quality in teaching-learning. The details of such courses are listed in 1.1.4.

The Departments which design these courses communicate their requirements to the Academic Calendar committee for allotment of space / time slots in classroom / laboratory. The syllabi, study material, and testing models used in these courses are developed by the departments.

In some courses a pre-test is administered to determine the level and problems of the learners. Subsequently the learners are taught a syllabus which is divided into modules. The students are evaluated for their understanding and skill acquisition at the end of the course and the certificates are given thereafter.

1.1.8 **How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?**

Objectives of the curriculum are generally stated in the syllabii and the teachers analyse these objectives before the commencement of programs and the effectiveness of curriculum implementation is assessed by analysing results.

The analysis reveals that the college results have always been higher than the University results in every faculty.

List of University toppers:

Name of student	Program	Year	University Rank
Shama Chalke	BA History	2012-13	1st
Tulsi Soni	BA Sociology	2013 -14	1st
Sammanaz Irani	BA Sociology	2013 -14	2nd
Kuldeep Mhatre	BSc Zoology	2012-13	1st
Revati Dewal	BSc Biotechnology	2012-13	3rd
Karishma Rane	BCom	2012-13	3rd and Topper in Accountancy
Robin Mathew	MSc Zoology	2013 -14	1st

1.2   Academic Flexibility

1.2.1   Specifying the goals and objectives give details of the certificate/diploma/skill development courses etc., offered by the institution.

Several courses are conducted to enable the students to acquire skills, knowledge and values. Each course addresses specific needs of the learners and the following are the goals and objectives of the different certificate courses:

- *Modi Lipi*: teaches the students the medieval script which was used to write administrative records of the 18th to 20th century Maharashtra. The objective of the course is to enable the students to read and interpret various documents written in *Modi*
- Research Methodology: This course imparts skills of data collection and compilation in the context of social sciences. The objective is to enable the learners to analyze and interpret data
- Quantitative Techniques: The objective is to help students to understand, analyze and interpret statistical data
- Plant Tissue Culture Techniques: The course enables students to understand and use techniques of PTC. The objective is to train the students to launch their own start up industry and also help develop better strains for farmers
- German: The objective is to train students in a foreign language for better employability opportunities
- Financial Skill Development: imparts practical knowledge of financial analysis
- Basic Tally Operations: improves skills in accountancy for better job prospects
- Positive Psychology and Wellbeing: This course makes the students aware of positive emotions, positive cognitions and positive behaviour. The objective is to enable them to apply these concepts in real life and enhance their wellbeing
- English Language Enhancement: instills confidence among students in conversational English. The objective is to enable them develop reading, writing, listening and speaking skills
- *Saral* Hindi: for enhancement of spoken Hindi skills

- Stress Management and Effective Study Habits: to help the young adults to cope with stress and improve their academic performance

In 2015 – 2016, the G D Kelkar Skill Development Centre and Finishing School has been set up to impart specialized skills and knowledge beyond the curriculum. All the above courses have since then been brought under the banner of the Centre.

1.2.2   Does the institution offer programs that facilitate twinning /dual degree? If 'yes', give details.

The institution does not offer twinning / dual degree programs. However, a large number of BCom students simultaneously pursue professional courses such as CA, CS, ICWA and CFA. Similarly, BA students enrol for foreign language courses at Alliance François, Max Mueller for French, German and also for Japanese.

1.2.3   Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:
- ★ **Range of Core / Elective options offered by the Universityand those opted by the college**
- ★ **Choice Based Credit System and range of subject options**
- ★ **Courses offered in modular form**
- ★ **Credit transfer and accumulation facility**
- ★ **Lateral and vertical mobility within and acrossprograms and courses**
- ★ **Enrichment courses**

The institution offers a wide range of aided and self-financing programs for the students of each faculty.

Under Graduate Courses
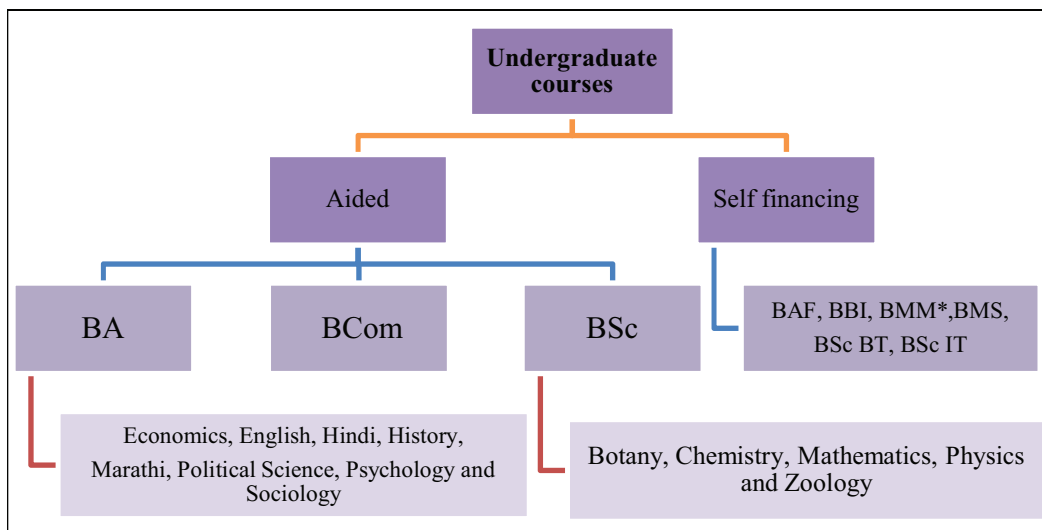
UG programs have multiple and choice based options as given above.

*BMM – Bachelor of Mass Media (admission open to Sc/Com students as well) - two options at TY level, Advertising and Journalism

Students can choose from
- 40 optional subject combinations at FYBA
- 04 optional subject combinations at FYBSc
- 28 optional subject combinations at the SYBA
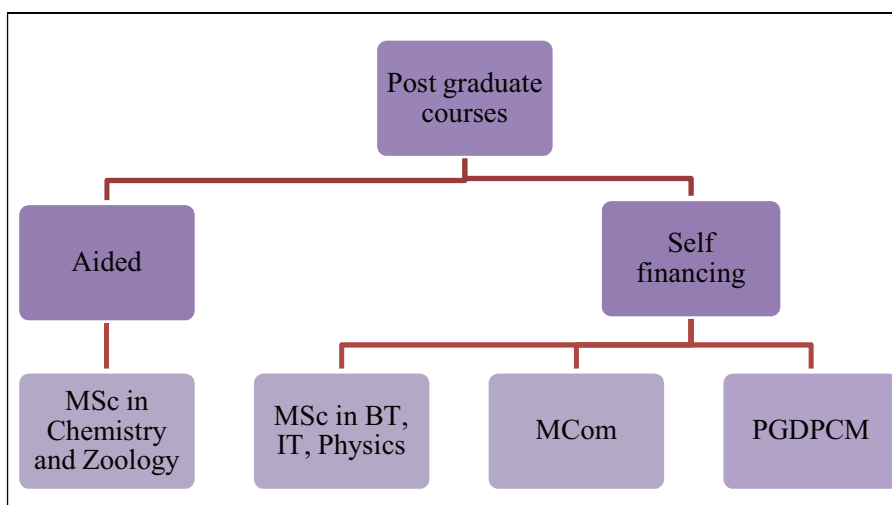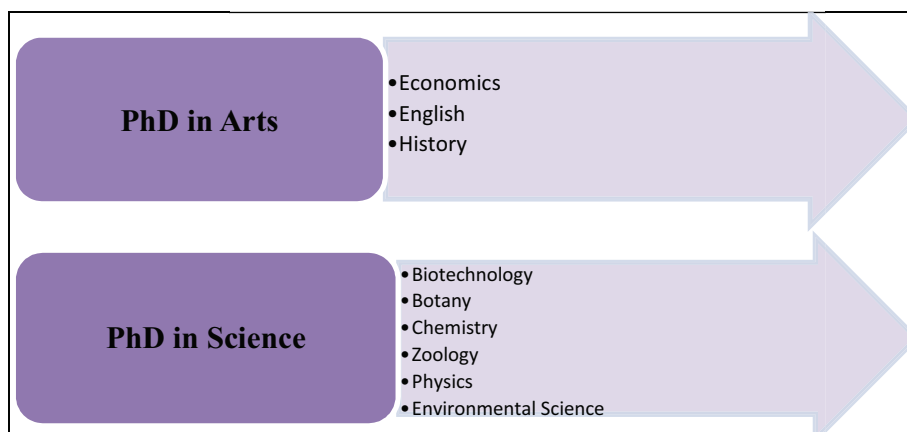- 05 optional subject combinations at SYBSc

Post Graduation Courses

| PhD in Arts | • Economics
• English
• History |
| PhD in Science | • Biotechnology
• Botany
• Chemistry
• Zoology
• Physics
• Environmental Science |

Currently, there are 19 recognized guides for PhD in 9 subjects and also to guide MSc by Research and MPhil students.

Credit transfer and accumulation facility

Inter institutional credit transfer is permissible for students of the University of Mumbai. Students from other colleges affiliated to University of Mumbai and / or other universities are admitted to SY and TY classes based on availability of seats and merit.

Bonafide students of the college can seek admission to distance learning and vice versa with credit transfers. In case of gap in study, the credits can be accumulated by the learner. The introduction of the CBCGS by the university has facilitated this.

Lateral and vertical mobility within and across programs and courses

Lateral mobility is followed as per University norms and is reflected in the college in the form of the following:
- Admission to BA for students who have passed XII Science and Commerce
- Admission to BCom for students who have passed XII Science
- Admission to BAF for students who have passed XII Science and Commerce
- Admission to BMM and BMS for students from any faculty based on merit at entry level
- Admission to PGDPCM is open to science graduates and graduates of any other faculty with three years of relevant industry experience.
- Admission to MCom for BCom, BAF, BBI and BMS graduates.
- Admission to MSc IT for BSc graduates in Physics and Mathematics

1.2.4 **Does the institution offer self-financed programs? If 'yes', list them and indicate how they differ from other programs, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.**

The College offers 11 self-financing programs as shown below:

Self financing Programs

MSc Physics, MCom, PGDPCM, BAF, MSc BT, BBI, MSc IT, BMM, BSc BT, BMS, BSc IT
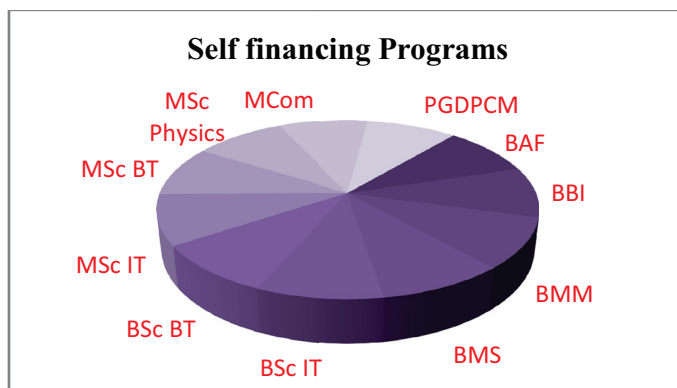
Separate applications are sought for admissions to these courses. Merit lists for each course is displayed separately with all norms of reservation taken into consideration.

The curriculum of these courses is separately decided and communicated by the respective Board of Studies of the University of Mumbai for each course.

The fee structure is separate and is according to the notifications of the University and the Department of Social Welfare.

The UGC norms with respect to qualifications regarding the appointment of full time teachers are followed. A sizable number of the lectures are engaged by professionals from the industry as visiting faculty. They share their industrial experiences with the students.

The salaries of the some permanent full time teachers are according to UGC scales. Ad-hoc full time teachers are paid a fixed amount on a monthly basis, while visiting faculty is paid on a lecture basis.

1.2.5 **Does the college provide additional skill oriented programs, relevant to regional and global employment markets? If 'yes' provide details of such program and the beneficiaries.**

The college has been conducting several skill oriented programs of regional and global importance for the students.

Modi Lipi, a course of regional relevance, is conducted by the department of History to train students in the reading and writing of *Modi*, a script used in 18th -20th century records of Maharashtra. There is a paucity of people who can transliterate documents written in *Modi* script. The skill equips the students to earn as well as provide service to the community.

The Department of Perfumery and Cosmetology was established to cater to the needs of the global employment market. A special skill oriented diploma program was designed.

The department conducts an additional skill oriented certificate program in Perfumery for the visually challenged students to enable them to seek employment in the Perfumery industry.

Special accomplishment of the department is 100% placements of the students.

1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice" If 'yes', how does the institution take advantage of such provision for the benefit of students?

Yes. University allows students of affiliated colleges to enrol for distance education programs. Many students do enrol for such add-on programs.

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programs and Institution's goals and objectives are integrated?

As an affiliated institution, the college is required to implement the syllabus revisions. Feedback on the curriculum from the various stakeholders helps to identify the areas of improvement. Keeping in mind the institutional goals and objectives, different certificate courses are introduced. Such courses help in bridging the gap between the curriculum and the emerging thrust areas.

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

The institution has always taken initiative to enrich and supplement the university prescribed curriculum. As a multi faculty institution, the college offers a wide range of self-financing courses to meet the needs of the dynamic market.

Special efforts are made by the faculty to keep the students abreast with the changing global scenario.

The students are made technologically sound and provided with the latest market news and trends to achieve this objective. Changing market demands are understood by the students through participation in seminars and conferences, guest lectures by eminent industrialists and experts and market visits. The students are also given projects to put this acquired knowledge in practical application.

Department of Botany conducts courses in Plant Tissue Culture, Animal Tissue Culture and Mushroom Cultivation so as to empower the students to earn livelihood through start-ups.

Students of the IT department have been given projects to develop software and mobile applications. The college has effectively put into practice such applications developed by the students.

The TY lectures are specially arranged by inviting visiting faculty from specific industry. For instance, E Commerce marketing for TYBMS is taught by the faculty from the E Commerce industry, some of MSc Biotechnology and IT lectures are engaged by experts from industry. The PGDPCM course invites professionals from the perfumery and cosmetic industry to share their experiences with the students.

Although the curriculum does not make it mandatory, the College has encouraged students to adopt a practical approach to prepare them for the employment market. SYBMS students have done internships during summer vacation in their respective fields – HR and Marketing. In TYBMS, these students would do a project on the same industry in which they were interns.

Role playing, group discussions train the students to face interviews. Various marketing events are conducted for example, Brand building, marketing and advertising are regularly held. 'Easter Tide' is an event conducted by the students wherein they set up stalls to sell their products. In the process, advertising and marketing skills are developed. Finally, they are required to prepare the financial report for their activity to enhance their business acumen.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

- The interdisciplinary course on Foundation Course is compulsory for students of all faculties at the FY and SY classes. The syllabus covers topics on gender sensitization, climate change, environmental education and human rights.
- These issues are also discussed as part of the syllabi in courses such as Environmental Studies for FYBCom, Applied Component on environmental science for TYBSc Botany, Zoology and Biotechnology students.
- Human rights are covered by the department of Political Science and the department of English deals with literature arising out of these issues.
- Syllabus for Mass Media course also offers the freedom and scope to discuss these cross cutting issues, using feature films and documentaries.
- The Women's Development Cell organizes talks on gender issues.
- The Science Association creates consciousness regarding environment and climate changes by inviting experts to deliver lectures on such themes.

- The students of the college along with NSS volunteers participate in activities such as tree plantation program in collaboration with *Hariyali* (NGO), construction of bunds in the adopted village near Shahapur.
- A lecture on Solid Waste Management in Cities by Dr Lata Ghanshyamia of *Nisarga* Foundation (NGO) was arranged by the Science Association. Mr Dilip Kulkarni delivered a lecture on Environmental consciousness for teachers and students.

All these efforts on the part of the institution are to integrate the cross cutting issues in the institutional milieu.

1.3.4 What are the various value-added courses/enrichment programs offered to ensure holistic development of students?
★ **moral and ethical values**
★ **employable and life skills**
★ **better career options**
★ **community orientation**

The various activity groups of the college provide a good platform for the holistic development of the students' personality. The students are encouraged to participate in many of the activities. They learn inter personal relations, team work, organizational skills, leadership qualities and presentation skills. The students imbibe values such as integrity, cooperation, tolerance, harmony and peaceful co-existence.

Soft Skill workshops are arranged for the students by several departments and the Career Guidance and Placement Cell of the College. The students are helped to evolve into smarter individuals with employable skills by training them in personality development skills.

The Perfumery and Cosmetology department trains the students in presentation skills through formal dressing on every Wednesday, individual counselling on body language and providing platform for interacting with industry people so as to learn the professional ethics by observation. These ethics groom the students for better career options. Courses and guest lectures are also organised by industry professionals for better understanding of various careers.

In the Self Finance Courses, students are required to make presentations in 'formal attire'. This helps in boosting self-confidence.

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

The institution has the practice of taking a feedback from various stakeholders. Many of the alumni and parents expressed the need for additional courses for academic enrichment, to cater to the changes in the employment market, to address global needs and for personality development.

The feedback has led to the commencement of courses such as Financial Skill Development, Basic Tally Operations and courses in German and English language enhancement.

In 2015 – 16 this culminated into the establishment of the G D Kelkar Skill Development Centre and Finishing School.

Two new courses – Advanced Diploma in Fashion Designing and Advanced Diploma in Interior Designing have been introduced in 2016 – 2017.

Some of the students of PGDPCM course expressed the wish to learn the taxation structure in the cosmetic industry. Based on this suggestion, a chapter on the same was included in the syllabus.

Based on a similar feedback from the visiting faculty representing industry, the component of E-Commerce marketing was introduced for TYBMS.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programs?

The institution monitors and evaluates the quality of its enrichment programs such as Certificate Course in Positive Psychology and Wellbeing and Stress Management and Effective Study Habits by obtaining feedback from the learners and by maintaining a log of the activities. There has been a consistently good response to such enrichment programs offered by the college. Besides Vaze College students, these courses attract participation from students of other colleges and from the community. Admissions to these courses are limited to ensure quality of the program. Each year, the number of applicants exceeds the number of admitted students.

The quality of the programs can also be seen in the 100% placement record of the Certificate Course in Perfumery for the visually challenged, conducted by PGDPCM.

1.4   Feedback System

1.4.1   What are the contributions of the institution in the design and development of the curriculum prepared by the University?

The feedback on regular courses is communicated to the University through the faculty, many of whom are members of the Board of Studies and Syllabi Revision Committees. (Refer to 1.1.3 for details)

Feedback from visiting faculty is used to revise curriculum for the self-financing courses. The visiting faculty gives a verbal feedback on the practicality of the curriculum. Introduction of the subject of E Commerce is an example of a relevant component incorporated in the curriculum of the BAF course.

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programs?

Yes, the institution has such a mechanism. The feedback from teachers is obtained and is communicated to the University through the members of the Board of Studies and Syllabi Revision Committees. For self-financing Courses where faculty changes semester wise, feedback is obtained twice a year. Some of the visiting faculty are invited members of the Board of Studies in the Self Financing courses. Their suggestions are incorporated in making the course a better learning ground for them. Internally, the feedback obtained is used designing bridge courses and skill enhancement courses.

The PGDPCM is a unique course which is designed on the basis of the feedback obtained from various stakeholders. The committee framing the syllabus of this course includes the members of industry and academia.

1.4.3 How many new programs/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programs?)

The college started 6 new courses in the last four years, based on need analysis.
- BMS   2013 – 2014
- MCom   2013 – 2014
- MSc Physics (by research)   2015 – 2016
- PhD History   2012 – 2013
- PhD English   2013 – 2014
- PhD Physics   2016 – 2017

Each course was started with a distinct rationale.

BMS was introduced in 2013 -14 with the purpose of catering to the demand for Management Studies in the employment market. The course provides the foundation for the Masters Degree in Management.

The MCom program was introduced on demand from the students. The students expressed desire to seek admission to the MCom course if conducted in the morning hours as they would be free for the rest of the day to pursue their jobs. In response to their demand, the MCom program was introduced with classes held in the morning from 7 am to 9 am.

The course on Bachelors in Accounting and Finance was in great demand. The College had permission for one division, while the demand ratio was three times the number of seats. Hence the college obtained permission to start an additional division of BAF.

The graduates of our college keenly put forth the demand to start PG and doctoral courses in the college. Considering their demand and the availability of expertise and space, such courses were initiated. The Department of Physics has been granted permission to start the MSc (by Research). While the sanction letter for PhD centre in Physics is awaited from the University, PhD centres in History, English have been established.

CRITERION II: TEACHING - LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

2.1.1 How does the college ensure publicity and transparency in the admission process?

The college strictly follows admission procedure as per university norms and schedules. The college has developed an effective publicity mechanism for admission to all its courses and has a reputation for transparency in admission process.

Publicity in admission process:
The institution publicizes information related to admission through the updated prospectus, college website and notice boards.

Website: Elaborate guidelines on admission and courses offered are available on the college website. It contains relevant information on all Aided and Self Financing programs, in the UG, PG and PhD sections. It also contains information on the skill enhancement and short term enrichment courses.

An **updated prospectus** is distributed along with the application forms. It is also published on the college website. The prospectus contains the details of programs offered, intake capacity, eligibility and procedure for admission to different programs, fee structure and scholarships available to students.

Notice boards: Admission related notices are displayed at prominent places on college campus as well.

To ensure greater transparency, the management's policy of not accepting any kind of donation is prominently mentioned in the prospectus and in the college premises. This counters any rumour regarding donation/capitation fee being accepted against admission.

The management, faculty members, parents, alumni, students, and well-wishers serve as ambassadors of the institution, effectively facilitating its publicity by word of mouth.

The University publishes the schedules for first year degree admissions in the print and electronic media. The College follows admission schedules notified by the university. List of admitted students are put up on the notice board for everyone to verify. On line admission and inspection by university ensures transparency. Second year and third year degree admissions are done in house. Vacancies, if any, are notified.

![V G Vaze College logo] V G Vaze College

Details of courses and intake capacity

Course Title	Capacity
BCom	480
BA	240
BSc	120
BSc IT	60
BSc BT	35
BAF	120
BBI	60
BMM	60
BMS	60
MCom	60
MSc Chem	10
MSc Botany	10
MSc Zoology	10
MSc Physics	04
MSc BT	20
MSc IT	20
PGDPCM	25

Transparency in Admission Process
The college strictly adheres to the rules of eligibility and the norms of reservation laid down by the University of Mumbai and the Government of Maharashtra respectively.

Admission schedule for Second year and Third year UG courses is announced after the declaration of results by the college. Applications from the students are invited with preference forms for the subject combinations. This allows the Admission Committee to prepare a foolproof merit list, which in turn, ensures transparency in the process of admission. Seats for various categories are filled as per the reservation policy. Cut-off for admissions to First Year in UG courses are published on the college website as well as on notice boards as per the schedule declared by the university.

2.1.2 The Process of Admission
Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programs of the Institution.

Being a highly reputed institution, our college is invariably the FIRST CHOICE of talented students.

The college follows the State/University guidelines strictly. Admission is strictly on MERIT and Reservation Policy of the government.
Viva voce is used for admission to PGDPCM.

All Ph.D. programs have PET (PhD Entrance Test) conducted by the university and a subsequent interview is conducted by the research centers of the college.

As per university guidelines, in-house students from Std.XII are absorbed in First Year BA, BCom and BSc and external students are admitted against vacancies.

Online Payment of fees avoids inconvenience to students and facilitates smooth transaction in the college office. This initiative has helped the college in daily reconciliation of accounts.

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programs offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

Minimum and maximum percentage of marks for admission

Class	2012-2013		2013-2014		2014-2015		2015-2016		2016-2017	
	Max.	Min.	Max.	Min.	Max	Min.	Max.	Min.	Max.	Min.
FYBA	83.67	50.00	84.72	63.00	94.60	75.23	95.80	76.00	95.20	78.60
FYBCom	84.83	82.00	86.57	86.00	93.80	82.80	94.80	89.60	96.80	57.38
FYBSc	94.00	63.83	94.24	66.00	95.00	65.54	96.40	70.00	95.17	75.08
MCom	---	---	84.00	79.00	82.86	71.71	86.08	77.33	86.57	74.86
FYBScIT	99.00	90.00	99.00	81.00	99.50	71.00	97.00	78.00	97.00	82.00
MScIT	---	---	75.00	57.00	78.70	63.55	87.87	61.68	82.26	59.48
FYBScBT	87.40	85.17	89.26	77.83	88.62	73.08	95.60	80.00	93.80	83.38
FYBBI	86.20	79.67	87.88	75.33	88.92	76.15	89.38	82.62	89.85	68.80
FYBAF	88.36	82.00	88.89	81.67	92.80	82.31	93.85	85.85	94.40	74.77
FYBMM	86.20	70.33	86.64	65.17	87.85	52.31	88.00	78.00	97.60	80.00
FYBMS	---	---	---	---	86.92	51.17	91.40	88.00	93.50	89.23

Comparison for BCom Course

College	2012-2013		2013-2014		2014-2015		2015-2016	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
MCC	88.17	85.83	87.83	85.00	87.00	84.92	87.60	84.77
DAV	79.60	38.80	87.80	39.60	85.60	41.20	84.60	47.60
Menon	82.33	60.00	88.00	60.83	82.76	60.00	83.84	60.00
V G Vaze	84.83	82.00	86.57	86.00	93.80	86.46	94.80	89.60

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If 'yes' what is the outcome of such an effort and how has it contributed to the improvement of the process?

Yes, the college has a well developed mechanism to review the admission process. An Admission Committee is constituted to allot admission duties and to supervise smooth and transparent process of admission. Grievances of students, if any, are directed to this committee. It gives students a hearing and solves the problems appropriately.

Besides this, the committee counsels students in making the appropriate choice of subject combination. Admission Committee reviews the admission process every year so as to make it student friendly. The outcome of review is 1) the setting up of a help desk manned by the Students' Council and NSS volunteers; 2) introduction of online payment system, and3) the use of admission software that generates merit lists and the analysis of student profile (total number of applications received, gender, number of students from reserved categories, migration profile and such other statistics)

2.1.5 **Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion:**
SC/ST
OBC
Women
Differently-abled
Economically weaker sections
Minority community
Any other

The admission policy of the institution is aligned with the reservation policies of the Government of Maharashtra. The college fills all the seats as per government's quota for reservation and provides fee concession as per directives of the government.

Following is the year wise break-up of enrolment reveals the fact that admission is provided for all these categories, ensuring college's initiative in this direction:

Aided courses

Year	General		SC		ST		NT		OBC		SBC		PH		Other States		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
2012 – 2013	496	1100	99	174	19	35	57	65	133	234	12	20	6	7	5	19	**827**	**1654**
2013 – 2014	446	1032	76	143	21	32	54	55	136	218	14	29	08	05	10	10	765	1524
2014 – 2015	461	969	128	204	27	29	55	44	126	232	16	30	10	02	16	05	839	1515
2015 – 2016	481	1015	131	177	30	29	66	52	134	219	15	27	05	--	01	01	863	1520
2016 – 2017	493	1026	106	171	28	33	60	66	129	219	14	27	--	02			830	1544

Self Financing Courses

Year	General		SC		ST		NT		OBC		SBC		PH		Other states		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
2012 – 2013	167	418	33	87	12	15	23	37	44	121	15	13	--	--	--	--	294	693
2013 – 2014	216	474	48	104	10	19	24	41	56	146	16	18	--	--	--	--	372	804

2014 – 2015	315	492	50	109	14	19	32	48	72	118	14	16	--	--	12	23	497	802
2015 – 2016	293	586	62	116	20	31	38	52	77	136	13	19	--	--	--	--	503	940
2016 – 2017	329	613	55	104	14	34	41	55	73	154	09	20	--	--	--	--	521	980

Student profiles reflect inclusiveness by the fact that all reservation quotas are filled.

More than 60% of the students are girls and this reflects the institution's commitment to girl child education and the fact that college has created a safe ambience for girl students.

2.1.6 **Provide the following details for various programs offered by the institution during the last four years and comment on the trends. i.e. reasons for increase/decrease and actions initiated for improvement.**

The college offers BA, BCom and BSc (Aided and self Financing) programs, PG Programs (MSc and M Com), PGDPCM and PhD.
- BA program at the entry level offers 40 subject combinations, at the SY level 28 combinations with 4 Applied Components (Advertising, Journalism, Market Research and Health Psychology) and at TYBA, 8 single major and one double major.
- BCom offers four applied components at TY.
- BSc offers 4 subject combinations at FY and 5 at SY and 5major at TY.
- Self financing programs: BAF, BBI, BMM, BMS, BSc BT and BSc IT.
- BMM offers two specializations at the TY level – Journalism and Advertising.
- Post-graduation programs – MSc IT by papers, MSc Chemistry by papers, MSc Chemistry by research, MSc Zoology by research, MSc Zoology by papers, M Sc Botany by Research, MSc Physics by research, MSc Biotech by papers and MCom.
- Ph.D programs in Biotechnology, Botany, Chemistry, Physics, Zoology, Economics, English and History.

In the last five years certain trends have been observed and the college took following initiatives:
- Increase in the demand for self financing courses- additional division for BAF and introduction of BMS course
- Qualitative improvement at the entry level in the BA program
- Qualitative improvement at the entry level in the BCom program
- Increase in the demand for BCom program
- Need for research centers in Humanities and Social Sciences – PhD centers established in History and English
- Need for more research centers in Sciences – PhD center established in Physics
- Increase in number of students desiring to pursue PG in Commerce – MCom center established

2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The college takes every possible step to make the college life an enjoyable experience for differently-abled students.

During and after admission process the type of disability of the student is identified and accordingly changes in time table and convenient class room arrangements are made.

An inclusive academic ambience in the campus is created by providing special attention to the needs of differently-abled students. Through the regular interaction with these learners the teachers try to identify their difficulties. Based on this exercise necessary measures are taken to help them in their endeavor to achieve good scores in examinations and to do well in extracurricular activities. Following initiatives are taken to address the needs of differently abled students:

Slow Learners:
- Remedial Coaching: they are encouraged to attend the remedial coaching programs
- Short Term Certificate Courses such as English Language Enhancement Course help them build confidence.
- Psychological counseling to cater the emotional, academic, and behavioral issues of these learners
- Mentor teachers' initiatives

Physically Challenged Students:
- Prompt assistance during and after the admission including the availability of wheel chair
- Provision of ramps, lift and a specially designed toilet block.
- The time table and class room allotment to minimize inconvenience.
- Separate and convenient seating arrangement during examinations
- Extra time is given as per the norms prescribed by the University of Mumbai.
- Writer is allowed wherever admissible.
- Teachers at an informal level help to identify writers

Visually Challenged:
VAZE VISION, center of E-resources for visually challenged learners is developed in Library with Non-Visual Desktop Access (NVDA) – a screen reading software, 24 Braille books, and 1379 audio visual resources
- Specially designed Certificate Course on Perfumery Evaluation by PGDPCM to enhance employability.
- Writer is allowed during examination
- Extra time in the internal and University examinations as per the university.

Other Efforts:
- Differently-abled students possessing skills in music, oratory, group

discussions are identified and they are encouraged to represent the college in the intercollegiate events. Dimensions, the intercollegiate festival provided a platform for a physically challenged DJ, Yash Gawde and a slow learner Pratik Tambekar was in the core committee in 2015

- Awards and felicitation for their achievements during annual prize distribution function
- Government policy of quota for differently in admission is adhered to
- The teaching staff and administrative employees at the Institution are also considerate and courteous to extend both academic and personal support to students.
- *Marathi Bhasha Ani Vangmay Mandal* in the College celebrated Mother's Day in the year 2015 by felicitating mothers of differently abled students

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the program? If 'yes', give details on the process.

Yes, the institution does assess the needs in following ways:

- **Admission Desk**
  Students while taking admission interact with the teachers where in they get suggestions for the choice of desired subject on the basis of their career plans.

- **Mentor system**
  College has a mentor system wherein each teacher is assigned a group of 40-60 students. A mentor generates a profile for every student assigned. The profile details educational attainment at school level, socio-economic background, special talents and personal goals. The mentor tries to look into and solve academic, psychological and economic issues of mentees. Economic issues are addressed by directing them to schemes such as SMAF and scholarships. Mentors also assess the skills and knowledge of the learners and suggest appropriate short term courses to bridge the gaps.

- **Classroom discussions**
  During initial lectures, teachers interact with the students to assess the learners' level of understanding and needs, and if required are advised to attend remedial, skill based and/or bridge courses.

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/Enrichment Courses, etc.) to enable them to cope with the program of their choice?

The college attempts to bridge the knowledge gap of the students with the help of the following courses

Sr.no	Title	Duration	Description
1	Remedial Coaching	Through the year	Conducted for slow learners, failures and the learners who want a revision
2	Computer course (Angular JS)	3 days	To improve programming skills

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3	English Language Enhancement Course (Bridge Course to overcome language barrier)	4 Months	Students who are weak in English are specially trained to speak and write better English.
4	Certificate Course in Quantitative Techniques (Bridge Course to overcome computational skill deficiency)	3 weeks	for students who plan to do Post-Graduation or further research or appear for MBA/MMS entrance exam etc.
5	Crash course in Econometrics (Bridge Course that addresses the deficiency in analytical skills)	3 weeks	For students who wish to do M.A. in economics
6	Soft Skills Enhancement Course	4 Months	To all undergraduate students of regular and self-financing courses which covers all modules on interview Skills, Presentation skills, GD and Resume writing that will enable students to enchance their employability.
7	Creative writing (Enrichment Course)	6 weeks	Open to all degree college students of regular and self-financing courses which will enable students to enhance their creative thinking.
8	*ModiLipi* (Skill Development Course)	10 weeks	Open to all college students and outsiders knowing Marathi that will enable learners to understand and translate administrative and legal documents written in Modi Script as used in Maharashtra.
9	Plant tissue culture and Greenhouse technology	7 days	Open to all degree college Science students and outsiders; enable them to propagate plant material by tissue culture which will further help produce plants for commercial or other reasons.
10	Animal tissue culture	10 days	Open to all degree college Science students; enable them to conduct testing on any cells lines for laboratory and research work.
11	Molecular Biology	1 week	Open to all degree college Science students; enable students to learn about plants at an advanced molecular level and about DNA-enabled technology.
12	Activities under Chemclub	Through the year	Activity group of the chemistry department with the main objective is to disseminate knowledge in the subject of chemistry by organizing lecture series, guest lectures and workshops for undergraduate and postgraduate students.
13	Internet based Education		College supports curriculum through the Internet. Eco Guide India is a site hosted for the purpose of providing online assistance to TYBCom students in economics.
14	Financial Skills Development	10 Days	To teach the practical applications of TY BCom Accounts curriculum
15	Certificate Course in Tally	10 Days	To teach use of Tally
16	Mushroom Cultivation	Weekend course for 3 weeks	To help the learners in self employment
17	Research Methodology	10 weeks	To help the learners acquire skills of data collection and analysis required in Social Science research

2.2.4   How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

Gender Sensitivity:
Almost 70% students in the college are girls.
Women Development Cell and the NSS unit of the college take initiatives in conducting various activities on gender sensitive issues. Experts and activists are invited to interact with the students and staff. International Women's day is celebrated in college wherein one lady staff member each from teaching and non-teaching is felicitated for their commendable job. Such efforts elevate spirit of womanhood.

2012-13
- Women Development Cell organized a Guest lecture on "Gender and Civil Society- A Case of Mumbai"
- WDC organized a guest lecture on "Women Wellness Initiative" speaker was from an NGO 'Young Concept'
- Volunteers participated in the poster competition on gender issues organized by University of Mumbai at R J College
- Essay competition on gender issues was organized for the students
- Volunteers collected and displayed newspaper clippings of the Delhi rape incident and of the actions initiated by the Government
- Interactive session was organized with the police department on Cyber Crimes
- NSS arranged a Guest lecture on 'Gender and Sexuality'

2013-14
- A short film about violence against women, '*Mulichya Jatila*' was screened, followed by discussion on the issues
- A lecture on "Women, their Rights and Related Laws"
- A special pledge was taken by about 250 students during NSS rally to show concern for the women's issues

2014 – 15
- A lecture on 'Gender Discrimination at Work Place'
- WDC organized a workshop on 'Digital Activism'. Resource persons from the NGOs– 'Point of View' and 'Safe City' interacted with students on women's safety and cyber crimes against women
- Gender Sensitization workshop was organized. The highlights were interactive sessions on opinion of each gender about the other, concepts related to genders, pros and cons of cultural conditioning about genders, and the need to overcome gender bias
- Short films on harassment of women and their safety were screened by Akshara Foundation

2015-16
- WDC and NSS unit jointly organized a demonstration on self defense by a trained NSS volunteer of the college
- PSI from Navghar Police Station, Mulund shared their views and experiences on women's safety

Environment:
- College conducts Green Audit (internal as well as external)
- College has appointed CLEANSCO, a housekeeping agency to keep the campus clean and for proper disposal of waste materials
- As a part of solid waste management, students and faculty follow the norms of waste segregation into dry and wet waste
- Biological hazardous waste is handed over to Enviro-Vigil, an NGO working in the field of safe disposal of such materials
- NSS Unit of the college celebrates Earth Day and Water Day, wherein through street plays, rallies, campaigns, poster competition, the volunteers sensitize the community

Inclusivity:
- College has a Special Cell formed as per the University directives to promote inclusivity
- It organizes an orientation program for the reserved category students, mainly to make them aware of the functioning of the Special Cell and it helps them to know the benefits they can avail from the college/Government
- The college conducts UGC Sponsored Remedial coaching for SC/ST/OBC/non-creamy layer and academically weak students free of cost
- Through UPSC MPSC Cell, coaching for UPCS MPSC preliminary examination is conducted free of cost for reserved category students
- Students Mutual Aid Fund runs a Book Bank Scheme for economically backward students
- The college offers financial assistance to such students and forwards their application to the State Social Welfare Department for grant of scholarship/financial support
- Regular notification of welfare schemes announced by the Government and University with the help of notice boards and college website
- Through the activities and competitions like debate, elocution, essay, paper presentation, attempts are made to sensitize students on various issues pertaining to gender, environment and inclusivity
- Celebration of Constitution Day on 26 November
- Student Council celebrates rose day and the proceedings of sales are given to needy non teaching staff members
- Special Cell, as a part of Pearl Jubilee celebrations, organized a one -day state level seminar on 'Inclusive Growth in India' in 2014. The seminar had discussions on the models of inclusive growth, liberating impact of technology, challenges and prospects of inclusive growth. The seminar was inaugurated by Dr. Bhalchandra Mungekar Member, Rajya Sabha. Mr. Kumar Ketkar, a senior journalist was the Guest of Honor

- College celebrates *Sneha Mela* where teaching and non teaching staff members come together and participate in activities like dancing, singing and poetry recitation. This promotes institutional oneness and encourages the staff to interact without status barrier

The college has a significant diversity in student and staff community, with varied religious and ethnic backgrounds. This diversity promotes cross cultural exchanges, tolerance and inclusivity. The college does not have any polarization along the axes of class, caste, language or religion and hence minorities and underprivileged students and staff enjoy a democratic space.

2.2.5 How does the institution identify and respond to special educational/ learning needs of advanced learners?

Advanced learners are identified using three important parameters:
- Entry level academic record
- performance in the class tests and semester end examinations
- interaction in the class room

Post identification, the following initiatives are taken up in order to meet the needs and expectations of advanced learners:
- Scholar card is issued to the top 10 students from each class which allows them to borrow additional books
- Free coaching for PG entrance examination: Physics and Chemistry
- Encouragement and assistance are given to participate in internal and inter-collegiate competitions and research conventions such as Avishkar
- Opportunities are given to work as members and organizers in various activity groups such as Vaze Research Group, English Literary Association, Science Association and Chem Club
- Faculty collaborates with promising students in writing research papers.
- Display of their photographs in the College Magazine and College Website to motivate them and also to motivate the other students to take example of these students as peer role models
- Campus Interviews by Placement Cell to give them thorough idea about the job market opportunities. Lectures and workshops are organized to groom them in resume writing, group discussions and interview techniques
- Study Circle of the final year BSc students preparing for competitive exams, meets once a week in the presence of the instructor and the session involves extensive problem solving
- Workshops for UG & PG students on a regular basis are organized in association with Royal Society of Chemistry (West India section) and Chemical Research Society of India(CRSI). On an average four workshops are held in an academic year – 2 UG & 2 PG
- Eminent scientist and academicians from IIT, TIFR, and ICT deliver lectures followed by extensive problem solving sessions
- Yearlong lecture series for NET- SET was organized in 2012-13. Around 70 students registered for the same. Lectures by faculty from IIT, University of Mumbai and ICT were held once a week for 3 hours followed by problem solving sessions

- Students are encouraged to take up summer courses and internship. They are given recommendation letters and are granted leave of absence
- Activity groups like DEQ, English Literary Associations, *Hindi Sahitya Parishad,* Info- Tech Association, *Marathi Bhashaani Vangmay Mandal*, *Mayur*(Magazine), Science Association, Veethee and Vaze Research Group provide platforms to the advanced learners to sharpen their talent and skills
- Scholarships are given to students to motivate and recognize their achievements at the Annual Prize Distribution Function

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the program duration) of the students at risk of dropout (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

The college has a negligible dropout rate and it is an indication of effective support system available for disadvantaged learners.

Attendance record and the performance of each learner are considered as the relevant parameters in this regard. The data is analyzed by the respective departments, mentors and examination committee and academically weaker students including those mentioned in the question who are at the risk of dropout are identified. The identified students and their parents/guardians are counseled. Mentors play an important role in this process.

In case of economic problems becoming a reason for dropout, the students are provided necessary financial aids such as fee waiver, fee payment in installments and 'earn while you learn' scheme of the college. Endowments from various stakeholders including teachers and alumni provide financial assistance. The Book Bank scheme of the SMAF provides text books to economically weaker students. At an informal level, copies of text books received by the teachers are given to students who cannot afford to buy them.

As a regular practice, teachers sponsor needy students, but prefer anonymity in this regard.

2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blueprint, etc.)

- The College has an Academic Calendar Committee which prepares the academic calendar at the commencement of the academic year
- There are three major components of the academic calendar:
  - Master time table for all the classes
  - Calendar of activities including sports and cultural events
  - Tentative dates of commencement of examination
- A broad schedule of working days, examinations and activities is made available to the faculty through teachers' diary

- The Academic Calendar Committee prepares the master time table and the departmental time tables
- Each department prepares time tables of individual faculty members
- The Class time-tables are accessible on the college website at the beginning of the every semester and academic year
- Class room time tables are also displayed outside every class room
- Teaching plans are developed at the departmental level taking into consideration the objectives of the curriculum and the number of teaching days available
- Teaching plan is reflected in the teachers' diary
- Exam committee prepares the examination blue print at the beginning of the academic year
- This blueprint includes schedule for both internal evaluation and semester end examinations

2.3.2   How does IQAC contribute to improve the teaching–learning process?

The IQAC plays an important role in accomplishing the vision and mission of the college. It catalyzes quality enhancement in the teaching-learning process. It was established with the objective to build and ensure quality culture aimed at all round excellence. The IQAC aims at continuous improvement of institutional quality and achieving academic excellence by regular monitoring of quality.

- IQAC provides the guidelines for quality benchmarks and parameters for the various academic and administrative activities by the institution. IQAC has spelt out graduate attributes of the college and the departments are directed to define their learning outcomes in tune with these attributes
- IQAC conducts orientation for the entry level student and this initiative enables the students to be aware of the learning opportunities and quality culture in the college and the examination pattern
- The IQAC analyzes the feedback obtained from the students on faculty through Performance Appraisal of Teachers by Students (PATS) and on infrastructure. Based on this analysis, IQAC suggests suitable steps for improvement
- IQAC organizes annual academic audit, activity groups audit and administrative audit. External experts are invited to conduct Academic audit in which every department makes a presentation of their academic achievements, teaching methods adopted, SWOC analysis and the future plans. Recommendations are discussed with the Principal, HODs, Staff and other stake holders for their effective implementation
- IQAC coordinates CAS procedures and scrutinizes all applications and helps the teachers in preparing well organized PBAS files
- IQAC has organized national conferences on (i) Quality Education: Revised Methodology in Accreditation and Assessment and (ii) Graduate Attributes
- IQAC has initiated skill based and short term courses to bridge the skill gaps of learners

2.3.3 **How is learning made more student-centric? Give details on support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students.**

The teachers largely follow interactive and participative teaching-learning process. Some of the methods used are Assignments / Research Projects, Students Seminars, Viva Voce, Open House, Sharing Ideas and Experiences, Role Play, Debate, Elocution, Quiz , Students' Presentations, Tutorials, Demonstrations, Simulations, Industrial Visits, Problem based Learning, Case based Learning, Skill based learning , Resources based (DVD, ICT, Multimedia, e-resources) learning and Remedial / Advanced-learners' Programs.

The learning is made student centric by promoting interactive learning, collaborative learning and independent learning. Interactive learning is accomplished by sharing of resources online and by effective use of social networking such as WhatsApp groups and Facebook to disseminate information and for discussions. Google Drive is effectively used to share learning material with the students. NPTEL lectures on Nuclear Physics, Quantum Mechanics, Classical Mechanics and Mathematical Physics have been accessed. Students are guided to use OER such as Khan Academy and open courseware of MIT, Boston. Ex-Students have created various links to study material and libraries worldwide for their alma mater.

Collaborative learning practices like group projects, study circle and research scholars' meet are used in some departments. Independent learning is promoted by assigning the learners projects and presentation as parts of internal assessment. The college has the necessary infrastructure to accomplish these student-centric learning approaches.

Laboratories provide hands-on learning opportunity for the learners. The college has state of the art labs for all science departments. Biotech Lab, Cosmetology Lab and the Scientific Center Labs are the highlights. These labs provide facilities for basic and advance research for both students and faculty.

Other than these labs, college has established other labs and resources that provide effective opportunities of independent and collaborative learning avenues which are not easily available in conventional classrooms.

- Language Lab: Facilitates independent language learning without the presence of a teacher. It also facilitates interactive learning as computers and software used in the program enables access, sharing, and WAN-enabled communication between the learners and instructor.
- Commerce Lab: Enables learning of accounting practices leading to financial skills development.
- E-Learning Lab: Facilitates online exams and access to online courses.
- Adequate collection of Reference Books, resources like online library subscription (INFLIBNET) to facilitate interactive learning.
  Teachers also use diverse methods of teaching such as Group discussion, Role plays and Case studies to promote student centric learning.

2.3.4 **How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?**

The institution nurtures critical thinking, creativity and scientific temper through both academic engagements and co-curricular activities. The teaching modes are highly interactive where discussions and debates are constantly encouraged. Various learning methods like quiz, essay competitions, group discussions, seminars, project works, field surveys, poster presentations and science exhibitions are used from time to time.

Following is the list of initiatives taken by the college in this regard:

1.	**Critical thinking**	a. Project presentations b. Industrial Visits c. NSS Camps d. Paper presentations/case studies e. Lecture Series f. Social Surveys/campus surveys g. Workshops/ Seminars /Conferences h. Certificate Courses i. Activities of DEQ
2.	**Creativity**	a. College Cultural Fest – Dimensions b. Annual Day Celebrations c. Teachers' Day Celebrations d. Poetry Recitation/ Elocution/ Debate Competitions e. Literary Associations' Activities f. Drama Circle –*Vithee* g. College Magazine – *Mayur* h. Film festivals i. Participation in *Avishkar* j. Participation in University Youth festival and other inter collegiate festivals
3.	**Scientific Temper**	a. Guest lectures by eminent scientists b. Research projects c. Workshops and certificate course in Research Methodology d. Science Day Celebrations e. Research Scholars' Meet f. Participation in *Avishkar* g. Science Exhibition 'Eureka' h. Street play/ skit on Science in everyday life i. NSS activities on eradication of blind faith and superstition j. Vaze Research Group activities

In some activities such as Vaze Research Group, DEQ and *Avishkar* the above mentioned skills overlap and they are immensely useful for the students.

2.3.5 **What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning-resources from National Program on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NMEICT), open educational resources, mobile education, etc.**
- The college has an E-Learning Lab

- Teachers use ICT to access and to disseminate the resources from NPTEL and OER
- The Library subscribes to the N-LIST program of INFLIBNET
- All Faculty members and research students have access to online resources such as JSTOR and Pro Quest through N-LIST
- A-VIEW software was installed in the staff room desktop as well as few other computers in the college by a team from Amritha University, Kerala. It enables the college to webcast various online programs and lectures held by the University of Mumbai. Students and teachers can also interact with the speakers in such sessions

2.3.6 How are the students and faculty members exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

Experts from industry, academia and social work are invited regularly to deliver lectures. Seminars and workshops of national and international levels are also organized every year. Students are encouraged to learn from a combination of traditional class room lectures and online resources, to promote blended learning. These methods enable the students and faculty members to be aware of advanced level knowledge and skills. Each Department is encouraged to conduct these activities. Faculty members are encouraged to take part in Orientation Programs, Refresher Program, Faculty development program and short term courses for the same purpose.

Following are some such activities conducted in the last four years:

Sr No.	Activity	Details
1	Talks and Guest Lectures	Speakers: 1. Dr. Shankara Narayanan, Honorable Governor of Maharashtra 2. Padma Vibhushan Dr. Anil Kakodkar, Chairman, AEC, Govt. of India 3. Dr. Bhalchandra Mungekar, Member, Rajya Sabha and Planning Commission 4. Dr. Narendra Jadhav, Member Planning Commission 5. Dr. Raghunath Shevgaonkar, Director, IIT Delhi 6. Mr. Kumar Ketkar, Senior Journalist 7. Mr. Hussain Zaidi, Renowned Author 8. Mr. Govind Nihalani, Renowned Film Maker 9. Dr. Rajan Welukar, Vice Chancellor, University of Mumbai 10. Dr. Sanjay Deshmukh, Vice Chancellor, University of Mumbai 11. Prof. H. Devraj, Vice Chairman, UGC 12. Dr. Muhammed Aslam, Advisor, DBT 13. Dr. Indu Shahani, Sheriff, Mumbai 14. Dr. Ganapati Yadav, Vice Chancellor, ICT, Mumbai 15. Dr.Prabodh Chobe, Director,YCMOU 16. Mr. Kamlesh Mehta, Arjuna Awardee and International Table Tennis Player 17. Mr. Henry Menezes, former national football player, CEO of Western India Football Association 18. Pandit Ronu Majumdar, internationally renowned flautist 19. Dr. Vivek Sawant, MD, MKCL 20. Dr. Sanjay Oak, Vice Chancellor, D.Y. Patil Deemed University 21. Mr. Kumar Nilendu, GM - Development

2	Conferences and Seminars	1. Two day national conference on 'Quality Education: Revised Methodology in assessment and Accreditation'
		2. National conference on Cosmetology and Perfumery 'PICASSA II'
		3. National Conference on 'Revisiting World War I'
		4. The 37th All India Botanical conference on Biodiversity and Climate Change in collaboration with the Indian Botanical Science Conference
		5. National Conference on 'Emerging Trends in Chirality, Medicinal Chemistry and Perfumery'
		6. National Conference on 'Child Labour: Issues and Challenges'
		7. National Conference on 'Ease of Doing Business'
		8. International Conference- 'PICASSA III'

Many workshops were also organized.

2.3.7 Detail(process and the number of students\benefitted)on the academic, personal and psycho-social support and guidance services (professionalcounseling/mentoring/academic advises) provided to students?

The college has developed well defined systems for academic, personal and psycho-social support and guidance services.

Mentor System:

A committee looks after the process of mentoring of students. It assigns 40 to 60 students to every faculty member. In the first meeting the mentor generates the data of each mentee student regarding his/her personal information, socio-economic background and academic track record. Mentors establish a rapport with the students so that they freely discuss their academic and personal problems. Mentors meet the mentee periodically to address their concerns and if required he/she is referred to the professional counselors to solve personal problems and is advised to take remedial coaching for academic problems. All the students are covered in this program.

Professional Counseling:

The College has a dedicated counseling cell which takes care of student's issues at academic and individual level and prepares them to face daily challenges. A professional counselor made available in the college on Wednesdays and Thursdays. Students are given information about the counseling cell in the orientation program. Either students approach the counselor on their own or Mentors/ Subject teachers advise them to meet the counselor. The counselor interacts with the student, understands the problem and decides the type of counseling required. Students come for a follow up on a regular basis. All sessions are confidential.

Number of students benefited is as under:

Year	No. of Students Benefited
2012-13	12
2013-14	08
2014-15	08
2015-16	20

The College has a Special Cell which counsels students belonging to deprived sections of the society on matters such as financial support, scholarship and equal opportunity. Special cell organizes an orientation program in which students are given information about various social welfare schemes available and it facilitates the process of availing them.

2.3.8 **Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?**

Following is the list of innovative teaching methods adopted by the faculty and the impact of such innovative practices on student learning.

Innovative teaching methods adopted	Impact on Student Learning
Multimedia Learning process (Use of internet, video, PPT, animation)	Increase visual impact and facilitates quick understanding of the topics. Edutainment keep s learners interested.
Industrial visits/ Field visits	Helps to gain first hand information regarding functioning of industries Also helps to understand the do's and don'ts of the industrial practices
Group projects	Inculcates the spirit of team work and understand the ways of improving efficiency by working collectively.
Process Orientated Guided Inquiry Learning (POGIL)	Promotes group learning and creates a learning cycle of exploration, concept invention and application. Makes learning co-creative. Develops skills such a critical thinking, problem solving and communication through co-operation and reflection. It leads to in-depth understanding of concepts.
Mind Mapping	Students learn to structure information and it helps in better analysis and understanding of concept through graphically represented ideas.
Scenario analysis	It encourages students to analyze real life situation and carry out independent research outside the lecture environment

The College extends full support and encourages the use of such teaching practices by its faculty.

Projectors, laptops and Wi-Fi facility are provided to various departments. State of the Art Laboratories, GD Room and a conference room are made available for these activities.

An Auditorium and a mini-auditorium with internet connection are made available for Multimedia learning process.

2.3.9 How are library resources used to augment the teaching- learning process?

Faculty members regularly provide the learners with the list of reference books and this practice encourages students to use library resources extensively.
The dedicated reference section in the library provides materials that supplement lectures and text books.
The library has a vast collection of print resources that include text books, reference books and books for general reading, bound periodicals, journals, magazines and newspapers. The library also has a collection of CDs and DVDs which includes documentaries, interactive educational resources with accompanying books and periodicals in addition to relevant supporting / supplementary independent items. The collection also includes movies and documentaries prescribed by the University of Mumbai for the courses in Political Science and Mass Media.

The library collection includes:
1. Books > 40,000
2. Periodicals - 126 (Journals=71, Magazines=55)
3. Newspapers: 19
4. Resources for visually challenged: Braille Books – 24 andCD/DVDs – 73
5. CD-DVDs - 1266
6.Maps and Globe

The Library subscribes to the N-LIST program i.e. (National Library and Information Services Infrastructure for Scholarly Content) of INFLIBNET. This program gives access to more than 6,000 e-journals and more than 1,35,000 e-books. It covers areas like humanities, social sciences, physical sciences, chemical sciences, biological sciences, medical sciences, mathematical sciences, to mention a few.

In addition to these facilities, library also provides Book Bank Scheme under Students Mutual Aid Fund (SMAF).

Some departments conduct library orientation for the students regarding the resources available and the process of accessing them. Departments also have their collections of books which are made available for the learners.

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.

There are not many challenges in completing the curriculum. Teachers follow the Academic Calendar and the teaching and extra & co-curricular plans strictly. Not many days are lost due to any agitations by faculty/staff or students. Whenever teaching days are lost due to unforeseen circumstances such as heavy rains or disruption of public transport, efforts

are made to overcome these challenges by arranging extra lectures and practicals.

Teachers are required to maintain a diary indicating the syllabus covered and the examinations held. This brings better accountability on the part of faculty members.

When teachers are on long leave or superannuate, replacements are made promptly so that teaching continues uninterrupted.

When a faculty member is on leave, his/her lectures are adjusted at the departmental level.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

Students feedback, Teachers' Diary, Feedback Boxes, Parents-Alumni feedback provide inputs for monitoring and evaluation.

The institution uses the organizational hierarchy to monitor and evaluate the quality of teaching-learning.
- The college encourages faculty members to engage in self-monitoring by taking lectures regularly, maintaining a record of the same in diary and by taking students' feedback informally
- Departmental meetings and HOD meetings have discussions on quality of teaching- learning
- IQAC monitors the quality of Teaching-Learning process with the help of Performance Appraisal of Teachers by Students (PATS).
- IQAC conducts academic audit every year to evaluate the quality of teaching-learning

2.4   Teacher Quality

2.4.1   Provide the details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

Recruitment and retention are at the core of Human Resource practices in the college. Various strategies are adopted to ensure quality in faculty recruitment and to retain highly qualified, competent and experienced faculty.

The process adopted in recruitment:
The college intimates the Joint Director of Higher Education and the Special Cell of the University about the vacancies. Based on the permission of these bodies, college publishes an advertisement inviting applications for the concerned posts.

After the scrutiny of the applications, qualified candidates are invited to appear before a selection committee consisting of the Principal, university

nominee, subject experts, a government representative and a management representative.

Comprehensive Strategies adopted in faculty recruitment:
- Transparency in recruitment is ensured in the form of advertisement of the posts in the leading newspapers. These advertisements also help the college to cast a wide net and to select from a large pool of talented and promising candidates
- Composition of a competent panel of experts, as directed by the university, for recruitment interviews
- Reasonably attractive pay package offered even for ad-hoc and temporary faculty
- Selected qualified (one faculty per course) self-financing faculty members are offered the sixth pay
- Ensures inclusivity by adhering to all reservation policies and roster
- All the recruitments are on the basis of the guidelines laid down by the UGC, Government of Maharashtra and the University of Mumbai, to ensure validity and approval
- Detailed face-to-face interviews to assess the potential, competence and knowledge of the candidates
- In case of a delay in obtaining NOC from government, ad-hoc appointments are made so that the teaching-learning process is not affected
- Appointment of professionals with industry and corporate experience as visiting faculty

Outcome of Recruitment strategies:
- Good number of applications received for both approved and ad-hoc vacancies
- Unbiased selection of candidates by the panel

Strategies adopted for faculty retention:
Staff retention depends on factors such as motivation, compensation, challenges in the job, future prospects and opportunities to improve skills. The following strategies adopted are based on the awareness of these factors:
- Encouragement to present research papers at various conferences and seminars
- Initiative in organizing seminars and conferences
- Efforts to provide the faculty higher challenges by starting postgraduate and PhD programs: College recently started M. Com. and has research avenues available at the PhD Research centers in Economics, English, History, Bio-tech, Zoology, Botany, Chemistry and Physics.
- Encouragement to enroll for doctoral degrees and to avail leave under the UGC's Faculty Development Program
- Introduction of certificate courses to provide the staff the satisfaction of getting involved in skill-based programs
- Updating of infrastructure and facilities such as computers, internet, laboratories and libraries to keep the staff engaged in research along with teaching
- Participatory management policy that obtains teachers feedback in staff

meetings initiated by the Local Management Committee and using them in decision making. This motivates teachers.

- Creation of good learning/ research ethos to keep the entry-level and midcareer faculty members interested

Outcome of Strategies adopted for faculty retention:
- More than 10 faculty members have finished their PhD and 6 are currently registered in the PhD centers of the college
- No faculty has left due to job dissatisfaction
- Only reason for a faculty member to leave the college is a better career visibility (as a principal in another college or as a professor in the University)
- Many faculty members have registered for MPhil and PhD after joining the college
- Willingness of those who retire from the college to serve the college as visiting faculty. As many as 5 faculty members who have retired recently continue as visiting faculty
- College is able to retain ad-hoc and visiting faculty. Around 15 such faculty members have completed more than five years in the college
- College is able to provide ample psychological/ intellectual rewards for new recruits in the form of job satisfaction, research opportunities, high-stakes environment, research guides and the opportunities for overseeing extracurricular activities
- College is able to create leadership and growth opportunities for the faculty

Strategies adopted to meet the changing requirements of the curriculum:
- Faculty members are encouraged to attend orientation programs, refresher courses and short terms courses
- They are motivated to attend workshops on revised curriculum
- College organizes workshops on revised curriculum
- College hires the services of professionals, guest speakers and visiting faculty from other colleges to meet this demand

Outcome of Strategies adopted to meet the changing requirements of the curriculum:
- ICT based teaching methods are adopted by teachers
- Students benefitted from wider exposure

2.4.2 **How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programs/ modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.**

The college has been at the forefront in designing and developing new programs in modern and emerging areas such as Biotechnology and Information Technology. The University of Mumbai identified the infrastructure of the college and its faculty expertise as important components

for the development and delivery of curricula for Biotechnology and Information Technology at under-graduation and post graduation levels. With this legacy, the college never really faced any dearth in competent faculty in Biotechnology.

- The reputation of the Biotech center attracts teacher-aspirants
- In addition, entry level faculty members are sent for training/conferences/short term courses to attain knowledge and skills to impart disciplines in emerging subjects
- Experts from industry and academic institutions are also invited on a part-time/short-term/visiting/guest lecture basis. The library, laboratory and infrastructural resources are supplemented and enriched
- Hiring the services of Adjunct professors and retired faculty is another practice
- During the last 4years,some of these efforts were put to use in strengthening faculty resources in new programs like Bachelor's in Mass Media, Cosmetology, Bio-technology, Bachelor's in Management Studies and IT.As a result of these initiatives the college has been able to effectively retain top teaching talent in the emerging areas mentioned above

2.4.3 Providing details on staff development programsduring the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

- Conferences and workshops were conducted in various subjects and with interdisciplinary scope (on Child Labour, Ease in Doing Business, World War-I Centenary) to encourage the faculty members to participate in them
- In-house magazine *(Mayur)* carries articles and survey reports prepared by the faculty
- Workshops on revised Syllabus (Physics, Chemistry, Psychology, Chemistry, English, History, BMM) were conducted
- Faculty members are encouraged to write textbooks and workbooks
- Faculty members contribute to the making of the resource material for the Institute of Distance Learning, University of Mumbai (IDOL)
- Use of Open Education resources for effective sharing of resources; learning materials are made available in the public domain

Staff Development Programs:

(a) Staff development programs of the last fouryears:

Staff Development Programs	Number of faculty Nominated
Orientation programs and Refresher courses	19
POGIL workshop	25
Staff training conducted by the university	32
Short term courses By ICAI	55

b) Percentage of faculty participated in Staff enrichment programs (Outcome of the practices)

Particulars	Number ofFaculty
Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies (include CA)	214
Participated in Workshops / Seminars /Conferences recognized by national/international professional bodies	332
Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies	182

2.4.4 **What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programs, industrial engagement etc.)**

The College provides a series of facilities and support measures to motivate faculty members; they are:
- Academic mobility in the form of in-house PG Teaching (Biotech, IT, MCom, Chemistry, Zoology, Botany, Physics, PGDPCM)and faculty members are encouraged to take up PG teaching at other centres (University of Mumbai, Jhunjhunwala College, RKT College, B N Bandodkar College, Momin College, CKT College).
- College provides opportunities in research and consultancy in collaboration with BARC (Homi Bhabha Center) and Institute of Chemical Technology.
- College facilitates industry engagement through SRC, Advanced Chemistry Laboratory and Perfumery and Cosmetology Laboratory.
- Collaboration: interdisciplinary conferences which enable the faculty to learn from colleagues
- Field Trips, Industrial Visits and Study Tours that take the faculty and students out from teaching-learning routines.
- Reshuffling of committees once in three years
- Personal learning networks: use of internet to reach out to a wider circle of research scholars and learners
- Encourages and supports faculty for obtaining higher qualifications such as MPhil and PhD
- Financial assistance to the faculty for organizing and participating in conferences, Seminars and workshops at national and international level.
- Publication of the Research Journal, 'Vaze Vista' from March 2016

Outcome of the above initiatives:
All these strategies resulted in in-depth learning, greater engagement and higher satisfaction amongst faculty members. A healthy research culture and interdisciplinary research engagements are the most direct outcomes.

Following table is a reflection of the positive effects of teacher recharge strategies:

1.	Number of Teachers with PhD	41
2.	Number of faculty members pursuing PhD	10
3.	Number of Teachers availed Study Leave to pursue PhD	05
4.	Number of PhD Guides	19 + 4
5.	Number of PhD awarded under the guidance of faculty members	18
6.	Number of PhD students under their supervision	46
7.	No. of research papers published in peer reviewed journals	236
8.	No. of research papers presented	182
9.	Textbooks published	16
10.	Edited Books	01
11.	Major Research Projects Completed / ongoing	12 + 1
12.	Minor Research Projects Completed / ongoing	09
13.	No. of Seminars/Conferences/Workshops Organized	133

2.4.5 Give the number of faculty who received awards/recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/ achievement of the faculty.

Vaze College provides a stimulating academic and research environment which have resulted in the following awards of excellence

Sr. No.	Name of the Faculty	Award/recognition	Institute
1.	Dr. Lakshmy Ravishankar	1.First Indian to be nominated 175 faces of Chemistry project by Royal Society of Chemistry, 2015 2. Indian National Science Academy INSA award	Royal Society of Chemistry, U K
2	Dr. Lina Thatte	Late Prof. Omprakash Best Paper Award, 2015	Delhi School of Professional Studies and Research
3	Dr. Sonali Pednekar & Ms. Alka Kelkar	Best Paper Award	National Conference on Quality Initiatives and Benchmarking in Higher Education Institutions at Surana College, Bengaluru.
4	Dr. Sonali Pednekar	PostDoctoral Research Fellowship	Sir. Dorabjee Tata Fellowship, Heras Institute

The college provides a democratic space for the teachers to pursue their academic dreams. Institutional culture is rich with research friendly atmosphere, financial assistance and encouragement for further studies.

2.5   Evaluation Process and Reforms

2.5.1   How does the Institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation process?

- Evaluation process of the college is disseminated through the college prospectus acquired by all those seeking admission
- At the start of academic year, the college organizes orientation program for First Year Degree students. In this orientation program, members of examination committee explain the evaluation methods prescribed by Mumbai University and adopted by the college
- Parents too are invited to attend the orientation program, so as to get complete information about evaluation process.
- During lectures, teachers explain the format of question papers, scheme of marking, pattern of practical examination and evaluation methodology.
- College examination committee displays different circulars, ordinances, guidelines, examination schedules and notices related to the college and university examinations on the examination notice board, LCD display board and college web site
- Schedules of Internal class-tests, assignment submissions, semester end examinations, ATKT   (Allowed To Keep Terms) examinations, re-examinations, viva voce and presentations are displayed on exam notice board besides notice boards at individual departments
- For faculty members, notices and schedules are displayed on examination committee board located in the staff common room
- All examinations are conducted as per university guidelines
- College library keeps previous years' question papers of all subjects and students can refer to these papers for practice of solving questions/ understand the pattern
- Examination committee members attend workshops held at the University and other colleges to keep abreast about any changes in the evaluation pattern
- Faculty members also attend such subject related workshops
- Changes in the evaluation pattern are explained by the examination committee to the faculty members for which special meetings are held

2.5.2   What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

Evaluation reforms initiated by the University:
- University of Mumbai introduced credit based grading system for all the degree examinations w.e.f. 2011-12. Under the Credit Based Grading System (CBGS) total credit value shall be 120 credits for all the UG programs across the faculties. The credit value shall be 80 credits for PG programs under the faculty of Arts & Commerce and 96 credits in the case of faculty of Science

- The semester wise credit based grading system consists of internal assessment of 25 marks and a semester end examination of 75 marks from the academic year 2014-15
- Till the academic year 2013-14, the internal assessment of 40 marks and semester end examination of 60 marks was held as per university pattern.
- The internal assessment is defined as the assessment of the learner on the basis of continuous evaluation as envisaged in the credit based system. It is conducted at the college level for semester I to semester VI. It is for 25 marks and includes i) one class test of 20 marks and ii) Active Participation in Class Instructional Deliveries (APCID) and Overall Conduct as a responsible student, Manners and Articulation and Exhibit of leadership qualities in organizing related academic activities (OCMAE) of 5 marks
- Semester end examinations is defined as the assessment of the learner on the basis of performance in the semester end theory/ written examination. For semester I to semester IV semester end examinations are conducted by the college, whereas for semester V and semester VI examinations are conducted by the university. It is for 75 marks
- A student must obtain minimum of 40 % marks i.e. 10 out of 25 in the internal assessment and 30 out of 75 in semester end examination separately
- University has eliminated the internal assessment for semester I and semester II w.e.f. academic year 2016-17. There will be only one semester end examination of 100 marks for all the first year degree courses at the end of semester I and semester II. The same pattern of evaluation will continue for second year and third year in course of time for all the regular students. However, for the Self Financing Courses, the earlier pattern of 25 marks internal and 75 marks external examination pattern is retained
- For the students who remain absent for regular semester examination on medical ground, for participating in sports, cultural or any other activity representing the college and any genuine reasons permitted by the principal , absentee examination is conducted
- W.e.f 2016-17, there will be no additional examination for the failure students immediately after declaration of semester results. For failures of sem I/II/III/IV, the ATKT exam is conducted in September /October and February/ March only, along with regular examination of every semester.
- Practical and theory examinations of semester V and VI of TYBSc Applied Components is now conducted by the college as against the earlier practice of University conducting them.
- College is a recognized CAP center for the TYBCom, TYBSc Chemistry, TYBBI, TYBAF, MCom university examinations, as a part of decentralization of assessment initiated by the university. TYBSc IT answer books are assessed online, in accordance with the university reform.
- As per the university reform ensuring greater transparency, after the result declaration, a student can apply for photo copy of their answer papers of all the regular semester end and ATKT examinations by paying a fee of Rs 100. A student can also apply for revaluation by paying the charge of Rs 250. An external examiner is invited to decide whether revaluation is

required or not. If the external expert recommends revaluation, an external evaluator is invited for reassessing the said paper. After the revaluation, a revised mark sheet is given to the students as per the university guidelines.

Evaluation reforms initiated by the Institution:

- Examination calendar is prepared in the beginning of every academic year by the college. All examination related information is given there in.
- College has developed examination software to carry out various tasks such as preparing examination blocks analysis, generating supervision charts, preparation of examination block reports andstudents' attendance reports
- College has purchased examination software to prepare results of semester I to semester IV exams
- Centralized Assessment Program (CAP) is implemented. A separate CAP room with a CAP coordinator is available. Also full time administrative staff members are allotted for the CAP room management. CAP is open on Sundays and public holidays too
- The internal class tests for 20 marks are conducted in a centralized manner
- To ensure objective and unbiased evaluation, the answer papers are masked
- All question papers are printed in-house resulting in cost saving and absolute confidentiality
- All the results are declared on time, as per schedule

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

- As per University guidelines, the college has constituted examination committee for the smooth conduct of examination and evaluation. Evaluation related reforms are implemented at the college level by the committee
- The committee checks University website regularly for the updates related to examination
- The teachers who attend Board of Studies meetings also inform the examination committee regarding the reforms
- Members of examination committee attend the meetings or programs held in the university regarding evaluation reforms
- Evaluation related reforms are communicated to the staff members by conducting a meeting
- Orientation programs are conducted for the newly appointed teachers for making them aware about the supervision process, paper setting and evaluation rules
- The students are informed about the reformsthrough orientation program, notice boards and website
- College has made provision of a CAP center, as university guidelines

2.5.4 **Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.**

The college strictly adheres to all the university guidelines regarding formative and summative assessment of the students. Following are the details of the initiatives which have positively impacted the system of student evaluation.

Formative evaluation:
Formative evaluation is multi-modal assessment and it ensures sustained interest in the program. It is an effective tool for the teachers to assess the students' acquisition of knowledge and skills on a continuous basis.
- Formative evaluation is carried out in the forms of assignments, presentations, viva voce, poster presentation and quiz thereby increasing the use of library resources
- Study tours and project-linked Industrial Visits are conducted. These give exposure to the students to the world outside the college

Summative evaluation:
As per university guidelines, students are evaluated in every semester to understand their acquisition of knowledge. Following examinations are conducted by the college for this purpose-
- Internal class test out of 20 marks for semesters I, II, III, IV V and VI
- The remaining 5 marks of the internal assessment are given to the students on the basis of their attendance, class room behavior and active participation in the teaching learning process
- Practical and viva voce examinations for all the semesters
- Semester end examination of 75 marks for semester I to semester IV
- University examinations for semesters V and VI

The summative and formative evaluation, together, aims at achieving the desired learning outcomes specified by the institution.

2.5.5 **Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightage assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.)**

The following measures and initiatives are taken to ensure rigor and transparency in the internal assessment
- As per university guidelines, 25 marks are allotted to internal assessment. The break up is as follows: 1) Class test of 20 marks 2) Student's attendance, class room behavior, active participation in the learning process, overall conduct of the student for 5 marks
- Syllabus for the class test is announced well in advance
- College conducts a centralized class test for semesters III to VI
- Re-class tests are conducted for the students who are absent for the class test due to reasons like representing college in NSS, sports and cultural

activities, medical grounds or any other genuine reasons sanctioned by the Principal
- Failures of the internal examinations are assessed on the basis of projects and viva
- The internal assessment mark lists prepared by the subject teachers are cross-checked by other teachers of the department before final submission of the same
- Grievances of the students are addressed by the authorities

2.5.6 What are the graduate attributes specified by the college/affiliating university? How does the college ensure the attainment of these by the students?

The Graduate Attributes and Learning Outcomes of the college were finalized based the one-day Workshop held in collaboration with University of Mumbai. It was further discussed and finalized by IQAC and discussed with the faculty and management before finalization.

Graduate Attributes of Vazeites:
- Modern youth to whom education is a means of social and economic empowerment
- Skilled to accept scholastic, career and value oriented challenges
- Environment and gender sensitive with inclusive and secular outlook
- Socially and politically aware
- Able to Synergize traditional and modern values and wisdom
- Able to manage and absorb change
- Competent and competitive globally

The college takes special efforts in ensuring the attainment of the above mentioned attributes:

Social empowerment of learners is achieved through the activities of NSS, VRG, WDC and Special Cell. Economic empowerment is achieved by imparting the philosophy of 'learn to earn' and by providing 'earn-while-you learn' scheme. Soft Skills development programs, Short term skill enhancement courses, industrial visits and the initiatives of Career Guidance and Placement Cell are the other efforts.

Scholastic, career and value oriented challenges are met by the activities of Chem club, study circle, soft skill development programs , UPSC coaching, Personality development workshops, Computer Courses, short term courses, Guest lectures by professionals and experts.

Environment and gender sensitivity is cultivated through the activities of NSS, WDC, Nature Club, Tree Plantation Drive, Cleanliness drives, interface with NGOs and sessions on Green careers.

College cultivates gender and social sensitivity through programs of Woman Development Cell   and Special Cell, Poster making and essay writing .Also

Study tours of students are arranged to socially relevant areas and institutes, Student Visits are planned to the State Assembly sessions.

Synergy of traditional and modern values and wisdom is achieved through the college cultural festival – Dimensions. Participation in University Youth Festival and in other intercollegiate festivals also promotes this synergy.

The students are trained to manage and absorb changes and to develop global competencies with the help of skill development programs and exposure to technology enabled teaching-learning and research.

2.5.7 **What are the mechanisms for redressal of grievances with reference to evaluation both at the college and university level?**

The examination committee looks into the redressal of grievances with reference to evaluation at the college level. Chairperson of examination committee is the in charge of this mechanism. All the grievances are redressed as per the guidelines of university of Mumbai.

At the university level:
In case of grievances in the university examinations, applications of the students are forwarded to the university.

At the college level:
Refer to 2.5.2 for the students' grievances related to evaluation
College has a mechanism to address the grievances of the students who are caught copying during the college examinations by the block supervisors or indulging in any other alleged malpractices.

- The report of the block supervisor, verified by the senior supervisor and countersigned by the chief conductor along with the evidence is sealed and kept in the safe custody of the examination committee
- After the examination, a list of such copy cases along with the evidence is submitted to the college Unfair Means Inquiry Committee
- The Unfair Means Inquiry Committee gives a hearing to the copy case candidates. If found guilty, the committee decides the punitive actions for the students depending on gravity of the offence and the university guidelines in this regard

2.6. **Student performance and Learning Outcomes**

2.6.1 **Does the college have clearly stated learning outcome and how the students and staff are made aware?**
Yes. The college does have clearly stated learning objectives.

- Every department in the college has well formulated learning outcome and Graduate Attributes. Based on departmental inputs college has evolved its learning outcomes and graduate attributes which are also the reflection of the Vision and Mission.
- Vision, mission, aims and objectives are:
  - displayed very prominently in the foyer
  - mentioned in the prospectus of the college
  - Put up on the Website

- An orientation program is organized for all entry level students wherein they made aware of the learning outcomes
- Learning outcomes are discussed at the staff meetings and at the departmental meetings
- Every year management celebrates Foundation Day on 20th June. On this day, staff teaching, nonteaching and management interact and a review of mission accomplished is presented by the principal
- IQAC of the college has formulated a quality policy reflecting the learning outcome, the vision and mission of the college

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/ program? Provide an analysis of the students' results/ achievement (Program /course wise for last four years) and explain the differences if any and patterns of achievement across the programs/ course.

The College adopts various strategies to monitor and communicate the progress & performance of the students throughout the year. All these strategies aim at helping the students to maximize their potential.

- Attendance of the students is monitored very systematically. Students who are irregular are counseled individually by the mentors and subject teachers.SMS is sent to the parents of defaulters. In extreme cases parents are called to the college and attendance of defaulters is monitored further.
- Teachers review the learning progress via class tests, internal examinations, assignments and presentations
- Students are encouraged to participate in various research/ subject-related competitions in and outside college which help the students to learn beyond the textbook
- Departments keep the record of internal evaluations and semester wise result of every student. Moreover, departments analyze the results and the inferences are used effectively to guide the students
- Advanced learners, slow learners and failures are identified. For slow learners and failures remedial teaching programs are arranged and at an individual level, teachers & mentors pay extra attention to these students.
- Interactive sessions are held to understand the students' problems
- Parents of T.Y. students are invited by individual departments and the progress of their wards is communicated

Thus by regular monitoring and timely interventions students' progress is monitored continuously.

Results UG level

	PROGRAM WISE PASS PERCENTAGE: UG				
Sr. No	Programs	2012-13	2013-14	2014-15	2015-16
1	B.A	97.60	97.20	88.02	86.82
2	BSc	88	79.64	95.28	89.43
3	BCom	94.43	92.50	94.14	80.82
4	B Com A&F	95.16	68.42	94.78	88.62

5	BCom B&I	85.25	70.58	82.69	80.43
6	BMM	90.56	98.21	87.23	88.33
7	BMS*	NA	NA	NA	61.70
8	Bio- Tech	86.66	91.88	100	100
9	IT	76	88.24	79.01	79.25

*First batch of BMS appeared for TY in 2015-16

There has been a progress in the results of some courses such as Bio-Tech and BSc. The results of the college in all programs are always better in comparison with the university results.

Results PG level:

PROGRAM WISE PASS PERCENTAGE: PG					
Sr. No	**Programs**	**2012-13**	**2013-14**	**2014-15**	**2015-16**
1	MCom	56.65	78.57	87.32	96.77
2	MSc (Chemistry)	100	75	66.66	66.66
3	MSc (Zoology)	99.98	87.05	100	71.43
4	MSc (Bio-tech)	94.73	100	95	97.00
5	MSc (IT)	53.33	83.33	100	87.50
6	PGDPCM	100	100	100	100

The results of most of the PG programs show substantial progress. This is an indication of the credibility of the college as a PG center despite it being an undergraduate college.

University Rank Holders:
- Mr. Kuldeep Mhatre, University topper, TYBSc Zoology, 2013
- Ms. Revati Dewal, 3rd Rank, TYBSc Biotech, 2013
- Ms. Karishma Rane, 3 rd Rank and topper in TYBCom Accountancy, 2013
- Ms. Shama Chalke, University topper at TYBA History examination, 2013
  She received:
  - Prof T A Kamat Memorial Prize (from University)
  - Prof. William Coelho Scholarship
  - Dr. C M Kulkarni Scholarship
- Ms. Tulsi Soni, University topper, TYBA Sociology, 2014
- Ms. Sammanaz Irani, 2nd Rank, TYBA Sociology, 2014
- Mr. Robin Mathew, University topper, MSc Zoology, 2015

2.6.3 **How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?**

Teaching, learning and assessment strategies of institution primarily aim at achieving the learning outcomes stated by the college. Vaze College provides a very stimulating environment to the students; thereby helping them to flourish academically as well as in other co-curricular activities. The

institution feels duty-bound to help each and every student to actualize his/her potentials.

Role of Management

Management plays a very important role in giving all the basic and advanced facilities to the teachers as well as to students. Facilities like state of the art laboratories for basic and advanced research, Language lab, commerce lab, learning center for visually handicapped students, computer labs, well-equipped library, gymkhana facilities are available. Adequate funds are made available for arranging guest lectures, departmental activities and extra-curricular activities

Role of Principal

Principal plays the role of motivator by actively supporting any such endeavor by teachers. Principal always supports and encourages teachers in attending and arranging seminars, conferences, refresher courses and guest lectures. He also ensures the sustenance of quality in teaching and evaluation

Role of Teachers

- Teachers complete the syllabus in a stipulated time as per the University norms. They are involved in Continuous assessment of the students and adopt innovative techniques in teaching-learning process like role-plays, ICTs and POGIL.
- Perform administrative duties related to examinations, admissions, discipline etc.
- Participate in research activities and encourage students to do the same.
- Work as mentors and counselors for the students in their curricular and extra-curricular development.
- Teachers act as conveners and members of committees for different extra-curricular activities, thus going beyond the prescribed syllabus.

Other Initiatives

- Over the years activities like Personality development workshop, Soft skills training programs, field visits to different institutes are organized; whereby students get exposed to different career avenues.
- Majority of the students are well motivated and they participate in different curricular and extracurricular activities which help them in overall personality development.

Thus Management, Principal, teachers, students together strive to achieve the learning outcomes. Good infrastructure, good technological support, teachers' empathic attitude towards students, blending of different pedagogies to create interactive learning environments, and emphasis on extracurricular activities are conducive to achievement of learning objectives. As a result, Vaze College can boast of illustrious alumni in different fields.

2.6.4 **What are the measures/ initiatives taken up by the institution to enhance the social and economic relevance (students' placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?**

The College enhances the social and economic relevance of the courses offered in the following ways:

- The syllabus of some subjects like Commerce I at FYBCom has a component of entrepreneurship which helps in developing entrepreneurial attitude in the students. The syllabus of Foundation course has been designed to sensitize students towards current issues, human rights, social issues and environmental issues. Through interactive learning methods like case studies, role play and by assigning projects an attempt is made to enhance the social and economic relevance of these subjects.
- PGDPCM has components on different aspects of entrepreneurship.
- The component of Industrial Visit or Study Tour is added to all the courses though it is not mandatory as per the prescribed syllabi. The college organizes industrial visits, visits to different NGOs working in the fields such as mental health, rehabilitation of destitute and conservation of environment. These initiatives give students some insight into different social issues.

Following are some of the socially/ economically relevant field visits organized over the years.

	2012-13	2013-14	2014-15
Economics	1) B.S.E training institute for a seminar on 'Careers in Finance'. 2) Chatrapati Shahu co-op. sugar factory at Kagal, Kolhapur 3) R.B.I Monetary Museum	1)Visit to Amul plant, Anand Gujarat. 2)Visit to NDDB & IRMA, Anand Gujarat.	1) Educational tour to Hyderabad; visited Ramoji film city and Telangana news office
Psychology	1) Visit to Gharkul, Dombivali, Thane 2)International Institute of Sleep Sciences, Mulund. 3) Aatman – school for special children, Thane 3) 6 institutes in the city of Pune, working in the field of mental health	Visit To Delhi 1) Indian Institute of Psychology 2) Defence Institute of Psychological Research	1) Samatoal foundation Murbad (run-away children's home) 2) Sharddha rehabilitation center for mentally ill patients 3) Visit to IPH , Thane 4) Visit to Goa- 6 NGOs working in the field of mental health were visited.
Sociology	-	Visit to Mysore to attend "All India Sociology Conference"	Visit to Hyderabad
History	Jodhpur,Jaisalmer and Sand dunes	1) Tour to Amritsar, Chandigarh and Panipat	Visit to Agra, Mathura
English	-	1) visit to Hyderabad Literature Festival	Times literary carnival, Mumbai

Political science	1) Vidhan bhavan AIRC, British council library, NGO's	Visit to Vidhan bhavan	1) Visit to American center library 2) Samatol foundation Murbad (run-away children's home) 3) Sharddha rehabilitation center for mentally ill patients.
Botany	Visit to Mangalore, Alibaug.	Khandala,Badlapur, Matheran, Murbad, Mahabaleshwar, Coorg	1) Cotton Research Institute Matunga 2) DapoliKrishiVidyapeeth
Zoology	1) Visit to Kanha tiger reserve M.P 2)Malvan	1) Visited Bhandup Pumping station 2) Mahabaleshvar 3) Bandhavgadh national park	1) Visited Bhandup Pumping station for 2) On the field birding workshop 3) Tadoba tiger reserve
Bio-technology	1) Visit to 'Sula Vineyards', Nasik 2) Visit to Bangalore, Mysore	1) Delhi, Chandigarh and Manali 2) Visited to Sula vineyards Nasik	1)Visit to Jaipur 2) Visit to Sula vineyards Nasik
B&I, A&F, BMS	1) Nashik , 2)Hyderabad, 3)Bangalore	Udaipur,Silvassa, Jaipur,	1) Bombay stock Exchange
BMM	1) Doordarshan Studios, Bangalore 2) Star Of Mysore (Newspaper) 3) Dodabetta Tea Factory, Ooty 4) Times Of India Literary carnival		
Physics		Visit to PRL and Plasma Research laboratory at Ahmadabad, Observatory at Mt. Abu and Solar Observatory and GONG facility at Udaipur.	**2015-16** ISRO, Raman Museum and IISc, Bangalore
Chemistry			**2015-16** ISRO, Raman Museum and IISc, Bangalore

- The college also organizes debates and elocutions on current social and economic issues.
- Associations like Vaze Research Group (VRG) motivate the students to collect and analyze data on topics of current social and economic relevance. Some of the activities of VRG are: a survey of ecological foot print, a survey of consumer behavior towards organic food, notice board alert on smart cities, FDI to improve Indian Railways, commercialization of coal extraction and opinion polls on social and political issues. These efforts cultivate the research aptitude and social awareness amongst students

- Students are encouraged to participate in Avishkar: an intercollegiate research competition by Mumbai University.
- College organized a 5 days certificate course in Entrepreneurship Development Program in collaboration with Rajiv Gandhi National Institute for Youth Development and ICTACT (ICT Academy of Tamil Nadu), in June 2015. Many successful entrepreneurs were invited as resource persons and they guided students regarding how to start the business and process of obtaining loans.
- Career Guidance and Placement Cell is very active. It is committed to provide all possible assistance to students seeking employment, thereby linking academic programs with placement process. The aim of the cell is to ensure that students have the information and skills necessary for an effective job search. The Cell also facilitates contacts between companies and graduates.

   In addition to campus placement, the cell has taken up the following initiatives to enhance the employability potential of students:
   i) Personality Development Workshops
   ii) Training sessions on soft skill development.

2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

The performance of the students in examinations is the main parameter to judge the learning outcomes.

Records of academic results and other achievements are maintained by the college. Every department does the result analysis and it is discussed at the departmental level and with the Principal. Recommendations that emerge from such discussions are ploughed back into the system by the departments and individual faculty members.

Analysis of student progression is another parameter used to judge the learning outcomes.

Each department maintains a record of student progression from UG to PG and from PG to PhD. This data helps to ascertain student performance and learning outcome of each program.

Measures taken to collect data and using its analysis in planning and eliminating learning barriers
- The feedback obtained from students on teachers, college facilities, teaching-learning process helps to gain an insight into the academic needs of the students and based on this feedback, modifications are made in the teaching plans. This feedback is also used in overcoming learning barriers and improving infrastructure
- Some departments, primarily through the tutorials, get insight into the caliber and aptitude of the students. The college also has a mentor program wherein comprehensive data relating to socioeconomic

background, academic track record and parental education is collected. This enables the tutor/teacher to treat each student as a unique entity, in a social and cognitive context

- To increase the success rate and pass percentage, remedial coaching, academic and psychological counseling, mentoring system and bridge courses, (Physics Dept. conducts bridge course for SYBSc students who want to take Physics at TY level, Quantitative techniques to enhance numerical skills, and English Enhancement course to overcome language barrier) are initiated. Innovative teaching methods and use of classroom assessment techniques are also used. Special efforts are taken to impart effective study habits like note-making

- To enhance soft skills, workshops on personality development, guest lectures, participation in extracurricular activities, field visits and skill development courses are initiated

- To enhance employability, interactive sessions on GD, Interview Skills and Personality Development are organized by Career Guidance Cell. Skill development courses like Tally, Financial Analysis, Plant Tissue Culture, Animal Tissue Culture and Mushroom Cultivation are conducted. College has a UPSC coaching center whereby students are given training to prepare for competitive examinations

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

- Principal of the college, Heads of the departments, individual faculty members and in charges of different activities are entrusted with the responsibility of monitoring and ensuring the achievement of learning outcomes. Results are considered as the most effective parameter of learning outcome.

- **Results**: The learning outcomes are monitored through the academic performance and the results of students.

- **Departmental Analysis**: A departmental analysis is carried out at the end of each semester to enable the faculty to assess their students' achievements and challenges faced. Based on this analysis, a plan for the forthcoming semester is drawn to improve on their existing performance.

- **HOD Meetings and Staff Meetings**: Periodic Reviews are carried out by the Principal through such meetings to monitor and ensure the learning outcomes.

- **Continuous Evaluation of Students**: Continuous evaluation is useful in ensuring the effective monitoring of learning outcomes.

- **Extracurricular/Co-curricular Activities**: The exposure provided to the students through various curricular and co-curricular activities on a regular basis ensures that the learning outcomes are realized in the course of the program.

2.6.7 Does the institution and individual teacher use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? and cite a few examples.

Yes. Marks /grades obtained by students in formative and summative evaluations is the main parameter to assess students performance and realization of learning objectives. This is used very effectively to plan the teaching –learning strategies at the departmental level.

Examples of such initiatives:
- Remedial coaching is recommended for failures/ low achievers. Exam committee hands over the list of failures to every department. Remedial coaching schedule is prepared and subject teachers and mentors personally persuade the students to attend remedial coaching sessions.
- After analyzing the difficulties faced by the students, the teachers adopt new ways of dealing with topics and concepts.
- Additional efforts are taken to equip students with basic concepts, which is a pre-requisite for learning particular subjects such as Psychology, Mathematics and Physics.
- Many bridge courses are introduced to overcome learning barriers.
  For instance, Economics department has introduced the short term course on Quantitative technique. This helps the Arts students to get familiar with statistics and mathematical skills which is otherwise a major barrier for them. Course like Research Methodology orients students towards framing a questionnaire and conducting surveys. Physics department conducts an orientation program for SYBSc (students who want to take Physics at TY level) on basic concepts of Physics. These courses equip students with basic cognitive skills to meet the challenges not only of undergraduate syllabus but also in their future academic endeavors.
- Advanced learners are encouraged to go beyond the textbooks and conventional curriculum. They are encouraged to participate in extra-curricular activities like intercollegiate research competitions. They are encouraged to do extra reference work by providing access to books from common library, departmental library, e-resources, from personal collections of teachers. Activities like Chem club, contribution to journals like 'Vaze Chemica' and additional project work stimulate learners who want go beyond the prescribed syllabus.

Thus using the evaluation outcomes as indicator of students' achievement and accepting the heterogeneity in composition of students, different strategies are drawn up so that students with different ability levels can maximize their potentials.

CRITERIA 3: RESEARCH, CONSULTANCY AND EXTENSION

3.1   Promotion of Research

3.1.1   Does the institution have recognized research center of the affiliating University or any other agency/organization?

Yes, the institution has 8 recognized research centers:

Science Section Research Centers and Guides:
- **Biotechnology :** MSc (By Research) and PhD (Center and Guides)
- **Botany :** MSc (By Research) and PhD (Center and Guides)
- **Chemistry:** MSc (By Research) and PhD (Center and Guides)
- **Physics :** MSc (By Research) and PhD (Center and Guides)
- **Zoology :** MSc (By Research) and PhD (Center and Guides)
- **Environmental Science:** PhD Guidance
- **Information Technology:** PhD Guide(Superannuated in December 2015)

Social Sciences and Humanities Section Research Centers and Guides:
- **Economics:** PhD (Center, Guide Superannuated in March 2016)
- **English:** MPhil Guidance, PhD (Center and Guides)
- **History:** MPhil Guidance, PhD (Center and Guides)

Currently, there are 19 recognized guides of whom Principal Dr B B Sharma is a guide in three subjects – Zoology, Biotechnology and Environmental Science and two teachers are guides in two subjects – Botany and Biotechnology. One teacher was recognized guide for Physics and IT (since retired).

Two adjunct professors are working as PhD guides in Botany and Chemistry respectively and also for Biotechnology.

Scientific Research Centre:

Industry Academia Interface as well as forward integration is achieved through the research facilities created and the in house expertise developed.

SRC is a special purpose vehicle for research in Biotechnology and Cosmetology. It is approved by Department of Science and Industrial Research (DSIR), recognized by FDA and CRISIL rated.

Biotechnology faculty of the college works in close collaboration with the SRC on projects in Plant Biotechnology and Microbiology. It has sponsored projects from DBT DST and collaborative projects with industry.

The department of Perfumery and Cosmetology is closely associated with the Cosmetology research projects of the SRC.

3.1.2 **Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.**

Yes, the institute has a research committee. Vaze College has been known for its healthy research culture since inception with Biotechnology as the thrust area.

Research Promotion and Staff Colloquium Committee is set up to monitor research activities of the staff. It has three members, a convener and the Principal as the chairperson.

It holds staff colloquium to encourage teachers to share their research work among their colleagues.

The committee also prepares student researchers for participation in '*Avishkar*'.

Research Supervisors also contribute to the working of this committee by mobilizing their research scholars for the Research Scholars Meet.

The committee invites external subject experts to assess the proposals before submitting them to the university, for approval.

In recent years, research in many other areas such as Basic Sciences, Humanities and Social Sciences have shown an increase.

The college has also has other committees such as UGC Committee, FIST Committee and CPE Committee to monitor funds received for research.

Recommendations by Research Promotion and Staff Colloquium committee are as follows:
- Focus on research by students at UG level
- More participation of students in research competitions
- More teachers to register for MPhil /PhD programs
- More teachers to take up minor, major and interdisciplinary projects
- Departments to start research centers
- All departments to participate in Avishkar to promote student research
- To purchase instruments, journals and to generate resources required for the research
- To pay stipend to research students
- To publish a multi disciplinary research journal

The recommendations of the committee have shown a positive impact in the form of an increase in research activities in the last 5 years as given below:
- Grants under DST-FIST and DBT-Star College Scheme
- 06 teachers registered for PhD
- 09 teachers completed PhD

- 02 teachers awarded MPhil
- 05 cleared SLET examination
- 12 teachers got recognition as PhD guides
- 03 Research Centers
- Publication of the research journal *Vaze Vistas*.

3.1.3 **What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/projects?**

The principal investigator and co-investigator enjoy full autonomy in designing the project and execution of the same, including utilization of the grant received.

The grant resources are released in time by the college. The expenses incurred for initial pre-project activities are borne by the college. The college facilitates timely auditing and submission of utilization certificate to the funding authorities.

Adequate infrastructure, resources such as electricity, AC, water, gas, analytical instruments and human resource support are provided by the college. The college also extends technology and information support such as Wi-Fi connectivity, computers, books, journals and e-journals. The library subscribes to 120 periodicals (68 journals and 52 magazines). It also subscribes to N-LIST program of INFLIBNET for access to 6,000+ titles of e-journals and 1,35,000 + titles of e-books. Internet facility is available free of cost in the library to researchers. The college has institutional membership of British Council Library, American Library as well as Asiatic Society of Mumbai.

The college has the following state of the art research facilities for research scholars:
- Research Laboratory for Advanced Research in Natural and Synthetic Chemistry and another research laboratory for other branches of Chemistry
- Perfumery and Cosmetology laboratories
- Scientific Research Centre with specialized laboratories
- Biotechnology laboratory
- Instrumentation center with the following instruments IR,UV,60MHz NMR,HPLC, GC –MS
- Laboratory for research in Physics-material science

Research scholars avail facilities such as SAIF, RSIC at IIT-B, for recording of spectra and X-ray. Instrumentation facilities like GCMS, FT-IR in S H Kelkar and Company are also available for researchers for spectral recording of samples. In addition, scholars avail facilities at the Haffkine Research Institute and ACTREC in Mumbai.

Additional resources are made available from the tie-ups with institutions like IIT-B, University departments, ICT, BARC, TIFR, ANCHROM, ACTREC, TDM Lab and Animal House at Ruia College.

The college motivates staff to apply for FDP and also for grants from various funding agencies like UGC, DST, DBT, DSIR, ICSSR and University.

Participation of faculty members in National and International conferences is encouraged. Special leave is granted for attending conferences/ seminars and for presentation of papers. College reimburses 50% or Rs 10,000 (whichever is less) of the registration fee in International conferences and 100% of registration Fee and II tier AC travel fare for teachers participating in National conferences.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The college has made several efforts in developing scientific temper and research culture among the students. Procuring grants from different funding agencies, developing infrastructure, enhancing library resources, guidance for research projects are some of these efforts.

- The college received grant for 5 science departments – Biotechnology, Botany, Chemistry, Physics and Zoology – under the **Star Scheme** of DBT for strengthening research and training at undergraduate level.
- Departments of Biotechnology, Botany and Zoology conduct Research Scholars' Meets in which all the researchers present a progress report. In this meet, guides and fellow researchers make suggestions to the scholars for improvement.
- Students are encouraged to participate actively in the inter university research competitions such as *Avishkar* and national and international conferences.
- Students are made aware about the various fellowships that are available to them at the undergraduate level such as NIUS (National Initiative on Undergraduate Science), POCE/POBE (Project Oriented Chemistry/ Biology Education); Fellowships of the Indian Academy of Sciences (IAS); KVPY (*Kishore Vaigyanik Protsahan Yojana*) and INSPIRE scholarship. Many students have participated in the selection process of these fellowships.
- Students are encouraged to enroll for summer training at institutes like Homi Bhabha Center for Science Education, TIFR, IUCAA, BARC, IISER, IISc Bangalore. Many students have availed of these fellowships and some of their work has been sent for competitions and published in peer reviewed journals.
- Students appear for NGP examination conducted by IAPT. The ranking and scores in this examination helps students to secure admission for summer courses or projects and PhD.
- Research supervisors collaborate with students in writing research papers. The department of Economics has organized an Economic Research Paper Competition titled "Development Story of any State in India/any Country of the World".
- Through 'Eureka', an exhibition on Natural and Social Sciences and the annual poster exhibition by the Department of Biotechnology, attempts are made to develop scientific temper among students. 'Eureka' drew

participation of students from all faculties. The competition on 'Best Out of Waste' focused on environmental and ecological issues.

- On the occasion of **Pearl Jubilee of the college**, an exhibition of research projects was organized. It showcased projects development in Science as well as from Social Sciences.
- PICASSA, an international scientific seminar is organized by the department of perfumery and cosmetology in association with the Indian Society of Cosmetic Chemists (ISCC). The event is organized to promote research in the cosmetic industry as well as provide advanced technical know-how to students and industry professionals to help them increase their knowledge for future research
- Vaze Research Group imparts training to students in primary and secondary data collection and in preparation of survey reports.
- Students of the department of Sociology attended the All India Sociology Conference at Mysore
- Students of English Literature attend Literary Festivals
- Alumni engaged in research are invited to share information on areas of research and to impart training

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.)

Name of Guide	Academic Year of Regn./ Award	Name of student	Topic
Principal Dr. B. B. Sharma (Zoology /Biotech)	2012-2013	Atul Dethe	Screening of Collagen from the By Products of Marine fish Processing Units and its Potential Applications
	2013-2014	Dr Shanti Upadhye	In Vivo and In Vitro Evaluation of Oxidative Stress in Chlorpyrifos treated pregnant Mice and Its accentuation by Dietary Antioxidants
	2013-2014	Dr Tanuja Samant	In Vitro Evaluation of Preservational Efficacy of Nisin in Cosmetics and its Cytotoxicity Studies on Animal Cell Lines
	2014-2015	Priyanka Lahare	Authentication and study of antioxidants, antimicrobial and anticancer properties of unexplored endemic species of Curcuma
Dr. Neelima Kulkarni (Zoology)	2015-2016	Shubhada Kushwaha	Establishment of Baseline Data on Biodiversity of Betawade and Adjacent Creek Area
Dr. Vinod R Ragade (Zoology)	2016-2017	Suryakant Khusape	Topic sent for approval by Mumbai University
Dr. Susmita Dey (English)	2014-2015	Vineet Radhakrishnan	The Evolution of Ecomasculinity in Selected American Novels Written Between 1962 and 2011"
		Sundari Johnson	Construction and Contestation of Masculinities in Select Partition Narratives
		Mallikarjun Loni	Reflection of Culture in the English translations of the plays of Mahesh Elkunchwar and SatishAlekar
		Pooja Powar	Social and Economic Empowerment of women through the writings of Anita Rau Badami, Monica Ali, and Maria Ardizzi
		Geetha Ganesh	A study to investigate the role of instructional materials and methods in the successful implementation of communicative language approach at the higher secondary level of the Maharashtra state board.
Dr. Nilakshi Roy (English)	2014-2015	Manoshi Bagchi	A Social Cognitive Study of Selected Indian English Young Adult Literature
		Tanvi Pokhare	An Enabling Perspective: Understanding Some Literary Constructions of the People with Disabilities in Selected Indian English Novels.
		Chandrakant Mhatre	A New Historicist Reading of Tukaram's Poetry: Mapping the Journey of a Family Man, A Recluse, a People's Saint
		Seema C	Re-Imaging History in Postmodern Fiction: A Study of Select Works by Orhan Pamuk and Mo Yan
Dr. Dinesh Kumar (English)	2013-2014	Shayeeree Ghosh	Language Asymmetry in the Novels of Mexican Writers
		Vinod Zalte	Ecospirituality in the novels of Louise Erdrich
		Nelson Daniel	Providence in Daniel Defoe's Novels
		Radhika Cheruvilla	Rewriting of Hegemonic Nuclear Family in the Novels of Terry McMillan
		Gauri Kavi	Hybridity and Identity in the Novels of Indocaribbean Women Writers
	2014-2015	Shyam Choithani	Railway and Modernity in Selected Indian English Fiction

		Jalaja Gopakumar	Identity and Cultural Negotiation in the novels of Chinese American Writers
Dr Sonali Pednekar (History)	2013-2014	Vikas Mehendale	A Study of the Political, Social and Cultural Conditions of 20th Century ChiplunTaluka
		Prasad Bhagwat	Importance of Public Libraries in Cultural History of Ratnagiri District
Dr. Preeta Nilesh (History)	2012-2013	Shyam Pakhre	Understanding Colonial Masculinities: A Study of M. K. Gandhi and V. D. Savarkar
	2015-2016	Vijayalakshmi Iyer	History of Indo-Srilankan Relations:1948-2000
	2016-2017	Snehal Nagtilak	A Historical Study of Socio-Economic Development of Eastern Suburban Mumbai (1952-2000)
Dr. Manjushri A. Deodhar (Botany/ Biotech)	2009-2010	Dr Ketan Thatte (Ph D Awarded 2012-13)	Study in Garcinia indica (Chois.) with reference to genetic diversity and sexual dimorphism.
	2009-2010	Dr Suvarna Adak (Ph D Awarded 2014-15)	Screening thermophilic algae for CO2 sequestration and production of fatty acids.
	2011-2012	Dr Dolly Khona (PhD Awarded 2014-15)	Characterization of BolA – like proteins from the green Chlorophyte *Chlamydomonasreinhardtii*
		Dr Anuja Kenekar (Ph D Awarded 2015-16)	Optimization of operational strategy for tubular photobioreactor with special reference to 1) Mitigation of CO_2 from flue gas emissions using indigenous thermophilic algae. 2) Production of algal biomass for phycobiliproteins as a source of natural colorants
	2010-2011	Dr Jayesh Anerao (Ph D Awarded 2013-14)	Studies in *Garcinia indica* (CHOIS.) with reference to karyomorphology and stability of anthocyanins.
	2012-2013	Kavita Dhavale	Screening halophilic cyanobacteria from saltpans of eastern suburbs of Mumbai for production of photoprotective compounds.
	2013-2014	Mamata Dike	Biotechnological Approaches: For understanding reproductive behaviour of *Garcinia indica* (Choisy) and Exploring its fruit extracts for UV protective ability.
	2014-2015	Pranita Tendulkar	Screening hot water Cyanophytes for production of UV protective compounds and study their effect invitro on 3T3 fibroblast cell.
Dr. Manjushri A. Deodhar (Botany/ Biotech)	2014-2015	Nilesh Jadhav	In vitro propagation of Mesua ferrea Linn. And Mammea suriga (Buch.-Ham.Ex Roxb) and Utilization floral extracts in cosmetics.
	2016-2017	Chaitanya S. Magar	Construction of laboratory scale photobioreactor for sequestration of CO2 from industrial flue gases and utilizing biomass for biofuel production.
Dr S .S. Barve (Botany/ Biotech)	2009-2010	Dr Priyanka Rane (PhD Awarded 2014-15)	Identification and characterization of keratin fibres using molecular techniques.
	2009-2010	Dr Shubhangi Bhave (PhD Awarded 2013-14)	Micropropagation and isolation of bioactive molecules and studies in medicinal properties of *Costus pictus* D. DON
	2010-2011	Mihir Herlekar (Work in progress)	In-situ nanoremediation of lakes using biologically synthesized metal nanoparticles.
	2010-2011	Ragini Bhave (Thesis submitted)	Micropropagation and isolation of bioactive molecules and studies in medicinal properties of *Ancistrocladus heyneanus.*
	2012-2013	Sneha Vartak (Thesis submitted)	Biochemical and molecular characterization of effect of sleep deprivation induced stress on human telomeres
	2012-2013	Yamini Patil	Evaluation of antioxidant activity of selected medicinal plant and its cosmetic applications
	2014-2015	Adesh Jade	Development of single nucleotide polymorphism (SNP) markers for diversity assessment of *Jatropha curcas*

	Year	Name	Title
	2012-12	Ms. Nanada Sharma	In vitro screening of antimicrobial and antioxidant properties of macroalgae extracts
		Mr. Harshal Rawool	Phytochemical profiling, identification and development of single nucleotide polymorphism markers (SNP) of *Costus pictus* D. DON
	2015-16	Ms. Neha Jogalekar	Identification, characterization, validation and molecular analysis of valerian and its substitutes.
Dr. G.T. Paratkar (Botany/ Biotech)	2012-13	Ms. Samidha Divekar (PhD Awarded 2015-16)	Biotechnological approach to study the properties of *Tinospora cordifolia* (Wild.) Miers.
	2012-13	Ms. Sanika Sankpal	Characterization and encapsulation of probiotics.
Dr. Lakshmy Ravishankar (Chemistry)	2012-13	Gomathi Shridhar	Synthesis of Heterocyclic and Carbocyclic Compounds using Cerium Chloride Heptahydrate as Catalyst.
Dr. S. V. Bhat (Chemistry)	2011-12	Dr Monica Rane (Awarded Ph D)	Studies in Stereospecific Synthesis and Their Pharmaceutical and Perfumery Applications.
	2012-13	Dr Sangeetha Vasudevan (Awarded PhD)	Studies in Biotransformation of Organic Compounds with Perfumery and Pharmaceutical Applications.
	2013-14	Dr Shilpi Kabiraj (Awarded PhD)	Stereospecific Synthesis and Applications of New Molecules as Antmalarial and Perfumery Agents.
	2013-14	Dr. Gouri P. More (Awarded PhD)	Studies in Synthesis of Bioactive Molecules using Chiral and Achiral catalysts.
	2014-15	Dr Shrikant Nalawade (Awarded PhD)	Asymmetric Synthesis of Bioactive terpenoids.
	2015-16	Dr Mayur Uttekar (Awarded PhD)	Synthesis and Evaluation of Novel Molecules for Pharmaceutical and Perfumery Applications.
	2015-16	Dr Rohan Pawar (Awarded PhD)	Design and Asymmetric Synthesis of Bioactive Molecules.
	2015-16	Dr Sylvia Fernandes (Awarded PhD)	Synthesis of Bioactive Molecules towards Antiviral, Antitumour and Perfumery applications
	2015-16	Mr. Gupta Vijaykumar (Thesis submitted)	Synthesis and Applications of Enones, Lignans and Isocoumarins.
	2015-16	Mr. Ravindra Gaikwad (Thesis submitted)	Studies in Design of Organic Molecules and their Stereoselective Synthesis for Pharmaceutical and Perfumery Applications.
		Mr. Rajesh Gavand	Studies in Stereospecific Synthesis of Terpenoids and Their Industrial Applications.
		Mr. Bhavarlal Sharma (Current Ph.D. Student)	Synthesis and Olfactory Evaluations of New Perfumery Molecules.

Collaborative Research

College encourages research collaboration of the faculty with other Institutions/ Universities in India and abroad.

- **Department of Biotechnology** collaborates with SRC in research
- **Department of Perfumery and Cosmetology**
  - Working on collaborative projects with SRC Cosmetology division
  - Working on two international projects in collaboration with Laboratory for Advance Research in Synthetic and Natural Product Chemistry
- **Department of Botany** has collaborative research projects with the following Institutes
  - ICT DBT Centre for energy bio fuels
  - Konkan Krishi Vidyapeeth and National Bureau for Plant Genomic Resource (NBPGR), New-Delhi
  The projects are:
  - Carbon dioxide sequestration using micro algae

- Study on one highly endemic tree species Garcinia of Western Ghats of India
- Screening thermo tolerant marine micro algal strain for large scale cultivation in tropical climatic conditions. The same thermotolerant organism has been shortlisted for cost effective mass scale production of microalgae. The project is shortlisted by DBT Biofuel center and the grant is expected to be received shortly

- **Department of Chemistry**
   A teacher is mentor for the National Initiative in Undergraduate Science (NIUS) program of Homi Bhabha Centre for Science Education

- **Laboratory for Advance Research in Synthetic and Natural Product Chemistry** has collaborative research with the following Institutions
  - National Institute of Immunology, New Delhi
  - University of Delhi
  - Tata Memorial centre for Advances Treatment, Research and Education
  - Entomology Division, National Chemical Laboratory
  - Satyavathy Biolife
  - BioAmber, INC, USA
  - S H Kelkar and Company

  The projects are
  - Development of New Anti-HIV Molecules
  - Development of New Antimalarial Molecules
  - Development of New Antitumor Molecules
  - Development of New Insect Control Agents
  - Development of New Bioactive Phytochemicals
  - Synthesis of biosuccinic acid derivatives and Cosmetic evaluation

3.1.6 **Give details of workshops/training programmes/sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.**

- Vaze Research Group imparts training to students in primary and secondary data collection and in preparation of survey reports.

  Primary Data Collection Programs:

  2013-14: i) Survey of Citizens' Responses to Urban governance of four municipal corporations
  ii) Survey of Consumer's Awareness Regarding Organic Food

  2014-15: i) Survey of Ecological Footprint of students
  ii) Survey of Purchase Behavior of Consumers Regarding Organic Food

  2015-16: i) Interviews of Social Entrepreneurs
  ii) Survey of Career Aspirations of students

- Short-term courses in *Modi Lipi* and Research Methodology are being conducted by the History Department. Knowledge of *Modi* script enables the students to read the primary sources of Maratha history and undertake

research as well as transliteration work. The course on Research Methodology imparts tools and techniques of Social Science research

- Department of English conducts training in Research Methods in English Language and Literature
- The Department of Economics organizes: i) Certificate Course in Quantitative Techniques for Arts students to equip them with statistical skills; and ii) a year long course in Basics of Econometrics to equip them with mathematical skills required in the study of Economics
- Workshops and Conferences conducted for capacity building in terms of research and imbibing research culture among the staff and students
- Departments of Botany and Biotechnology organize workshops in fields like Molecular Biology, Animal Cell Culture and Plant Tissue Culture and Algal Biotechnology, mushroom cultivation to impart research skills.
- CHEMCLUB organizes workshops and seminars for UG and PG students and teachers. Resource persons from IIT, ICT, Garware College, Pune and Department of Chemistry (Mumbai and Pune University) are invited
- The laboratory for Advance Research in Synthetic and Medicinal Chemistry organizes short term courses on Modern Concepts in Pharmaceutical and Chemical Industries-Level I
- The Department of Perfumery and Cosmetology conducted workshops on: i) Herbal Cosmetics which dealt with basics, formulation, development and quality control of Herbal cosmetics; and ii) on Perfumery which was arranged for industry and students for evaluation of perfumery ingredients and current trends

The following table indicates the conferences and seminars organized:

Year	Department	Title of the Conference
2012-13	IQAC	National Conference on "Quality Education: Revised Methodology in Assessment and Accreditation"
2013-2014	English	State Level Conference on "Bicentenary Celebration of Jane Austen"
	History	7th Mani Kamerkar Seminar on "Entertainment in India"
	Special Cell	State Level Conference on "Inclusive Growth of India"
	Perfumery and Cosmetology	National Level Conference on "Aromatherapy: an emerging field'
	Zoology	National Conference on "World Wet-land Day"
	Perfumery and Cosmetology	International Scientific seminar "PICASSA II"
2014-2015	History	National Conference on "Revisiting World War I"
	Botany	37th All India Botanical Conference of Indian Botanical Society on "Biodiversity and Climate Change"
	Chemistry	National Symposium on 'Emerging Trends in Chirality, Medicinal Chemistry & Perfumery'
2015-16	Economics and Sociology	National Conference on "Child Labor: Issues and Challenges"
	Accountancy and Commerce	National Conference on "Ease of Doing Business in India"
2016-17	Perfumery and Cosmetology	International Scientific seminar "PICASSA III" – theme was "360 Degree Cosmetics"

3.1.7   Provide details of prioritized research areas and the expertise available with the institution.

The teachers of Vaze College are engaged in research and consultancy and have developed areas of expertise over the years. Consultancy may not always result in monitory gains. Following table indicates the areas of research and expertise available:

Departments	Prioritized Research Areas and Expertise available
Accountancy	Accounting and Financial Management, Taxation, Company Law and Audit
Biotechnology	Standardizing agro-climatic conditions for large scale cultivation of economically important aromatic plants Standardizing protocol for extraction of aroma compounds, in-vitro Propagation,
Botany	Conserving Endemic Plants through *ex situ* Conservation Plant Tissue Culture, Taxonomy, Toxicity Testing, Algal Biotechnology, Molecular Techniques
Business Economics	Demography
Business Law	Company Law
Commerce	HRM, Advertising and Strategic Management
Chemistry	Green synthesis, solvent free reactions and making use of biodegradable solvents in organic synthesis, Synthesis of Spinels and Ferrites and their application in catalysis. Solid State and Material Science, Nano Material Synthesis and their Application in Catalysis, Synthesis of the molecules helpful in pharma, perfumery and cosmetic industries
Economics	Environmental Economics, Urban Economics and Economics of Medium, Small and Micro Enterprises.
English	English Language Teaching and Testing, Indian Writings of the Diaspora, American Literature, Indo-Caribbean Literature, Eco-criticism
Hindi	Anuvad and Gadya-vidya
History	History of the Marathas, History of Pre Modern Maharashtra, Modern India, Cultural History, Oral Techniques of Data Collection, Modern India, Urban History, Mumbai's Transport and Communication
Marathi	Marathi Grammar, Translation Studies, Language Planning, Marathi Theatre
Physics	Electronics, Material Science, Nano materials, Biophysics, Spectroscopic analysis of metabolites
Political Science	Indian Politics, Public Administration, International Politics, Issues in Health Governance and Medical Tourism
Psychology	Clinical, Industrial and Health Psychology
Sociology	Informal Sector Studies, Urban Sociology
Zoology	Enzymology, Oncology and Hematology, Environmental Biology and Biodiversity, Cytogenetics of Fish

3.1.8   Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

- Eminent personalities are invited to address the faculty and students during Annual Prize Distribution function and Gymkhana Day
- Important days like Science Day, Reading Day, are observed by arranging lectures by eminent scientists and litterateurs
- To commemorate the birth anniversaries of the founder Chairman of KET, Shri Bhausaheb Kelkar and Dr R A Kulkarni, founder Secretary of the Trust, the Shri G D Kelkar – R A Kulkarni Memorial Lecture Series is

organized every year in the first week of February. Eminent speakers are invited for these public lectures.

- Resource persons and delegates of national and international conferences organized by the college interact with the teachers and students and share their research work.
- Programs of various departments and activity groups have seen many personalities deliver talks through interactive sessions, workshops, seminars and conferences.
- Few of the eminent visitors to the college include:
  - Honorable Chancellor & Governor of Maharashtra His Excellency Dr. Shankarnarayanan
  - Dr Anil Kakodkar, Former Chairman, Department of Atomic Energy
  - Prof Bhalchandra Mungekar, Former VC, Mumbai University, Member Planning Commission
  - Prof Narendra Jadhav, Former VC of Savitribai Phule Pune University
  - Dr Rajan Welukar, Former VC Mumbai University
  - Dr Sanjay Deshmukh, VC Mumbai University
  - Dr Sanjay Oak, VC, Bharati Vidyapeeth

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

The said provision of Sabbatical Leave for research activities is not available for affiliated colleges of the University of Mumbai. As such the facility cannot be availed of. However, close to 50% of the staff hold PhD degrees.

In the last four years, three teachers availed of leave under FDP, while two were granted special leave to pursue PhD. The teachers after completion of their PhD have applied for research grants from funding agencies and have also applied for recognition as PhD guides. Many of them have got the recognition from Mumbai University and have also got funding for minor research projects from Mumbai University. Special Leave is granted to attend international conferences.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land).

The ultimate aim of any research is its translation / application from lab to land. All research activities of the faculty and students are oriented towards addressing societal issues. In an effort to realize this, the Research Promotion and Staff Colloquium Committee promote sharing of research work of staff members with their colleagues and college authorities and inter-faculty awareness is created.

Vaze Research Group compiles the research papers, published or presented by staff in various international, national, state or university conferences. The articles represent all the three faculties and offer glimpses into the research culture of the college. This compilation, **Research Horizons** documents the

research activities of the faculty. They also represent the emerging trends in research and reflect largely multi-disciplinary sensibilities.

Department of Chemistry publishes an annual magazine **Vaze Chemica** which includes subject related articles, puzzles and cartoons by students, teachers and alumni of the department.

The college publishes a Multidisciplinary Research Journal - **Vaze Vistas**. It provides an avenue for the publication of the research taken up by the staff in their respective subjects and / or with a multidisciplinary approach.

All PhD theses and MPhil dissertations of faculty and research scholars are made available in the college library for reference.

College has taken an initiative to patent the research on green garbage solution and collapsible bags.

SRC is engaged in the cultivation of aromatic plants in the Dhar region of Punjab in collaboration with DBT & Punjab University under the supervision of Principal.

Department of Botany carried out carbon dioxide sequestration using micro algae for reduction of flue gases from the atmosphere.

Perfumery and Cosmetology faculty is engaged in product development activity. The products are developed for Small Scale Industries. Make in India policy gets the boost in the process.

3.2   Resource Mobilization for Research

3.2.1   What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

The management earmarks approximately 1.5 % of resources for research and additional need based funding is made available to ensure unhindered activities in research field.

The founder Chairman of the Kelkar Education Trust, Shri G D Kelkar was himself an active researcher and conscious of the global research scenario. Hence, from the inception of the college and during its unaided period, the management supported all research activities.

To promote research culture in the college, the state of the art labs were established and need based funds were released to faculty. Thereafter, along with receiving funds from various funding agencies, the policy of releasing need based funds for research has continued.

The college receives funds for research from UGC – BSR, CPE, DST -FIST, DBT - Star College scheme, industry linkages and collaborations.

The major heads of expenditure are as follows:

- Salary for adjunct faculty
- Salary for instrumentation center in charge
- Affiliation charges for PhD centers
- Stipends for research scholars
- Travel expenses for attending conferences
- Registration fees to participate in conferences
- Books and journals

Amount spent for purchase of instruments and AMC as well as running cost is not included in the expenditure shown below.

Expenditure on Research Activities

Expenses on Research in Rupees	2012-13	2013-14	2014-15	2015-16
Periodicals and Journals	1,22,214	1, 38,557	1, 58,815	26,845
PhD and MSc fees contributions made to Mumbai University	65,340	50,905	54,730	47,885
Affiliation charges to University	Nil	Nil	Nil	78000
Seminars and Conferences	1,84,567	92,243	84,410	2,06,682
Salaries of the staff of Laboratory for Advanced Research in Natural and Synthetic Chemistry	4,30,862	4,30,013	2,85,095	2,63,486
Salaries of staff appointed at Instrumentation center	NA	NA	1,80,000	1,80,000
Total Expenditure	**8,02,983**	**7,11,718**	**7,63,050**	**8,02,898**

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

Yes, the institution has a provision for seed money to be given to faculty for research though the need for seed money through college funds is negligible. Most of the on-going research projects are adequately financed by agencies such UGC (BSR, CPE), DST (FIST) and DBT.

The management provides free laboratory and library facilities for all research students as well as faculty for initial experimentation before registering for PhD. The Research Promotion Committee encourages the teachers to apply for various research grants. Till the grants are released, the college funds the researchers to use the instruments, chemicals and infrastructural facilities. In addition, the funds generated by conducting workshops and summer courses are ploughed back for research activities.

3.2.3 What are the financial provisions made available to support student research projects by students?

From the various research grants received, the college arranges the stipend to be paid to the junior research fellows. The college has received grants under DBT Star Scheme which will be utilized for undergraduate research. One PhD student, Ms Priyanka Lahare from Department of Biotechnology received DBT- JRF from 2014 - 15.

3.2.4 **How do the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.**

Teachers work on interdisciplinary and collaborative research in alignment with the policies of MHRD, UGC and Knowledge Commission. Staff/ departments interact in organizing inter-disciplinary conferences/ symposium such as the ones on 'Revisiting World War I', 'Child Labour: Issues and Challenges', 'Ease of Doing Business', 'Emerging Trends in Chirality', 'Medicinal Chemistry and Perfumery' and PICASSA II and III.

- Conference on Revisiting World War I brought in multidisciplinary discussion on the topics touching upon political and diplomatic history, conflict studies, war economics, psychometrics, war and cultural representation, war and media, chemical war fare, war and society and military history.
- The conference on Child Labor had deliberations on social impact of child labor, economic aspects of child labor, child labor and role of NGOs, migration, literary expressions of child labor, media representations, trafficking of children, child labor and gender, legal aspects, case studies and child labor and trauma.
- The conference on Ease of Doing Business dealt with emerging areas of Business Studies such as paradigm shift in government policies, legal aspects, real estate, green business, green banking, insurance sector, rural marketing, glass ceiling effect, role of women in self-help groups, work-life balance, marketing strategies, HR Practices.
- The symposium on Emerging Trends in Chirality, Medicinal Chemistry and Perfumery, highlighted the importance of chirality in the fields of medicinal chemistry & perfumery and the current research in these areas.
- PICASSA II and III, conferences on perfumery and cosmetology had interdisciplinary discussions on marketing strategies, efficacy testing, packaging, formulations and entrepreneurship in the cosmetic industry.
- RPC provides a platform for teachers to be familiar with various research avenues while listening to the presentations by other teachers. Many research partnerships originate in staff colloquium.
- Many teachers are involved in collaborative research and they have completed research projects and have presented joint papers in conferences and seminars. (Refer to 3.1.5)
- Dr Shubhangi Bhave, an Associate Professor of Physics completed a doctoral degree in Biotechnology. This is the first interdisciplinary PhD in the college
- Many teachers have presented collaborative papers in national and international conferences

3.2.5 **How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?**

All research facilities and equipments are optimally utilized in the institution by providing easy access to them. A log book is maintained, indicating the use of the sophisticated instruments.

- The policy of promoting interdisciplinary research in areas such as Biotechnology and Synthetic Chemistry also ensures optimal use
- Research topics are allotted in such a way that they ensure the use of all available instruments
- Care is taken to avoid contamination in Animal Tissue Culture laboratory by restricting the number of research scholars using the lab at the same time. Common facility for analytical chemistry in the form of Common Instrumentation Center is created through FIST grant where all instruments for analytical purpose are available
- Statistical software SPSS, Library, browsing terminals, SRC, Biotechnology lab, Perfumery and Cosmetology lab, Analytical Chemistry lab, Plant Tissue Culture lab, Animal Tissue culture lab, Molecular Biology lab, Hardening room, PCR, Geldoc, Green house and Shade house are optimally utilized

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

Yes, the college has developed research facilities in collaboration with and the financial support received from industry and other funding agencies.

S H Kelkar and Company, after establishing them in 1995, continues to finance SRC and the Laboratory for Advanced Research in Synthetic and Natural Product Chemistry. The Company also established Special laboratories for plant tissue culture and extraction and analysis of active constituents to be incorporated in the end products.

Under the CPE grant, the college has received Rs 1.2 crores. This grant has been used in developing infrastructure for molecular biology and animal cell culture.

The college has also been sanctioned the DST-FIST grant for Rs 50 lacs, of which Rs 39.5 lacs have been received. The DST-FIST Central Instrumentation Lab has been established with the fund received. The analytical instruments were purchased and these sophisticated instruments are maintained in separate laboratory commonly available to all students. The College has also established an E-Learning Lab with advanced ICT facilities.

Faculty from various department of the college have received grants for minor and major research projects from Mumbai University, UGC and DBT as well as industries and the total grant amount sanctioned for the respective years is as follows.

Grant Sanctioned for Research 2012- 2013					
Name of the Recipient	Nature of the Project	Duration Year From To	Title of the project	Name of the funding agency	Total Grant Sanctioned
College	CPE	2012 - 2017	NA	UGC	1,20,00,000/-

Dr S Bhat	Company sponsored	2012-2013	Synthesis and Cosmetic Applications of lower esters of Succinic acid	BioAmber, Canada, USA	26,45,000/-
Dr V Ragade	Major	2012-13	Molecular Taxonomy of fresh water fish from Ulhas river (MS)	UGC	10,47,800/-
Dr L Thatte	Major	2012-13	Urban Local Governance and Environmental Management: A case Study of Pune Municipal Corporation	UGC	4, 20,200/-
Dr Preeta Nilesh	Avabai Wadia Post doctoral Research Fellowship	2012-13	Restaurant Culture in Suburban Mumbai: The Impact of Globalization on Public Dining	K R Cama Institute of Oriental Studies	2, 50,000/-
Dr B B Sharma	Minor	2012-13		UGC	85000/-
Grant sanctioned for Research 2013 - 2014					
Dr S Bhat	Company sponsored	2013	Synthesis and Cosmetic Applications of higher esters Succinic acid	BioAmber, Canada, USA	48, 00,000
Dr S Bhat	Company sponsored	2013	Synthesis of Cashmeran analogues	S.H.Kelkar & Co.	5,00,000
Dr Deepali Karkhanis	Company sponsored	2013	Clinical Trials for Antimicrobial Agents Conducted by SRC	Unilever	15,00,000/-
Dr S S Barve	Major	2013	Cultivation of Jatropha &S.N.P analysis	DBT	1.67cr
Dr B B Sharma	Minor	2013	Effect of *Pongamiapinnata* on blood glucose, lipid profile and on liver markers in Alloxan induced diabetic rats	UGC	1, 30,000/-
Dr Dinesh Kumar	Minor	2013	Aesthetics of Emotions in Anita Nair's Novels	University of Mumbai	33,000/-
Dr P S More	Minor	2013	Determination of physico- chemical properties, pka of Triflusal and method validation by HPLC.	University of Mumbai	25,000/-
Grant Sanctioned for Research 2014 – 2015					
Dr S Bhat	Company sponsored (Ongoing)	2014-15	Synthesis and Development of new perfumery and pharmaceutical agents	S. H. Kelkar and company	5,00,000/-
Dr Barve S.S.		2014-15	Cultivation of rose scented geranium using bio-tech methods.	DBT	74,00,000/-

Dr Deepali Karkhanis	Company sponsored	2014	Clinical Trials for Hand Sanitizers	Unilever	15,00,000/-
Dr Lakshmy Ravishankar	Minor	2015	Novel Synthesis Of Carbocyclic And Heterocyclic Compounds In Natural Biodegradable Solvents	UGC	2,50,000/-
Dr Sonali Pednekar and Dr.Susmita Dey	Minor	June 2014	The Metamorphosis of Suburban Mumbai: A Case Study of Mulund	UGC	1, 05, 000/-
Dr S N Kadam	Minor	2014		UGC	39500/-
Grant Sanctioned for Research 2015- 2016					
Dr. S Bhat	Company Sponsored	2015-16	Title: Development of new processes for bioactive molecules from natural sources	Satyavathy biolife sciences	5,00,000/-
Dr. Sonali Pednekar	Sir Dorabjee Tata Post-doctoral Fellowship	2015	"Pre Colonial Sashti to Colonial Salsette – Landscape Changes in the journey towards Urbanization	Heras Institute of Indian History and Culture	1,20,000/-
Dr Deepali Karkhanis	Company sponsored	2014	Clinical Trials for Hand Sanitizers	Unilever	15,00,000/

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

The Research Promotion Committee and Staff Colloquium make the faculty aware of various funding agencies for obtaining research grants. The college has UGC, FIST, CPE committees to monitor utilization of funds as well as assimilate information about new schemes of the funding agencies. Notifications related to such new schemes like eligibility and due dates for submissions are well publicized.

All Research proposals are forwarded by the Principal. (Refer table in Question 3.2.6)

3.3   Research Facilities

3.3.1   What are the research facilities available to the students and research scholars within the campus?

The college has recognized research centers in Chemistry, Botany, Physics, Zoology and Biotechnology in the Science faculty and English, History and Economics in the Arts faculty.

The college also has a state-of-the-art Scientific Research Centre where applied research for development of viable technologies in the areas of

aromatic and medicinal plants, microbiology, pharmacy and phyto-formulations is carried out.

Laboratory for Advanced Research in Synthetic and Natural product Chemistry is also available for research.

The department of perfumery and cosmetology also has the necessary infrastructure required for research.

Every science department is provided with sufficient laboratory space earmarked for research purpose. Every department is equipped with a laptop, LCD projector and internet connections.

The college has been a beneficiary of various government funding agencies under the CPE, DBT-STAR scheme, FIST grant as well as grants for major and minor research projects from UGC. The funding received from these agencies has been utilized to procure instruments and develop the necessary infrastructure.

Many faculty members have also received grants from Mumbai University for minor research projects. Faculty from the Department of History has received research grants from Asiatic Society as well as Heras Institute of Indian History and Culture.

Free internet facility is available for the research students in the library and laboratories.

3.3.2 **What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?**

Research has always been the thrust area for the college. The founder Chairman, Late Shri G D Kelkar was a visionary, who tried to implement new technology and ideas into research.

The experience gathered by him during his several visits abroad, helped him to improve on the existing technology and continuously upgrade the infrastructural facilities to meet the global standards and carry out research in emerging fields such as

- Identification and nomenclature of organisms supported by Molecular markers assisted bar coding
- Molecular fingerprinting and its applications as a tool to identify the best clones in aromatic and medicinal plants
- Synthesis and Development of new Anti-HIV agents
- Synthesis and Development of new Anti-cancer agents
- Development of new Antimalarial agents
- Synthesis of new as well as important perfumery molecules
- Synthesis of biosuccinic acid derivatives and cosmetic evaluation
- Synthesis of new molecules for insect control activity

The committee motivates the teachers to apply for grants from various funding agencies like UGC, DST, DBT & ICSSR.

Seed money is given to the staff by the management if need arises.

Funds received through the CPE, UGC or FIST program are utilized judiciously after thorough discussions with Heads of relevant departments

The instruments and other facilities procured through these funds are utilized by all researchers, such that maximum usage of facilities is there

3.3.3 **Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If 'yes', what are the instruments/ facilities created during the last four years.**

Yes, The college has received the following grants viz. DST-FIST and Star Scheme, UGC-CPE, BSR, DST. In addition, many teachers are beneficiaries of minor research grants of the University as well as major and minor research grants from UGC. Such grants are optimally used to develop research facilities like instruments, books, journals, laptops, internet facility and e-resources.

- CPE grant: Smart Board SB-560,Orbital Shaker,4ft Streamline Horizontal Laminar Air flow, Vertical Laminar Air Flow, LCD Projector(VPL),Super spin Refrigerator centrifuge, Alpha imager Gel Documentation, PCR, Perfect blue dual Gel system twins, 5 lt sterilable fermentor
- FIST grant: Digital Electronic balance, Rotary Evaporator+ MPLC , HPLC +Stabilizer, Thin Film Deposition Unit
- The college has established DST-FIST Central Instrumentation Laboratory. The College has also established an E-Learning Lab with advanced ICT facilities including Internet.
- Biotechnology, Botany, Chemistry, Physics, and Zoology laboratories have been upgraded.
- New computers have been added to improve the networking system and internet access.

3.3.4 **What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?**

In addition to the facilities on campus, students avail facilities of advance research centers. The examples are as follows

- SAIF at IIT- Bombay for recording of spectra
- Instrumentation facilities like GCMS and IR in S. H. Kelkar & Co. for spectral recording of samples
- Haffkine research institute for biological activity studies
- ACTREC Mumbai also for biological activity studies
- HPTLC facility of ANCHROM Mulund
- Facilities at BARC, TIFR and IIT Bombay by Physics students
- Additional resources are made available from the tie-ups with institutions like BARC, TIFR, NCL,TDM Lab and Animal House at Ruia College

- Researchers from the department of History have extensively used the library facilities of Maharashtra State Archives, Asiatic Society of Mumbai, Madame Cama Oriental library and the research center of Heras Institute of Indian History and Culture
- Library and reprography facility of Jawaharlal Nehru Library of Mumbai University used by all researchers and guides
- The department of English avails the library facilities of SNDT library, the American library and the British Council library

3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

- The college has a well equipped library, with a dedicated reference section
- The library subscribes to about 68 journals and 52 magazines
- Library subscribes to NLIST program of INFLIBNET where faculty and researchers have access to 6000 online e-journals and 1,30,000 e-books
- Free internet facility is available in the library
- Departments are provided with a laptop and free internet facility
- The college is also a member of British Council, Asiatic Society of Mumbai Library and American Library. The college facilitates the use of libraries such as K.R. Cama Oriental library, IIT-B, Jawaharlal Nehru Library of University of Mumbai and Chhatrapati Shivaji *Vastusangrahalaya* Library
- The Perfumery and Cosmetology department boasts of a good collection of journals and books and also has a collection of rare reference books on perfumery
- Books are purchased on a regular basis from the grants received from various agencies
- Researchers from the Science stream are allowed to avail of all the instrumentation facilities in the college

3.3.6 What are the collaborative research facilities developed/created by the research institutes in the college. Forex. Laboratories, library, instruments, computers, new technology etc.

The college has collaborative research projects with industries. Researchers have established linkages with agriculture universities as well.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of Patents obtained and filed (process and product).
Patents obtained and filed (process and product)
Original research contributing to product improvement
Research studies or surveys benefiting the community or improving the services
Research inputs contributing to new initiatives and social development

Patents:
- Renuka Theregonkar : Department of Perfumery & Cosmetology:

- Water Soluble /Collapsible Paper Bags, Patent Published on 21/11/2014 in The Patent Office Journal 21/11/2014; Page No: 11189; International Classification No: B65D 30/00
- Green Garbage Solution, Patent Published on 05/06/2015 in The Patent Office Journal 05/06/2015; Page No: 38084; International Classification No: C11 B9/00

- Dr Sujata Bhat: Laboratory for Advance Research in Synthetic and Natural Product Chemistry
  - Bhat, Ravindra D. Gaikwad and K. R. Vaze, 2015, Synthesis of chirally enriched 2,4-disubstituted tetrahydropyran-4-ol and its derivatives" PCT/IN2015/000390 dated 16th October, 2015
  - Sujata V. Bhat, Ravindra D. Gaikwad and K. R. Vaze, 2014, One-pot stereoselective synthesis of 2,4-dialkyl tetrahydropyran-4-ol and 4-acyl-2,4-dialkyl-tetrahydropyran structures for pharmaceutical and perfumery applications,, Indian application 3333/MUM/2014 dated 18/10/2014.
  - Sujata V. Bhat, S. Fernandes and K. R. Vaze, 2013, Synthesis and Perfumery applications of Novel Odorants: Synthesis of (5H)-1-benzopyran-5-one derivatives and 7 formulations for perfumery/flavor applications, PCT Application No PCT/IN2013/000645, WO 2014/064716 A1, May 2014.
  - Sujata V. Bhat, S. Fernandes and K. R. Vaze, 2012, Synthesis and Perfumery applications of Novel Odorants: Synthesis of (5H)-1-benzopyran-5-one derivatives and for perfumery/flavor applications, Indian Patent, Application No.3097/MUM/2012.

Original research contributing to product improvement
- A cost effective lab scale photo-bioreactor suitable to Indian climatic conditions was developed for CO_2 sequestration.
- Many formulations are developed for small scale industries

Research studies or survey benefiting the community or improving the services
- Survey of hypersaline cynobacteria from the salt pans from Mulund to Vikhroli was done for the first time. Marine cynobacteria was used for CO_2 sequestration. About 25 thermotolerant cynobacterial strains are isolated and maintained in algal biotechnology lab
- Some of the isolated strains are used for CO_2 sequestration and resulting biomass is utilized as biofuel
- The course in *Modi Lipi* attracts enrolment from research scholars and members of the public. Scholars who desire to pursue research in history of pre modern Maharashtra learn the *Modi* script to access original and unpublished sources. Members of the public who find it useful to understand ancestral *Modi* documents in their possession pertaining to property. Some of the participants utilize their acquired skills to transliterate documents for a professional charge
- SRC is carrying out cultivation of aromatic plants in the Dhar region of Punjab in collaboration with Punjab University

- Green audit is conducted by students and teachers under the supervision of a certified company
- Vaze Research group and NSS members conduct surveys which are socially relevant

Research inputs contributing to new initiatives and social development

- Green Garbage solution is a product developed to reduce the stink of the dump-yard grounds and increase the biodegradability of the wet garbage. It works by forming a film on the garbage and helping in deodorizing the bad odor and 80% biodegradation of wet garbage in 7 days
- The product can also be used by the society at home to remove the microorganisms and bad odor of the kitchen waste
- SRC is developed as a special purpose vehicle for forward integration with industry

3.4.2   Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

- The Institute has recently come out with its own multidisciplinary research publication called **'Vaze Vistas'**, comprising the Principal Dr B B Sharma and three senior faculty on its Editorial board. The first issue was released in June 2016
- Publication of all the faculty members is compiled in **'Vaze Horizons'**, which is released annually
- Many of our faculty members are members of the editorial boards of journals like Research Dimensions and Soaps, detergents and Toiletry Review

3.4.3   Give details of publications by the faculty and students
- **Publication per faculty**
- **Number of papers published by faculty and students in peer reviewed journals (national/international).**
- **Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database- International Social Sciences Directory, EBSCO host, etc.)**
- **Monographs**
- **Chapter in Books**
- **SNIP**
- **SJR**
- **Impact factor**
- **h-index**

Title	No
Publications	236
Papers Presented	182
Posters Presented	17
Monographs	01
Chapters in Books / Books	16

3.4.4 Provide details (if any) of Research awards received by the faculty

- Dr S S Barve of Scientific Research Center was the recipient of the **Innovative Scientist Award** DST-FIST (Lockheed Martin) (2014-15)
- Dr Renuka Thergaonkar received the **2012 European Beauty Innovation Award** for   innovative formulation process with medicinal ayurvedic herbs
- Dr Lina Thatte Economics Dept jointly with her PhD student received late Prof Om Prakash Best paper award at international conference on Governance organized by Delhi school of professional studies and research at Delhi in Jan 2015
- Dr Sujata Bhat jointly with her PhD student won the **2nd Prize** in poster presentation at the National Symposium 'Emerging Trends in Chirality, Medicinal Chemistry & Perfumery', V G Vaze College, 5th February 2015
- Dr Sonali Pednekar and Ms Alka Kelkar received the Best Paper Award for the joint paper on Bench marking in Higher Education Institutions presented at the National Conference on Quality Initiatives and Benchmarking in Higher Education Institutions at Surana College, Bengaluru, 2015

Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally

- Dr Lakshmy Ravishankar, Department of Chemistry, is the first Indian to be nominated for the '**175 faces of Chemistry**' project by Royal society of Chemistry UK to commemorate their 175th anniversary.
- Dr Lakshmy Ravishankar, Department of Chemistry, received the **INSA Teacher Award** from the Indian National Science Academy in Dec 2013.
- Mr Prathamesh Karle of BMM Department represented University of Mumbai at a summit organized by Altai state University, Russia.
- Dr Sonali Pednekar, Department of History received Post Doctoral Heras Tata Fellowship worth Rs 1,20,000 on 6th Oct 2015.
- Dr S S Barve represented India as Member of WG at ISO TC217 International regulatory convention held at Paris.
- Dr S S Barve was chief coordinator for Avishkar Research festival held by Mumbai University in 2016.
- Dr B B Sharma was felicitated By Chief Minister of Maharashtra Shri Prithviraj Chavan in RJ College on 22nd Oct 2014
- Mr Anil Naik, Mr Niteen Kane, Mr J B Vaishampayan and Mr Yogesh Sant are Fellows of the Institute of Chartered Accountants of India.
- CA Anil Naik has been awarded DISA

Incentives given to faculty for receiving state, national and international recognitions for research contributions.

- Faculty receiving National and International recognition are felicitated during the College Annual Prize Distribution function or Teacher's Day.
- An entire section of college magazine is devoted to highlight the

achievements of the faculty members. Their names, photographs and the details are portrayed there

- Flexibility in timings and Duty leave sanctioned
- Travelling cost reimbursed

3 .5   Consultancy

3.5.1   Give details of the system and strategies for establishing institute-industry interface?

The college is well known for the golden triangle of academics, research and industrial applications. Since the initial stage of establishment of the college, the management has taken keen interest in establishing good laboratory facilities and infrastructure and providing an environment conducive to research.

Vaze College is a pioneer in industry – Academic linkage. The SRC was set up to promote research and facilitate linkage with agriculture and industry. Elite varieties of economically important medicinal and aromatic plants such as Patchouli and Geranium were selected for research, tissue culture protocol developed and lab to land technology standardized. From one single plant brought from abroad, commercial production was established. Arrangements were made with industry for buy back of the farm products and processing and marketing of essential oils. This research has been expanded and similar protocols have been developed for more than 7 other plants.

The Perfumery and Cosmetology department carries out product development work, efficacy and claim substantiation evaluation especially for micro and small entrepreneurs in the cosmetic industry. Cost effective world class facility was developed for this purpose. This facility is now availed of not only by the MSME sector but also by the MNC's. The college is now acknowledged as a one point stop for the cosmetic and perfumery industry for man power, product research and development, efficacy and safety testing of herbal and synthetic products.

Dr Bhat in the Advanced Chemistry Laboratory is engaged in the development of molecules / compounds which are of interest to cosmetic – perfumery and pharmaceutical industry. Research projects are related to development of compounds for the treatment of malaria, HIV, Cancer and other tropical diseases. This has resulted in a close interface with the pharmaceutical industry.

The revenue generated through research and consultancy is shared with the institution on a 60:40 basis. The ratio is 40:30:30 if students are involved.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

Yes, The college has a well defined policy for promotion of consultancy through the faculty expertise and SRC.

- The institution renders consultancy to industry, NGOs, Government bodies and other academic institutes.
- Consultancy project of bioremediation of lakes in Thane Municipal Area was rated high by CRISIL
- Details of faculty and their expertise are publicized through the college website
- The brochures for the Scientific Research Centre and Department of Perfumery and Cosmetology highlight the facilities available for consultancy
- Visitors from academia and industry are taken on a guided tour of the advanced research laboratories to familiarize them with the facilities available
- Posters are displayed in SRC highlighting the areas of research
- Personal contacts of stakeholders with the industry help to publicize the research expertise

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

The college encourages its staff to establish contact with academic institutions, industry and collaborative partners by making available the college resources and infrastructure for consultancy.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last Four years.

The table given below indicates the broad areas of consultancy and the revenue generated during the last four years:

Sr No	Name of Faculty	Department	Title of project	Industry	Amount
1.	Dr.S.V. Bhat Dr S V Bhat & Dr Renuka Thergaonkar Dr S V Bhat	Adv. Research in Synthetic & Natural Product. Chemistry Laboratory	• Synthesis of New compounds and their evaluation for perfumery and pharmaceutical applications. • Synthesis of biosuccinic acid derivatives and Cosmetic evaluation • Standardization of natural products for commercialization.	S.H.Kelkar & Co BioAmber, INC,Canada and USA Satyavathi Biolife Ltd., Hyderabad	Rs.10 lacs Rs.74.45 lacs Rs.5 lacs
2.	Dr. Renuka Thergaonkar	Dept. of Perfumery and Cosmetology	Stability Testing for Products	Waxoil Pvt Ltd	Rs. 30,000

3.	Dr. Deepali Kharkhanis	Dept. of Biotechnology	• Clinical trials for Hand Sanitizers • Clinical Trials for Antimicrobial Agents	Unilever Unilever	Rs.15 lacs Rs.15 lacs
4	Dr. Renuka Thergaonkar	SRC	• Developed formulations for Cosmetic Industry	Undisclosed	Rs 15 lacs
5	Dr. S L Dhuri	Dept of Botany	• Taxonomy	Thane Municipal Corporation	Honorary
6	Dr Sonali Pednekar	Dept of History	• *Modi Lipi*	Need Based	Honorary
7	Dr S B Dey Dr Nilakshi Roy	Dept of English	• English Proficiency	Need Based	Honorary

All industry projects are strictly under confidentiality clause.

Besides the above, many of the faculty members are involved in honorary consultancy with NGOs and other educational institutions.

3.5.5   What is the policy of the institution in sharing the income generated through consultancy (Staff involved: Institution) and its use for institutional development?

College has a policy of sharing of revenue on 40:60 proportions between the teacher consultant and the institution. The revenue so generated is utilized for maintenance and improvement of infrastructure.

3.6   Extension Activities and Institutional Social Responsibility (ISR)

3.6.1   How does the institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

The college has taken many initiatives to inculcate good citizenship, service-orientation and to ensure holistic development of students.

These initiatives are mainly routed through committees in which students participate on a voluntary basis. Activities of the committees like NSS, Life Long Learning, Students Council, Women's Development Cell, Science Association, Nature's and Hikers Club, Kaleidoscope (Photography Club), Cultural Committee, DEQ, Literary Associations, Veethee, Fine Arts Committees shape students' personality and promote institution-neighborhood-community network.

The college has an active NSS unit comprising of 250 volunteers who are involved in community service. The Motto of NSS "Not Me But You", reflects the essence of selfless service. Through the projects, NSS volunteers reach out to various sections of society with the main focus on vulnerable groups.

Some of the ongoing activities jointly organized by NSS, STUCO and other

committees are:

a) **Swachh Bharat Abhiyan:** Under this movement, the college has adopted:

- Nanewadi and Mulund railway station in the immediate neighborhood
- Bendshil in Ambernath taluka
- Pivali village in Shahpur taluka

At all the sites mentioned, following cleanliness initiatives were taken

- Awareness programs regarding maintaining clean and healthy surroundings
- Construction of toilets
- Water channels and soak-pits to prevent accumulation of water and to prevent diseases

b) **Health Awareness Drive** is conducted on a regular basis through street plays, posters, one to one interaction and guest lectures, in association with BMC and NGOs on:

- Compulsory vaccination
- Vector borne diseases
- Tuberculosis
- Thalassemia
- Anemia
- Diabetes
- Bone marrow and organ donation
- Personal hygiene
- BMI
- AIDS
- Problems of persons with disabilities
- Benefits of yoga and balanced lifestyle

c) **Health Camps:** Annual health camps including eye check up, hemoglobin/blood sugar/BMI and thalassemia are conducted. Inspection of water storage facilities and drainage system in adopted areas is also part of health awareness camps. The college organized a health check up camp for children of MHADA colony, Mulund. Ophthalmologist and ENT surgeons were invited for the same.

d) **Blood Donation Camps** are carried out twice a year – one with Government run blood bank and second, with a private one. A tie up with Government Blood Banks allows any of our students to access blood unit free of cost when required.

e) **Education Programs:**

- Adult Literacy
- Education program for under privileged students organized with the help of Rotaract club and Kotak Mahindra
- NSS projects for adopted areas include note book distribution
- Interaction with parents and children in adopted areas to improve attendance in school

f) **Towards Environmental Citizenship:**

- Tree plantation drive
- Students taken to BMC nursery to learn to prepare saplings and soil for plantation
- Vermicompost pit in college and students trained to manage

- Best out of waste projects: making paper bags out of used newspapers, competitions and exhibition in recycling/reuse of waste
- Water conservation and construction of check dams in rural areas

g) Voters' Awareness and Registration drive:
- Voters' awareness drive is carried out each year by poster exhibitions and rallies
- Voters' registration drive is carried out before a forthcoming election

The beneficiaries of registration drive are – college students & staff with their families and Mulund residents.

h) Suicide prevention day is annually organized as '**Celebrating Life**' by the department of Psychology. Film shows, skits, poster exhibitions and guest lectures are organized to spread the message that 'Suicide is not the end of all problems'.

i) National Integration:
- The spirit of nationalism is created and unity fostered by observing days like Independence Day, Republic Day, Gandhi Jayanti, *August Kranti Divas*, *Yuva Divas*, *Sanvidhan Divas*, *Rashtriya Ekta Divas, Antyodaya Divas, Rashtriya Ekatmata Divas* and *Rashtriya Sankalp Divas*.
- The library prominently displays biographies and photo frames of national personalities on their birth and death anniversaries in the college foyer

j) Gender Sensitization*:*
- NSS and WDC organize guest lectures and workshops to promote gender sensitization
- On the International Women's Day a lady staff each from teaching and non teaching felicitated
- Workshop on self defense for girl students organized

k) Disaster Management: In collaboration with BMC**,** lecture cum demonstration sessions on disaster preparedness are organized.

l) Vaze Centre for Talent Search: Provides training for students of VIII, IX & X to prepare for the Maharashtra Talent Search and National Talent Search Examinations. Students of Vaze College are teachers for this program

m) UPSC / MPSC Coaching Cell provides training for students who wish to prepare for the Public Service commission examinations.

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements/activities which promote citizenship roles?

The college offers various activities to promote citizenship roles amongst students. (Refer 3.6.1) Their involvement is monitored through a structured mechanism. The functioning of these activities is broadly overseen by the Principal. He appoints Teacher Conveners and co-conveners who plan and organize the activities with the help of student coordinators. Teacher

Conveners and co-conveners monitor the student involvement. Student coordinators report to faculty members of the committee.

For students of NSS and Lifelong Learning, diaries assist in maintaining a check over their activities.

3.6.3 How does the institution solicit stake holder perception on the overall performance and quality of the institution?

The students, parents, alumni, teachers, administrative staff and society are the stakeholders of the teaching learning process. College solicits stakeholders' perception through regular interactions and formal and informal feedback on overall performance and quality of the institution.

- Management - staff get together is organized annually on the Foundation Day (20th June), in which the Management shares the future plans
- IQAC meetings for formulating quality policy and monitoring the progress
- HOD meetings allow the Principal to track the progress of each department and discuss their problems and solutions. Future plans and activities of the college are also communicated by the Principal
- HODs regularly conduct departmental meetings to apprise the members of the proceedings of the meeting of the Principal with the HODs and plan their activities
- Staff common room meetings are held regularly in which matters related to the teachers are discussed in an open forum
- The Local Managing Committee and College Executive Committee meetings are held at regular intervals
- Meetings of non teaching staff with Vice-Principal and Principal
- Parent - Teacher meetings through which suggestions and feedback are received from parents
- Teacher's evaluation by the students (PATS) is done annually and the feedback is given to the concerned faculty. Corrective measures are taken where necessary to improve the teaching-learning process
- Report of the Grievance Redressal Cell
- Reports of academic, administrative and activity group audits
- Feedback from industries and organizations which come for campus placements helps us organize our curricular and co-curricular programs to improve the employability skills of our students
- Alumni get -together is organized once in two years and this gives them an opportunity to interact with the staff and management of the college and share their experiences with them. Suggestions given by the alumni are considered and where possible implemented.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

The institution plans and organizes its extension and outreach programs through its NSS, DLLE, VCTS and ISR. The activities under the extension

programs are:

- NSS: (Refer to NSS Annexure) Annual Budget: Rs.220/ per student volunteer and Rs.450/ per student for 7 –day rural camp. The management provides additional funds as and when necessary.
- DLLE: Students carry out projects under DLLE such as i) Annapoorna Yojana ii) Survey of status of women in the neighborhood iii) Career counseling and iv) Industry orientation and v) Essay writing
Budget: Rs.200/ per student is collected as registration fee. The expenditure for the project work, field visits and travelling expenses are reimbursed after submission of the projects.
- Vaze Centre for Talent Search Provides training for students of IX & X to prepare for the Maharashtra Talent Search and National Talent Search Examinations. It is a self financing activity where the fees collected from students are utilized for running the program.

- CHEMCLUB in association with the Royal Society of Chemistry-West India Section has organized several workshops/ lectures and seminars for the benefit of UG and PG students of Mumbai University. Students from neighboring colleges also participate and the feed-back to these programs has been very encouraging. RSC-WIS provides a budget of Rs 50,000/- which has been recently increased to Rs 65,000/- for organizing the outreach/ extension programs.

All these extension and outreach activities help build leadership, team building and interpersonal skills among students in addition to knowledge gain in their subject.

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International agencies?

The institution encourages participation of students and faculty in extension activities.
- Notification of various events organized by displaying notices; campaigning in classrooms and publicizing through the college website and prospectus
- Orientation program at the beginning of the academic year highlights the importance of these activities
- Students participating in extension activities granted leave of absence
- Necessary infrastructure provided for the conduct of various activities
- Certificates of participation/ organization issued
- Best NSS volunteer felicitated during the Annual Prize distribution function
- Teachers participate in various extension activities
- Services of teachers who have made a mark for themselves in extension activities are acknowledged

While the college is not an NCC centre, nevertheless some students participate in NCC through the centers in other colleges. They are given all necessary support from the college.

- The Vaze Centre for Talent Search is a unique program to identify talent and groom school children in the field of competitive excellence. UG and PG students of the college comprise the faculty for this program.
- Student teachers who have displayed exceptional teaching skills are felicitated in the annual function

3.6.6 **Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?**

- NSS coordinates the activities that ensure social justice and empowerment of the underprivileged and vulnerable sections of society. The NSS and UPSC-MPSC committee jointly conducted an extensive survey of the adopted villages, based on demographic pattern, literacy rate / health / sanitation / economic conditions of these areas. Based on this survey the extension activities are conducted such as adult literacy, child education and health awareness programs
- Door to door survey was conducted on status of child education in the area. It was found that 40% of children were either not admitted to school or were school dropouts.
- The medium of street plays was used to convey the importance of education
- NSS volunteers visited the Divya Prabha Ashram, a girl's orphanage situated in Vartak Nagar, Thane and donated note books
- NSS volunteers also visited leprosy patients in a leprosarium- Volunteers interacted with the patients
- Under the DLLE project, students conducted a survey on Status of Women

3.6.7 **Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.**

In keeping with the vision, mission and graduate attributes of the college, the extension activities are planned. The outcomes of the various activities complement the students' academic learning as well as help them develop life skills to help them to grow as good citizens. Through its projects, Vaze NSS volunteers reach out to different sections of society with main focus on the vulnerable groups. The volunteers strive to create awareness about causes and solutions on issues related to health, education, sanitation, national integration, environment, gender, senior citizens, disability, world peace and disasters. NSS volunteers develop a sense of responsibility for the under privileged and the vulnerable, understand and identify needs of the community in which they live, develop organizational skills and competence required for team work, acquire leadership skills and democratic values. Many projects are carried out in collaboration with Municipality, police, hospitals, social workers and NGOs.

In addition to the above extension activities, many students participate actively in the various committees of the college like Dimensions, Cultural committee, and DEQ. They are involved in the various aspects of event management like

sponsorship, logistics, hospitality, branding, housekeeping, PR, visualization and use of social media.

The outcome of all such activities can be summarized as follows:

- **Academic learning**: Students develop analytical skills, social sensitivity, environmental awareness and emotional intelligence that complement their theoretical knowledge of subjects
- **Skills learnt:** Administration; back office skills, life skills like leadership, team building, communication, decision making, people management, inter and intra personal skills and confidence building
- **Values added:** Dedication, moral values, empathy, tolerance and discipline

3.6.8 How does the institution ensure the involvement of the community in its reach-out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

Participation of community in the extension activities of the college is ensured by working with established agencies like Mumbai Police, Election Commission, Indian Railways, public and private hospitals, Rotaract Club, Lions club and NGOs like *Hariyali.*
The brand value of these agencies ensures the involvement of the community.

NSS unit of the college has adopted Urban Slum, Nanewadi (Nepalwadi), Mulund East and in rural area, four wadis of Bendshil village in Ambernath taluka and Pivali village in Shahpur taluka. One week residential camp is organized every year in the adopted villages. The activities carried out during the camp include construction of *bandhara* (check dams)/soak pits/latrine/ water channel construction, tree plantation, compost pit, cleanliness drive, street play on health and importance of education, interaction with teachers, and students of village school. The college has taken up the responsibility of cleanliness and beautification of Mulund Railway station. NSS volunteers of the college have been actively participating in maintaining traffic discipline during the *Ganapati Visarjan* (Immersion of Ganapati Idols).

These activities have social and environmental impact and they ensure the community participation.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

The college has forged constructive relationships with Mumbai Police, Election Ward office, Mulund, NGOs like Haryali and Young Concept and as part of ISR with the Phondaghat Education Society.

Highlights of the various outreach and extension activities are enumerated below.

Social Outreach Programs:
- NSS volunteers have regularly participated in Road Safety Week. Volunteers help in crowd control during the *Ganapati Visarjan*. NSS arranged a lecture of personnel from the traffic police
- The RTO selected the college to launch a pilot project to facilitate the issue of learner's license to staff and students. Many students and staff availed this facility
- NSS and STUCO jointly are assisting the Election ward office at Mulund to bring about voter awareness. The voter registration drive was initiated by the college. New voters in the vicinity could register at a desk put up for the same
- The college has been associated with Hariyali, an NGO working in the field of protection, conservation and enrichment of environment. Students and teachers of the college, collaborate with Hariyali on mass plantation and post plantation activities
- Workshops for making eco-friendly Ganapati are organized
- Awareness program for students on bio-composting and vermi-composting is also organized in the college
- In association with the NGO Young Concepts, Department of Sociology and Women's Development Cell, organized workshops on Women's hygiene in which doctors were invited to interact with students and explain to them the importance of hygiene and also awareness and prevention of anemia

Academic outreach programs:
- Spoken Tutorial of IIT, Bombay has agreed to donate 30 laptops with educational software loaded to the college for the benefit of students. The facility will be extended to students of other institutions.
- Royal Society of Chemistry –West India Section and Chemical Research Society of India –Mumbai has regularly been sponsoring UG & PG workshops organized by the CHEM CLUB of the college
- The CHEM CLUB of the college is now a student chapter of Royal Society of India – West India Section. RSC –WIS will provide financial assistance to organize various activities in the college for the benefit of the students. Activities of CHEM CLUB are open to students from other colleges
- Backward integration program through VCTS, trains students from the IX & X Std for the competitive National Talent Search and Maharashtra Talent Search examinations.
- Backward integration also achieved by offering training to school children in Biotech and SRC laboratories by experts
- Forward integration is achieved through the SRC by extending help through expertise and infrastructure to researchers from other institutions

Institutional Social Responsibility:
- The institution conducts a 'Certificate Course in Perfumery Analysis for the Visually Challenged. This course is offered free of cost to the learners. In addition, the learners are not charged for the fragrance kits, Braille books and other raw materials. Besides training in olfactory perception,

they are also trained in computer systems, official correspondence and use of the web to augment their employability. Personal grooming and personality enhancement also form part of the course

- Vaze Vision – A Centre of E-Resources for the Visually Challenged has also been established
- As an outreach program, Vaze College has established a practice of sharing knowledge and facilities with the learners of rural institutions. As part of this project, college formulated a proposal to invigorate the urban-rural educational interface. The Phondaghat Education Society's College of Arts and Commerce was chosen for this initiative. Faculty exchange program, short-term courses for the students, city tour of Mumbai for the students from Phondeghat, are some of the activities under this program

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

The efforts and work of the teachers and students in promoting extension activities have been acknowledged by the University.

- Dr. Satwant Balse, NSS coordinator has been appointed as the Area Coordinator of NSS by the University
- Dr Ajit Kengar participated as :
  - Contingent leader of Maharashtra and Goa NSS Volunteers team in the National Republic Day parade Camp – 2014(NRD-2014), organized by Ministry of Youth and Sports, Govt of India from 1/1/2014 to 31/1/2014 at the Jawaharlal Nehru stadium, New Delhi.
  - Contingent leader of Maharashtra NSS Volunteers team for NSS West Zone Pre National Republic Day parade Camp – 2013, organized by Regional NSS office at Ahmedabad Ministry of Youth and Sports , Govt of India from 5/11/2013 to 15/11/2014 held at Kadi sarva Vishwavidyalaya Gandhinagar, Gujarat
  - Contingent leader of University of Mumbai, NSS Volunteers team for State level selection for Pre NRD and SRD Camp – 2013, organized by Dept of Higher education Govt. of Maharashtra held at Dr Babasaheb Ambedkar Marathwada University ,Aurangabad from 21/09/2013 to 23/09/2013
- Mr Arvind Jadhav was selected as a contingent leader for Mumbai University's Utkarsh, state level Socio cultural competition
- Mr Aniket Raut, a student, participated in the Republic Day Parade held in New Delhi

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives-collaborative research, staff exchange, sharing facilities and equipment, research scholarship etc.

Right from the inception, the management has encouraged research activities in collaboration with external agencies. It has resulted in the following

initiatives:

1. CO_2 sequestration

Research

- Vaze College is the first institution in India to construct an algal photobioreactor for feeding flue gases emitted by the industry. This process is environment friendly, as it reduces the amount of hazardous gases in the atmosphere. The Department of Botany is engaged in algal CO_2 sequestration research.

Collaboration

- A 100L lab scale bioreactor was designed and funded by ACC and later by National Bureau for Cement and Building Material. To scale up the reactor to 2000L capacity, collaboration was established with DBT ICT Centre for Energy Biosciences.

Benefits accrued

- The research initiatives in algal CO_2 sequestration resulted in roping in industry and research institutes of national repute and getting access to the state of the art research facilities of DBT ICT center.

2. Algal Biotechnology

Research

- Algal genera suitable for outdoor cultivation in Indian climatic conditions have been isolated and the strains were identified in collaboration with Botanical Survey of India. The algal biotechnology lab has a collection of about 30
- Indigenous strains well suited for Indian cultivation. These can be used for production of food, fodder, fuel and cosmeceuticals.
- *Pseudanabaenasalina* a strain isolated from salt pans in Bhandup was shortlisted and was successfully grown in outdoor conditions in summer

Collaboration

- The same thermo tolerant organism has been identified for cost effective mass scale production of microalgae. The project is shortlisted by DBT Biofuel centre and the grant is expected shortly.
- The carotenoid evaluation from saline microalgae has been conducted with the help of ICT

Benefits Accrued

- MSc and PhD students have worked on these projects and received scholarships of Rs.10,000/- for the same

3. Conservation of endemic tree species of Western Ghats

Research

- Department of Botany is involved in ex situ conservation of endemic tree species of Western Ghats. Garcinia (*Kokam*) is one such highly endemic tree found in only two districts of Maharashtra. Extensive research on its rare occurrence and unique reproduction by apomixes has been extensively studied for the last 20 years

Collaboration

- To confirm the findings, collaborative work with National Bureau for Plant Genomic Resources (NBPGR), New Delhi was carried out for procuring detailed paraffin embedded microtome sections of various stages of the embryo.

Benefits accrued
- A joint major research project was submitted to UGC in 2014 and the sanction is awaited

Scientific Research Centre

1. Cultivation of aromatic plants in the Dhar region of Punjab
Research
- The project involves standardization of agro technologies under local conditions for five aromatic crops viz. Lemon grass (Cymbopogonflexuosus), Citronella (Cymbopogon winterianus), Palmarosa (Cymbopogon martini), Patchouli (Pogostemon cablin) and Geranium (Pelargonium graveolens);

Collaboration
- With Punjab State Council of Science and Technology along with Punjab Agriculture University and DBT-GOI

Benefits accrued
- Capacity building of farmers
- Setting up two distillation units for value addition through extraction of essential oil and

Arranging marketing tie-ups for its buy-back through Unnati and Keva Biotech, the industrial arm of Kelkar group

The Laboratory for Advance Research in Synthetic and Natural Product Chemistry has been collaborating with various institutes/ organizations on various projects. A brief highlight of the various projects is given below.

1. Synthesis and Development of New Anti-HIV Agents
Research
- AIDS caused by the infection with human immunodeficiency virus (HIV) represents a major health problem worldwide. Therefore, there is a continuous need for novel and effective drugs against HIV-1.

Collaboration
- Activity studies are done in collaboration with National Institute of Immunology, New Delhi.

Benefits accrued
- The synthesized molecules have shown anti -HIV activities similar to integric acid, the natural fungal metabolite with anti-HIV activity
- PhD students have worked on these projects and received scholarships

2. Synthesis and Development of New Anti-cancer Agents
Research
- New molecules having anti cancer activity have been designed and synthesized . Their anti cancer activity has been evaluated. Several natural molecules such as andragrapholide, asiaticoside, arjunolic acid, sesquiterpenoids etc have been modified to obtain new molecules.

Collaboration
- Activity studies are done in the Advanced Centre for Treatment, Research and Education in Cancer, Mumbai

Benefits Accrued
- Some of the molecules displayed potent activity against human tumor cells

3. Development of new Anti Malarials in collaboration with Delhi University
Research
- Development of a one pot synthesis of new artemisinin derivatives. Further development in this area is in progress.

Collaboration
- Collaboration with Delhi University

Benefits accrued
- Some of the new molecules synthesized display potent antimalarial activity *in vitro*

4. Synthesis of New as well as important Perfumery Molecules
Research
- Several molecules have been synthesized with perfumery/cosmetic applications. Processes for manufacture of some perfumery/cosmetic molecules such as ambrox, florol, roseoxide, geosmin, WS-3, helvetolide etc have been standardized

Collaboration
- With S H Kelkar and Co.

5. Synthesis of biosuccinic acid derivatives and Cosmetic evaluation
Research
- Synthesis and Cosmetic Applications of higher esters of bio-Succinic acid has been achieved.

Collaboration
- With Bioamber USA and Department of Perfumery & Cosmetology, Vaze College

6. Synthesis of New Molecules for Insect control activity with NCL, Pune
Research
- Several new molecules were synthesized and evaluated for insect control activity.

Collaboration
- With NCL, Pune
- Project on standardization of natural products for commercialization with Satyavathy Biolife, Hyderabad.
- Project on Stability Testing for Products by Waxoil Pvt. Ltd

3.7.2 **Provide details on the MoUs /collaborative arrangements (if any) with institutions of national importance/other universities/ industries/ Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.**

Several MoUs / collaborative arrangements exist Vaze college and Institutions of national importance. The list is given below and details are highlighted in 3.7.1

Department of Botany has MoUs with
- ACC
- National Bureau for Cement and Building Material
- DBT ICT

Scientific Research Centre has collaborations with
- Punjab State Council for Science and Technology (PSCST)
- Punjab University
- DBT-GOI
- Unilever

Laboratory for Advance Research in Synthetic and Natural product Chemistry has collaborations with
- National Institute of Immunology, New Delhi.
- Advanced Centre for Treatment, Research and Education in Cancer, Mumbai
- Delhi University
- S.H.Kelkar and Co
- Bioamber USA
- NCL, Pune
- Satyavathy Biolife, Hyderabad

Department of Perfumery and Cosmetology has collaboration with
- Waxoil Pvt. Ltd.

The above mentioned MOUs and arrangements with research institutes have enriched the research culture in the college by enhancing infrastructure and equipments, offering student fellowship and creating employability. Faculty and students get hands on experience of applied research in emerging areas.

3.7.3 Give details (if any)on the industry-institution-community interactions that have contributed to the establishment/ creation/up-gradation of academic facilities, student and staff support, facilities of the institution viz. laboratories/library/new technology/placements services etc.

The college has Industry-Academia-Community interface based on biotechnology. The project in Dhar block, Gurdaspur, Punjab and the patchouli and geranium projects are some of the examples

- The success of Patchouli project (to propagate, preserve, protect and popularize aromatic and medicinal plants) led to the establishment of the

Scientific Research Center by KET. (Ref: 7.3 for details)

- Department of Botany is engaged in the conservation of biodiversity of Western Ghats. The department has identified 5 genera of the *Cluciacae* family. 2 of the 5 genera were found to be endemic trees producing beautiful, fragrant flowers. In view of *exsitu* conservation of these species, a protocol of *in vitro* propagation of these plants has been established. One of the plants, *Mammeasuriga* commonly known as*surangi,* profusely flowers annually. A method for extraction of essential oil from these flowers was not available to the farmers. Hence, a method of extraction was standardized with the help of Fragrance and Flavor Development Centre, Kannauj. The GCMS and head space analysis was carried out in S H Kelkar Company. In collaboration with the department of Perfumery and Cosmetology, this essential oil was used as an ingredient in body oils and creams

- The various projects of Laboratory for Advance Research in Synthetic and Natural Product Chemistry provide opportunities for fresh PG students to join as Research Associates.

- The above mentioned initiatives have helped the college in upgrading lab facilities, knowledge- skill enhancement and provided employment opportunities to students. Many in-house students and students from other colleges avail training facility in plant tissue culture and green house technology and use of molecular markers in crop improvement.

3.7.4 Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

Year	Sr No	Organizing Dept./ Committee	Date	Theme	Eminent Scientist/ Resource person.
2012-2013	1.	Chemistry	19-20th Oct. 22-23rd Oct	Stereochemistry Basic Concepts in Organic Chemistry	• Prof A V Karnik - Head, Dept. of Chem, Univ of Mumbai • Dr S J Gharpure - Dept. of Chem, IIT-B • Prof S D Samant - Applied Chem. Division, ICT, Mumbai
	.2.	IQAC	2nd - 3rd Dec.	Quality Education: Revised (2012) Methodology in assessment and Accreditation'	• Dr Rajan Welukar, VC, University of Mumbai • Dr M R Kurup, Secretary, Kelkar Education Trust • Dr Suhas Pednekar, Principal, Ramnarain Ruia College • Dr Naresh Chandra, Pro-VC, University of Mumbai
2013-2014	4.	English	3rd August	State Level Conference on "Bicentenary Celebration of Jane	• Dr Mabel Fernandes – Reader , Dept. of English, Babasaheb Ambedkar Marathwada Univ, Aurangabad • Dr Shilpa Sapre Bharmal-Head, Dept. of English, DBJ College,

			Austen"	• Ms Snighda Manchanda Tea Historian and Connoisseur, Proprietor, Tea Trails
5.	Chemistry	26-27th July	Pericyclic Reactions	Prof K P Kaliappan - Head, Dept. of Chemistry, IIT-B
				Dr S J Gharpure - Dept. of Chem,IIT-B
				Prof Balkrishna – IITB
		22-25th Oct.	Basic Concepts in Chemistry	Dr Santosh Gharpure –IITB
				Prof S D Samant – Applied Chemistry Division, ICT, Mumbai
				Prof R V Jayaram - Head, Applied Chemistry Division, ICT, Mumbai
				Applied Chemistry Division, ICT, Mumbai
6..	History	15th Sept.	7th Mani Kamerkar Seminar on "Entertainment in India"	Ms. Jhelum Paranjpe –Noted Odissi Danseuse, Smitalay Academy of Dance
7.	Perfumery and Cosmetology		Annual International Scientific seminar "PICASSA II"	
8.	Special Cell	24th February	State Level Conference on "Inclusive Growth of India	Dr Bhalchandra Mungekar, MP Mr Kumar Ketkar, Senior Jounnalist Mr Dinesh Kamble, Deputy Registrar, Univ of Mumbai
9	Zoology		Biodiversity and conservation	Dr Parvish Pandya BHNS
10.	*Botany*	7-9th Nov	37th All India Botanical Conference of Indian Botanical Society on "Biodiversity and Climate Change"	Dr P Singh-Director, Botanical Survey of India, Kolkata Dr B Pashupati - Former Chariman, National Biodiversity Board Prof H Devraj - Vice Chairman,UGC Dr M Aslam - Advisor, DBT Dr E Bharucha, Chairman, Maharashtra State Biodiversity Board Dr J A Khan, Chairman, Gujrat State Biodiversity Board Dr A Supate, Principal Scientist, MPCB Prof T Pullaiah, President Indian Botanical Society Prof R S Dwivedi, BHU, Varanasi Prof P B Kavi Kishore, Osmania University, Hyderabad Dr D A Patil, Dhule Dr S Karuppusamy, Madurai Dr R Welukar –VC, Mumbai Univ.
11.	Chemistry		National Symposium on 'Emerging Trends in Chirality, Medicinal Chemistry & Perfumery &	Dr S Chatopadhyay - Head, Bio-organic Div., BARC Dr. Bijoy Kundu - Head, Medicinal Chem., CDIR,Lucknow Dr A V Karnik, Head, Dept. of Chem. Univ.

Note: Rows 10 and 11 are under the period "2014-2015" (shown vertically in the leftmost column).

			4th Feb.	Perfumery	of Mumbai Dr A K Saxena, Emeritus Scientist, CDIR, Lucknow Prof K K Kapoor, Jammu Univ. Dr Ram Vishwakarma -Director, Indian Inst. Of Integrative Medicine, Jammu Dr Mrunal K Kundu - Associate Director, TCG Life Sciences, Kolkata Prof S Kotha - Dept of Chem IIT-B
			3rd -26th Feb.	PG Lecture series	Prof I Nambbothiri - Dept of Chem. IIT-B Dr B M Bhanage - Head, Applied Chem. Division, ICT, Mumbai Dr Ramakant Harlalka –Director, Nishant Aromas, Mumbai Prof K P Kaliappan - Dept. of Chem, IITB
			8-11th April	Basic Concepts in Organic Chemistry	Dr S J Gharpure –Dept of Chem, IITB Prof R Sunoj - Dept of Chem, IITB Dr SJ Gharpure –Dept of Chem, IITB
12.	History		11-12th Dec.	National Conference on "Revisiting World War I"	Vice Admiral Pradeep Chauhan Maj.Gen. Shashikant Pitre Prof. N. Bhattacharya Dr. Ramesh Kambli Dept of Sociology Mumbai University Mr. Amrut Gangar, Film Critic Prof. Uttara Sahasrabuddhe, Dept. of Political Science Mr.Satish Sahaney, IPS(Retd)
	IQAC		2nd Mar.	Quality Circle and Graduate Attributes	Dr.S.S.Mantha-Former Chariman , AICTE, Director-UMQAC Dr.M.R.Kurup-Secretary, KET Dr.S.Deo,Principal-Gogate College,Ratnagiri Dr.N.M.Welling,Pro-VC,NMIMS Dr.G.Hegde-NAAC Dr.S. Mantri-Principal,NMCollege,Mumbai
13.	Science Association		28th Feb.	Heroes of Science in India	Prof. K.Bhattacharya-Bhatnagar awardee,Indian Association for the Cultivation of Science, Kolkata
14.	Chemistry		11-13th Aug.	Pericyclic reactions	
			9-11th Dec.	Spectroscopy	Prof.K.P.Kaliappan R.S.J.Gharpure
			28-29th January	Process Oriented Guided Inquiry learning	
			1st -4th Feb		Dr. S.Kulkarni-IITB Dr.S.Kale –A.S.Garware College, Pune
				PG Lecture Series	Prof. Kelly Butler-Head, Dept. of Chem. Chestnut college, Philadelphia, USA
			14-17th		

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		March	PG Lecture Series	Dr.A.Chowdhury-IITB Prof.A.Datta-IIT-B Prof.A.Kumbhar-Univ. of Pune Prof. K.P.Kaliappan-IITB Dr. S.J.Gharpure –IITB Dr.S.Kulkarni -IITB
			PG Lecture Series	
	Commerce	13th Feb.	Current Scenario-Ease of Doing Business in India Initiative, Challenges & Opportunities"	Prof. Vijayan Pankajakshan, Dean, HR, Welingkar Institute of Management Mr.Mohan Tanksale, CEO, IBA Mr. M K Srinivasan, Alchemist Management Consultancy Dr Ramprakash Nair, Academician and Lawyer Mr Apurva Mehta, Corporate Finance Specialist Mr.V A Walawalkar, Academician and Environmentalist
	Economics and Sociology	27-28th Aug.	National Conference on "Child Labor: Issues and Challenges"	Mr. K.Nilendu-Programme Head ,Development Support,CRY Dr. N. Hatekar-Director, Dept. of Economics, Univ. of Mumbai Dr.P.G.Jogdand, Prof. and Head, Dept. of Economics, Univ. of Mumbai Dr. U.Sahoo-Director, School of Social sciences, Univ. of Nanded Ms. M. Vyas-Chief executive Officer, Apne Aap Women's Collective, Mumbai Ms. P. Nair-Chairperson, Salam Balak Trust-New Delhi Advocate M. S. Thakur-Govt. Pleader, High court, Mumbai Dr.R.Dhawan- Ex.Director, Center for Study of Sociology and Secularism
2016-2017	Chemistry	26-29th Sept.	Pericyclic reactions	Prof.K.P.Kaliappan-IITB Dr.S.J.Gharpure -IITB
	Perfumery and Cosmetology		Annual International Scientific seminar "PICASSA III" – theme was "360 Degree Cosmetics".	

3.7.5   How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated

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a) **Curriculum development/enrichment b) Internship/ On-the-job training**
c) **Summer placement d) Faculty exchange and professional development**
e) **Research**
f) **Consultancy g) Extension h) Publication i) Student Placement j) Twinning programmes**
k) **Introduction of new courses l) Student exchange m) Any other**

The college has formal MoUs and agreements for conducting research, resulting from linkages with various industry and institutions. Other projects are collaborative.

- A tripartite MoU with Punjab State Council for Science and Technology (PSCST) andDepartment of Biotechnology, Govt. of India.
- MoU with Technology Center for two curriculum enrichment courses – Advanced Diploma in Fashion Designing and Advanced Diploma in Interior Designing
- MoU with Career Vision Aviation Academy
- MoU with Unilever
- MoU with Spoken Tutorials, IIT-B
- Bioamber
- Satyavathy Biolife
- S H Kelkar and Company

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

- Systematic efforts to establish agro techniques for aromatic crops like Patchouli, Rose scented Geranium and Citronella is done in collaboration with agricultural institutes for farmers in Maharashtra Karnataka and Punjab
- Essential oil is available to perfumery industry
- PGDPCM conducts training programs in cosmetic formulations for spa owners and entrepreneur

Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.

Scientific Research Center was developed as a special purpose vehicle for high end research in emerging field of Biotechnology as well as to bring about forward and backward integration. Industry Academia interface is established through the facility.

Concept of Lab to Land is put in practice by helping the farmer community by handholding.

As the research facilities were available for all teachers, research culture took deep roots and that got extended to other faculties.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

The college is built on a total land area of 1,17,466.5 sq. feet (10913 sq. Meters) and the college campus had about 2,25,000 sq. feet (20903 sq. meters) built up area in 2012. Since the previous reaccreditation in 2012, the college has added around 4500 sq. feet (418 sq. meters) to the infrastructure. The management has ensured that facilities are created to match academic growth.

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The college has a well defined policy for the creation and enhancement of infrastructure to facilitate effective teaching and learning. The policy is formulated by the College Executive Committee and IQAC. The Principal and the IQAC are entrusted with the responsibility of implementation and monitoring.

The up-gradation of infrastructure in tune with the growing demands is the focal point of the policy. Grants from UGC and other funding agencies allocated for infrastructure development are fully utilized. In case of deficit, the management provides financial support.

College has the policy of maintaining infrastructure through AMCs. The college employs the services of building contractor, carpenter, electrician, and plumber and a housekeeping agency for the upkeep of facilities.

Care is also taken to see that physical facilities are environment friendly, optimally utilized with good clean ambiance.

4.1.2 Detail the facilities available for
a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

The college has been designed and developed to provide adequate space for all curricular and co-curricular activities.

- **Classrooms:** There are 47 well ventilated, naturally illuminated and well furnished classrooms of various sizes suitable for lectures and tutorials that accommodate students ranging from 10 to 120. They are spread over four floors.

- **Technology enabled learning spaces**:
  - **Two Info tech laboratories** are equipped with modern hardware and software. Eight new machines have been added in these labs after 2012.
    Lab-I: Area of 40 ft x 30 ft; three servers; 45 computer terminals; seating capacity of more than 80
    Lab-II: Area of 25 ft x30 ft; 35 computers terminals; seating capacity of more than 60
    The labs are equipped with generator back up and UPS.
  - **E-Learning Laboratory:** with 28 computer terminals and a smart-board. The laboratory is established for the conduct of on-line courses and examinations
  - **Language laboratory:** State of the art language laboratory is equipped with 13 computer terminals and ORELL software. Courses in English Language Enhancement (basic and advanced), soft skills and personality development are conducted in the lab
  - **GD Room**: specially designed with a round table seating arrangement to organize GDs, presentations and courses in interview techniques
  - **Commerce Laboratory:** equipped with 2 computers and a smart TV. The lab was established to bridge the gap between theoretical and practical approaches to commerce curriculum. Skill oriented courses are conducted in the lab
  - **Library**: Web OPAC facility is provided to staff and students. A separate section - *Vaze Vision* has been set up for the visually challenged. It is equipped with three computers installed with audio software
  - **Perfumery and Cosmetology departmental library**: equipped with 09 computer terminals with internet facility. JAWS software is installed on one of the terminals for the use of the visually challenged
  - **Multimedia Room:** air conditioned, equipped with 23 computer terminals, internet facility and a seating capacity of 50
  - Science departments and the staff common room have computer terminals with internet facility to enable the teachers to access e-resources

- **Seminar Halls:**
  - **Smt. Radhabai Vaze Auditorium:** 250 seating capacity, air conditioned with excellent acoustics, LCD projector and Tele conferencing facility. Located on the ground floor
  - **Mini Audi:** 125 seating capacity, air conditioned with excellent acoustics, LCD projector, smart TV and teleconferencing facility. Located on the first floor, this auditorium was set up post last accreditation
    Both the auditoriums have generator back up.

- **Conference room:** The air-conditioned conference room with round table seating arrangement and capacity of 40 persons with desktop public address system. Tele- conferencing and audio visual facilities are also installed in the conference room.

- **Tutorial spaces:** Small classrooms are allotted for engaging tutorials for subjects such as Mathematics and English
  Social Sciences and Humanities departments also engage with small groups of students in the departmental cubicles in the staff room.

- **Laboratories:**
  - **Chemistry:** has an area of 5585 sq. feet including6 laboratories, store room, preparation room and acid room, HOD room and staff room. The laboratories include mandatory facilities such as safety shower, eye wash and fire safety devices
  - **Physics:** has an area of 5585 sq. feet including 3 laboratories, HOD cabin, 2 staff rooms and a dark room
  - **Biology (Botany and Zoology):** has an area of 5585 sq ft. comprising 5 laboratories, 2 HOD cabins, a staff room and a store room
  - **Biotechnology:** has two laboratories, a staff room and a store room
  - **Perfumery and Cosmetology:** has 4 air conditioned laboratories, a staff room, air conditioned store rooms and a library which has a collection of rare books and journals on perfumery and cosmetology
  - **Psychology:** equipped with a computer, printer and LCD projector. The lab also has a coglab software

- **Botanical garden:** The college building is surrounded by a well maintained botanical garden. This garden comprises aromatic, medicinal and ornamental plants. The trees and plants are numbered and have signage of their botanical and common names. Saplings of many such plants produced in the garden.

- **Green house:** In the campus is extensively used for plant tissue culture. All plantlets developed in PTC laboratory, after hardening, are brought to the controlled environment of the green house for acclimatization.

- **Specialized facilities for research:**
  - **Advanced Research in Natural & Synthetic Chemistry Laboratory:** additional research facility in Applied Chemistry, comprising of a PhD research laboratory, instrumentation laboratory with modern instruments and a storeroom
  - **Plant Tissue Culture Laboratory:** is an additional laboratory admeasuring 200 sq ft of lab space and a storeroom
  - **Animal Tissue Culture Laboratory:** is an additional laboratory and is equipped with ultrapure water system and Franz diffusion apparatus
  - **Central instrumentation centre:** created with an objective to enhance facilities for research in basic and applied sciences. The centre is equipped with Shimatzu HPLC system, MPLC system, Rotary evaporator, UV-visible spectrophotometer

- **Perfumery and Cosmetology Department:**
  The department has four air conditioned laboratories

  - **Perfumery Laboratory**- The laboratory enables identification, blending and preparation of perfumery products. The laboratory is equipped with steam bath and 10 digital weighing balances.
  - **Decorative Cosmetic Laboratory** - The laboratory is equipped with 10 homogenizers, 10 digital weighing balances and 5 hotplates for the manufacturing of cosmetic finished products. This laboratory also has a stability chamber, refrigerator, bulk load analyzer and a compressing machine for compacts and eye shadows.
  - **Personal Care Laboratory** - The laboratory is meant for manufacture and analysis of raw materials as well as finished product. It is equipped with 5 homogenizers, 4 hot plates, 5 digital weighing balances, 2 analytical balances, 2 desiccators, Oven, water distillation units, solvent extraction units and stirrers.
  - **Instrumentation Laboratory** has the following instruments:
    pH meter, Brookfield's Viscometer, Brookfield's Rheometer, Spectrophotometer, Gas chromatograph, Muffle Furnace and Flame apparatus

- **Departments of Biotechnology, Botany, Chemistry, Physics, and Zoology** have dedicated laboratory space for research

- **Scientific Research Centre:** is a research extension initiative of the institution. The SRC facilities are available to the research scholars of the college. SRC is DSIR recognized, FDA approved and CRISIL rated

- **Specialized facilities** such as Language laboratory, Commerce laboratory, e-learning laboratory, GD Room, Vaze Vision, various research laboratories, seminar halls equipped with modern technology, Green House, Shade house and the Botanical Garden are utilized for effective teaching - learning.

b) Extra-curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, public speaking, communication skills development, yoga, health and hygiene etc.

The vision and mission of the college clearly states the importance of the over-all personality development of the students. With this in mind, the college has taken extra efforts to provide adequate facilities to sports and other extra-curricular activities.

- **Sports**: The college has an open ground and an indoor gymkhana. These spaces encourage active participation of students in outdoor and indoor games. The College also hires the Mulund Gymkhana ground for the annual sports day. Eight coaches have been appointed to train students in the various games.

The following is the list of outdoor and indoor games:

- Outdoor games: basket ball, kho-kho, kabbadi, handball, volleyball, ball- badminton, cricket, shooting ball, ring foot ball and foot –ball. College has a separate badminton court.
- Indoor games: Chess, Table-tennis, carrom, judo, kudo, karate and wushu

- **Gymnasium:** well equipped with exercise cycles, stepper, and equipments for weightlifting and power-lifting.
- **Auditorium:** 2 auditoriums of 250 and 125 seating capacity form the hub of many student centric activities of the college. (Refer to 4.1.1)
- **NSS:** a dedicated room functions as the NSS unit office
- **Cultural activities:** The college has an Student Faculty Room for planning and executing the college festivals and extra-curricular activities. The foyer space on the second floor is used extensively as practice area for music, dance and theatre events. The auditoriums are also used for practice and performances. The college ground and the permanent stage are used for annual day functions and inter collegiate event – Dimensions
- **Public speaking, communication, skills development:** The G D Kelkar Skill Development Centre and Finishing School has been established for skill enhancement. Various courses to this effect are conducted in the Language laboratory, GD room, Commerce laboratory and auditoriums. Other than these, classrooms are used on a need based requirement
- **Yoga:** Yoga Day is celebrated enthusiastically on 21st June every year. The gymkhana is used for lec-dem sessions on yoga by instructors from *Ambika Yog Kutir* and some of the teachers who received training for the same.
- **First-aid room:** A conveniently located room on the ground floor has been earmarked as a first aid room, equipped with a bed and basic first aid facility and a wheel chair

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed / augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any)

Academic growth and infrastructure development go hand in hand. The infrastructure is optimally utilized in the following ways:

- College has a six day week, working in two shifts from 7.00 am to 5.20 pm
- Academic Calendar Committee prepares a master timetable to ensure optimum utilization of spaces and facilities.
- The auditoriums are utilized for the workshops/seminars/guest lectures and cultural events. The booking registers are maintained to avoid overlap of events.

- College premises are used for University Examinations, examination of The Institute of Charted Accountants, other competitive examinations
- C.A. students and Ex-students are given membership to college library. They use the reading room facility up to 10.00 pm every day.
- Students from neighboring schools and colleges avail the laboratory facility of the college for projects and for MSc and PhD research respectively
- College premises are used for *Vidhansabha* and *Loksabha* elections and polling officers' training

IQAC, Heads of the Departments, Academic Calendar Committee, Librarian and Registrar suggest the need for infrastructural up-gradation before starting of new courses and for repairs, renovations, and construction. These suggestions are discussed in College Executive Committee implemented.

The following infrastructural facilities have been augmented since last accreditation:

Sr. No.	Infrastructure	Amount in Rupees
1.	New wing on the fourth floor	50,36,678/-
2.	Ten new classrooms	75,648/-
3.	New air-conditioned Auditorium with 125 seating capacity and net connectivity	66,000/-
4.	Installation of solar panel with 10kw capacity with net metering	7,50,000/-
5.	Language laboratory And Commerce Laboratory	9,45,494/-
6.	E-learning Laboratory	29,51,081/-
7.	Renovation of library	1,13,587/-
8.	Renovation of examination cell with in-house printing facility	9,000/-
9.	Dedicated photocopier machines for University examinations	2,32,239/-
10.	Gymkhana renovation with staff cabins	30,185/-
11.	Piped gas from Mahanagar Gas Limited for all laboratories and canteen	15,07,277/-
12.	Renovation of Chemistry laboratory	67,445/-
13.	Refurbishment of Vice Principals' cabins	25,350/-
14.	Installation of CCTVs	3,26,526/-
15.	Installation of solar lights	1,05,000/-
16.	Electronic display in foyer	95,000/-
17.	Smart Card Readers	1,20,000/-
18.	Digital Podiums	99,901/-
19.	Split ACs	1,80,318/-
20.	Water cooler and Purifier	1,53,760/-
	TOTAL	**1,28,90,489/-**

In addition to the above mentioned facilities,
- Central Instrumentation Center has been established
- Psychology lab shifted to larger room
- Separate air conditioned space for centralized assessment of answer books
- More storage space in staff room

Following equipments have been added by various departments in last five years:

Chemistry:		
UV Visible Spectrophotometer	Muffle Furnace	Vertical Muffle Furnace
KBr press of 15 ton Pressure	Hot plate (Temp up to 350 ˚C)	Two Catalytic Bed Reactors
Vacuum Pump	Water Deioniser	Turbidity Meter
Physics:		
Polishing Machine	Vacuum Desiccators	Digital Current Meters
CRO Dual Trace	Storage Oscilloscope	8055 Kits
Ballistic Galvanometer	Constant Derivation Spectrometer	Vacuum Pumping System
Digital coating Thickness Tester	CRO Single Trace	8051 Kits
Laser Distance meter		
Biology:		
LCD digital Microscope	Vertical Gel Electrophoresis	Horizontal Gel Electrophoresis
Fluorescent microscope	Stereomicroscope	Microtome
Peristaltic Pump		
Plant Tissue Culture:		
Photo Bioreactors	Vertical Gel Electrophoresis Equipment	Super spin Centrifuge
PCR System	Bio Freezer	CO_2 Incubator

4.1.4   How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

The college is concerned about students with special needs. Appropriate action is taken to address such needs. Some of the measures taken are as follows:

- Ramps in the building for the movement of the wheel chair within the college premises for the differently-abled students.
- Students with physical disabilities are allowed the use of elevators.
- For students with severe disabilities, efforts are made to allocate class rooms on the ground floor.
- College library has a separate section for visually challenged students with three computers (and headphones) with dedicated screen reader - NVDA (Non Visual Desktop Access) which is a free screen reader that also provides global speech support to computer system.
- Specially designed toilet block for the physically disabled students

4.1.5 **Give details on the residential facility and various provisions available within them: Hostel Facility, Recreational facilities, gymnasium, yoga centre, etc. Computer facility including access to internet in hostel, facilities for medical emergencies, Library facility in the hostels, Internet and Wi-Fi facility, Recreational facility-common room with audio-visual equipments, Available residential facility for the staff and occupancy, constant supply of safe drinking water and Security.**

The management owns a flat near college which is utilized for housing guests and students. 4 PG students of PGDPCM have availed this facility. The college does not have any hostel facility.

4.1.6 **What are the provisions made available to students and staff in terms of health care on the campus and off the campus?**

- College has first aid room with basic facilities
- A doctor is available on call
- College vehicle is available for transport of student and staff in case of emergency.
- First-aid kit is maintained in all science departments, gymkhana, and administrative office.
- All students of the college are covered under group insurance scheme.
- Medical group insurance scheme for Non teaching staff partially funded by the Management
- Health camps are conducted periodically by NSS unit of the college.
- Counselor is available in the campus to address psychological issues of the staff and students
- Faculty and administrative staff of the college have undergone first line responder training in medical emergencies and disaster management by trainers of Disaster Control Unit of Municipal Corporation of Greater Mumbai.
- Safe drinking water for staff and students with periodic cleaning of tanks
- Ensuring of hygiene through regular cleaning of classrooms, college premises including all toilets by 'Cleansco'an external housekeeping agency. The expenses are borne by the management. (88 including 45 for girls / ladies and 39 for boys / men and 4general)
- Fumigation of college campus by the BMC as and when requested
- Canteen Committee ensures hygiene and safety standards in the canteen

4.1.7 **Give details of the Common Facilities available on the Campus Spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.**

The details of the common facilities are as follows:

Sr. No	Common Facilities	Location
1.	IQAC room	Third floor
2.	Grievance Redressal Cell	Ground Floor
3.	Women's' Development Cell	Third floor
4.	Counselling Cell	Second floor
5.	Career Guidance and Placement Cell	Second floor
6.	Canteen	Ground floor
7.	Drinking water facility	Every floor
8.	Auditoriums	Ground and First floors
9.	Multimedia Room	First floor
10.	Conference Room	Ground floor
11.	NSS Room	Second floor
12.	VRG Room	Second floor
13.	Room for Administrative Staff	Ground floor
14.	Student Faculty Room	Ground floor
15.	Students' Council	Ground Floor
16.	Gymkhana and Gymnasium	Ground floor
17.	Girls Common Room	Ground floor
18.	Boys Common Room	Ground floor
19.	First Aid Room	Ground floor

4.2   Library as a Learning Resource

4.2.1   Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, the library has an Advisory Committee. The committee meets at regular intervals to discuss various issues related to library facilities, services and activities. The library committee also looks into the departmental budgetary allocation and purchase books and periodicals on the basis of requisitions made by the departments. The committee works towards improving the overall library infrastructure and resources to make it user friendly.

The composition of the Library Committee is as follows:
- Chairperson – Principal
- Convener – A Senior Teaching Faculty from Degree College
- 8 Teaching Faculty Members
- Librarian
- Assistant Librarian
- Members of Library Staff – Library Clerks (02) and Library Attendant (01)
- Two Student Representatives from the Students Council are invited for the meetings

Significant Initiatives implemented by the Committee are as follows:

- Co-opting non teaching staff into the Library Committee with the objective getting feedback on services and suggestions on improving the efficiency
- Revamping of sections:
  - Periodical section has been revamped and re-organized with two types of displays for periodicals; one fitted on the walls and the other, rotating display units. Comfortable seating arrangement for 25 has been made in the Periodical section
  - Reference section has been re-designed to allocate dedicated spaces for the Visually Challenged, Internet browsing and a separate Faculty reading area
  - Establishment of 'Vaze Vision' for the Visually Challenged with 3 dedicated computers with headphones and screen reading software audio software
- Open access has been introduced in the Reference and Periodical sections. PG and Research students also avail of this facility in the main library

4.2.2 Provide details of the following:

Total area of the library (in Sq.Mts.): 754.51sq. mts (8113 sq.ft)

Total seating capacity: 291 (Students - 283, Staff – 8)

Working hours (on working days, on holidays, before examination days, during examination days, during vacation):

- On all working days – 7.00 am to 5.00 pm
- During Vacation – 9.00 am to 5.00 pm
- One classroom on the Ground Floor (Room No. 101) is kept open for students from 5.00 pm to 10.00 pm for studying after library hours throughout the year.

Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)
The library is divided into 8 separate sections, viz.: Main Library which includes a Study Room Section, Home Issue Section and the Main reading hall, Reference Section, Periodical Section, Self Financing Courses Section, PGDPCM Section, E-Resources Section (Internet Section), Vaze Vision – Centre of E-Resources for Visually Challenged, and the Multimedia Section.
The Main Library, Periodical Section, Reference Section, Self Financing Courses Section, and PGDPCM Section have separate reading halls.

A separate E-Resources Section (internet browsing section) with 1 computer is available for students and staff.

One 1Gbps Network switch has been installed in the Reference Section for faster network connectivity.

4.2.3 **How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.**

- The college makes a budgetary allocation for the library. The library committee allocates the budget for purchase of books, subscriptions to periodicals, journals and newspapers. The budget for purchase of books is then allotted to each department. Budget is also allotted for purchasing general reading and reference books
- Purchase of books and print journals is based on requisitions received from the departments. These requisitions are based on the current subject-wise requirements related to changes in the syllabi and changing trends in the different subjects
- Print and Online Catalogues of different renowned publishers are also made available to the faculty members for recommending books
- Display of new arrivals
- The college library subscribes to N-LIST program of INFLIBNET. User awareness programs are organized to raise the awareness about N-LIST resources

Library holdings	2012-13		2013-14		2014-15		2015-16	
	Num	Total Cost	Num	Total Cost	Num	Total Cost	Num	Total Cost
Textbooks	1,036	1,17,641	1,523	1,80,642	1,396	1,64,429	2,031	2,32,727
Reference Books	977	5,75,922	667	3,13,191	358	1,92,553	306	96,744
Journals/ Periodicals	107	97,341	125	1,45,043	126	1,39,269	125	1,54,337
e-resources (through N-LIST) (a)E-Jour	3,000	5,000	6,000	5,000	6,000+	5,000	6,000+	5,725
e-resources (through N-LIST) (b) E-books	51,000	-	97,000	-	97,000	-	1,35,000	-
Newspapers	18	34,469	19	38,299	19	40,306	19	41,481
Braille Books	-	-	-	-	-	-	24	3,702
Total Expenses		8,30,373		6,82,175		5,41,557		5,34,716

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?
OPAC
Electronic Resource Management package for e-journals
Federated searching tools to search articles in multiple databases
Library Website
In-house/remote access to e-publications
Library automation
Total number of computers for public access
Total numbers of printers for public access
Internet band width/ speed
Institutional Repository and Content management system
Participation in Resource sharing networks/consortia (like INFLIBNET)

OPAC:
OPAC is available on one computer for students near the entrance to the Main Library. OPAC is also available on all the computers in the E-resources section. Web OPAC is accessible through the internet through the link provided on the Library website (which is linked to the College website). It can be accessed on PCs, Laptops as well as on mobiles.

Electronic Resource Management package for e-journals:
College subscribes to N-LIST program of INFLIBNET for access to e-journals and e-books. Links to Open Access journals of reputed international publishers have been made available on the Library website.
Federated searching tools to search articles in multiple databases:
Yes, through N-LIST.

Library Website:
- A separate library website has been developed and is operational since December 2015. Its URL is http://vazecollegelibrary.weebly.com. It is also linked to the College Website.
- The website has exhaustive information about the library. It highlights the library collection, services provided, access to WebOPAC, access to E-Resources (subscribed as well as open access), e-learning modules, rules and regulations, library notices, gallery of photographs highlighting the library activities, information about Library Committee, Library staff and useful links. The website is updated on a regular basis.

In-house/remote access to e-publications:
Access available to subscribed N-LIST e-resources and open access e-publications

Library automation:
- The library network comprises one server and 10 nodes. It uses the SOUL 2.0 Software developed by INFLIBNET. Online Public Access Catalogue (OPAC) provides access to the bibliographic database. All the students are

issued bar-coded library cards (2 cards – 1 Home Issue Card & 1 Study Room Card) at the beginning of the academic year. Majority of the books in the active collection have been bar-coded. New arrivals are processed, bar-coded and made available for circulation in their respective sections. Books not in regular use, i.e. the passive collection, are being bar-coded in a phased manner. Circulation activities to students as well as staff have been automated.

- A link to the WebOPAC has been provided on the Library website for remote access (away from campus). Users can access the library database and search for books and they can also check the books borrowed by them. The users can access this information from home or from any place where internet connectivity is available.

Total numbers of printers for public access: Available on demand
Internet band width/ speed: 2Mbps Broadband connection from MTNL
Institutional Repository and Content management system: NA
Participation in Resource sharing networks/consortia (like INFLIBNET): Yes, through INFLIBNET

4.2.5 **Provide details on the following items:**
- **Average number of walk-ins**
- **Average number of books issued/returned**
- **Ratio of library books to students enrolled**
- **Average number of books added during last three years**
- **Average number of log into OPAC**
- **Average number of log into e-resources**
- **Average number of e-resources downloaded/printed**
- **Number of information literacy trainings organized**
- **Details of "weeding out" of books and other materials**

Average number of walk-ins:

	2012-13	**2013-14**	**2014-15**	**2015-16**	**Average of 4 years**
Total Walk-ins	12,186	8,225	26,401	28,233	18,761

Average number of books issued/returned:

	2012-13	**2013-14**	**2014-15**	**2015-16**	**Average of 4 years**
Total Books Issued / Returned	14,370	19,736	16,880	15,634	16,655

Ratio of library books to students enrolled:

	2012-13	**2013-14**	**2014-15**	**2015-16**	**Average of 4 years**
No. of Students enrolled	3,352	3,378	3,636	3,879	3,561
No. of Books Purchased	2,013	2,190	1,754	2,337	2,074
Ratio	1:6	1:6.5	1:5	1:6	1:6

Average number of books added during last three years:

	2012-13	2013-14	2014-15	2015-16	Average of 4 years
Total Books added	2013	2190	1754	2337	2074

Average number of log into OPAC: Data not available due to technical difficulties

Average number of login to e-resources: Data of pages viewed is available per log-in id from INFLIBNET.

	2012-13	2013-14	2014-15	2015-16	Average of 4 years
Log-ins	05	24	12	52	23.25

Average number of e-resources downloaded/printed:

Year	2012	2013	2014	2015	2016	Average Usage
Downloads / Page Views	3,142	18,474	8,795	12,081	15,970	11,692

Number of information literacy trainings organized: Once in a year
Details of "weeding out" of books and other materials:
Books based on old syllabi and which are in bad physical condition, are identified for weeding in consultation with the respective Heads of the Departments. These books are then weeded out after consultation with the Library Committee and the Principal. Periodic weeding out process is carried out to create storage space for new acquisitions.
For instance, in 2015-16, the library weeded out 538books and donated them to S.P.R. Jain Kanyashala, Ghatkopar (West), Mumbai 400086.

4.2.6   Give details of the specialized services provided by the library

Manuscripts: Not available since college is only 32 years old
Reference: Reference books are issued in the Reading Room only. Queries of all students and teachers are attended to and the desired information or reading material is provided. Students and teachers are also encouraged to use e resources in the Reference Section whenever necessary.
Reprography: Photocopying facility available in college premises
ILL (Inter Library Loan Service): With VPM's R.Z. Shah College, Mulund (East)
Information Deployment and Notification:
• Important information published in the newspapers is displayed in the form of clippings on a regular basis on Library Display Board located in foyer
• Library displays photos of freedom fighters, social reformers, national figures, and other inspirational personalities along with their biographies in foyer, on their birth and death anniversaries
• On the notice board located on the first floor the library displays published information on specific themes, occasions, topical issues pertaining to social, economic, scientific, environmental, literary and national

importance
- Students are informed about various library activities through notices, college website and library website

Download: All data available on N-LIST e-resources is available for downloading. On an average, 11,600 (details as given in Table given in 4.2.5) downloads.

Printing: Printing facility available on request.

Reading list/Bibliography compilation: Bibliographies/Reading Lists are made available through the Library Software SOUL 2.0 as per user requests. They are provided in PDF format usually on the USB of the users. Since the data is constantly updated in the software due to addition of new books, maintaining subject wise bibliographic registers has been discontinued. Old bibliographic registers have been kept for records.

In-house/remote access to e-resources: In-house / remote access to E-Resources is available through N-LIST for paid resources and through links provided on Library Website for open access resources.

User Orientation and awareness:
- Orientation Program for students and parents in the beginning of the academic year.
- Program organized for faculty to learn to access e-journals and e-books through N-LIST.
- Library visits arranged for students
- Comprehensive information about the library is provided through the college prospectus and also on the library website.
- Book exhibitions are organized to promote reading habit.
- *Vachan Prerna Divas* is observed on 15th October to mark the Birth Anniversary of Late President Bharat Ratna Dr APJ Abdul Kalam. On this day, books written by and on Dr Kalam and other key reference books in the library are displayed.
- Theme-based display of books

Assistance in searching Databases:
Students are assisted in searching the Library database in the SOUL Software. Guide Cards have been displayed above the computers used for OPAC so that the students get step by step instructions on accessing the library database. Personal assistance, as per user need, is provided for searching information through N-LIST as well as through different search engines on the internet.

INFLIBNET/IUC facilities: Yes. Library is connected to INFLIBNET for two purposes:
- For Library automation through the Software – SOUL 2.0, and
- For accessing e-Resources (e-books and e-journals) through N-LIST program

4.2.7 **Enumerate on the support provided by the Library staff to the students and teachers of the college:**
- Library staff helps the students and teachers in locating the required library resources (books, journals, magazines, etc.)
- Question paper sets of previous examinations are compiled and provided

to the students as hard copy or soft copy

- Assistance is also provided for searching books through OPAC and in searching e-resources through N-LIST and open access resources

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details:

- Vaze Vision: Centre of E-Resources for the Visually Challenged has been set up through CSR
- The sections of library and passages are broad for easy mobility for physically challenged students

4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services.(What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?):

College gathers suggestions and feedback pertaining to the library with the help of suggestion boxes. The suggestions are passed on to the Librarian and the Library Committee. During 'Meet your Principal' program organized by Students Council, actions taken on students' suggestions are reported.

4.3 IT Infrastructure

4.3.1. Give details on the computing facility available (hardware and software) at the institution. Number of computers with Configuration (provide actual number with exact configuration of each available system), Computer-student ratio, Stand alone facility, LAN facility, Wi- fi facility, Licensed software, Number of nodes/ computers with Internet facility, Any other

Sr No.	USER NAME	CPU	RAM	HDD	Stand Alone/LAN	WiFi/ Internet
1.	Principal	Lenova I3 4.06 GHz ALL IN ONE	4GB	1TB	LAN	Internet
2.	Vice Principal Jr.	C2D 2.2GHz	2GB	160 GB	Stand Alone	Internet
3.	Vice Principal Sr.	I5, 4.06 GHz	4GB	500 GB	Stand Alone	Internet
4.	HOD (Physics)	Lenova I3 4.06 GHZ ALL IN ONE	4GB	1TB	Stand Alone	Internet
5.	Staff	C2D 2.2GHZ	2GB	160 GB	Stand Alone	Internet
6.	Students	C2D 2.2GHZ	2GB	160 GB	Stand Alone	---
7.	HOD Chemistry	INTEL I3	2GB	250GB	Stand Alone	Internet
8.	Psycology	INTEL I3	2GB	500GB	Stand Alone	Internet
9.	Adjunct Professor	2.4GHZ	1.5GB	120 GB	Stand Alone	Internet
10.	Adjunct Professor	INTEL I3	2GB	250GB	Stand Alone	Internet
11.	VCTS	C2D	2 GB	500 GB	Stand Alone	Internet
12.	Gymkhana	PIV C2D 2.2GHZ	2GB	160 GB	Stand Alone	Internet

13.	Staff Pc 1	I5	2GB	320GB	Stand Alone	Internet
14.	Staff Pc 2	I5	2GB	320GB	Stand Alone	Internet
15.	Exam Room	I5	4GB	1TB	LAN	Internet
16.	Exam Room	QUAD CORE	4GB	250 GB	LAN	Internet
17.	Exam Jr Room	I5	2GB	500 GB	LAN	Internet
18.	Exam Room	I5	4GB	500GB	Stand Alone	Internet
19.	HOD Zoology	C2D 2.2GHZ	2GB	160 GB	Stand Alone	Internet
20.	HOD Botany	I5	4GB	500GB	Stand Alone	Internet
21.	Laboratory Assist	3.00GHZ	512MB	80GB	Stand Alone	Internet
22.	Laboratory Assist	C2D 2.2GHZ	2GB	160 GB	Stand Alone	Internet
23.	Staff Room	C2D 2.2GHZ	2GB	160 GB	Stand Alone	Internet
24.	Backup	P4 2.26 GHZ	1GB	1TB	Stand Alone	Internet
25.	Deputy Director	I5 3.64 GHZ	4GB	500 GB	LAN	Internet
26.	Office	C2D LENOVA	2GB	500 GB	LAN	Internet
27.	Consol	C2D LENOVA	2GB	500 GB	LAN	Internet
28.	Student PC	3.00 GHZ	640MB	80GB	Stand Alone	Internet
29.	Laboratory	2.4 GHZ	256MB	80 GB	Stand Alone	
30.	Students	1.8 GHZ	256MB	40 GB	Stand Alone	Internet
31.	Secretary , Dr Kurup	AIO	2GB	320GB	Stand Alone	Internet
32.	CA Bhorkar	C2D 2.8	2GB	160GB	Stand Alone	Internet
33.	GC Instrumentation .PC	PIII	128MB	40GB	Stand Alone	
34.	PGDPCM	PIV 3GHZ	256MB	40GB	Stand Alone	Internet
35.	Librarian	I3	2GB	500 GB	LAN	Internet
36.	Students	I3	2GB	500 GB	Stand Alone	Internet
37.	SFC Library	C2D 2.64 GHZ	2GB	260 GB	Stand Alone	Internet
38.	Assistant Librarian	C2D 2.64 GHZ	2GB	260 GB	LAN	Internet
39.	Clerk	C2D 2.64 GHZ	2GB	260 GB	Stand Alone	
40.	Counter	I5 4.46 GHZ	4GB	500 GB	Stand Alone	
41.	Counter St	I5 4.46 GHZ	4GB	500 GB	Stand Alone	
42.	Counter	I5 4.46 GHZ	4GB	500 GB	Stand Alone	
43.	Server	Lenovo X 156	8GB	1 TB	LAN	
44.	SFC Staff	I5 3.36 GHZ	8 GB	1 TB	Stand Alone	
45.	NSS	P4 2.26 GHZ	512	40 GB	Stand Alone	Internet
46.	IQAC	Lenova all in one	2 GB	500 GB	Stand Alone	Internet
47.	Activity Room	I5 4.46 GHZ	8 GB	1 TB	Stand Alone	
48.	Conference Room	I5 4.46 GHZ	8 GB	500 5B	Stand Alone	Internet

Computers in Office and Laboratories:

	Location	Number	Configuration (CPU,Speed,RAM,HDD, OS)	LAN	Internet
1	Office	04 12 09	I3,3GHz,2GB,250,XP I5, 3.94GHZ, 4 GB, 500, XP P4 C2D, 2.40 GHz, 1 Gb, 160, XP	All	All
2	Multimedia Room	23	P4,C2D, 2.8 GHz, 1 GB, 160, XP	All	All
3	Computer Lab I	40 04 01	PIV, 3.06 GHz,1.43GB, 40 GB,XP C2D, 2.20 GHz,4 GB, 160 GB SATA I5, 2,8 GB,4 GBDDR3, 500 GB XP	All	Need Based
		LINUX Server	COMPAQ1.2GHz,1.0GB SD RAM80 GB		

		SERVER	PIV, XEON, 1.84.GB,360GB		
		SERVER	PIV XEON, 2.40 GHz,8 GB, 600 GB		
		Lenovo All in One	CORE 2 DEO,2.8 GHz, 160 GB		
4	Computer Lab II	01 23 01 02 08	C2D, 2.93 GHz, 3 GB, 80GB SATA C2D, 2.20 GHz, 3 GB, 160GB SATA C2D, 2.40GHz,3GB,160 GB SATA PIV, 2.40 GHz, 1.25GHz,40 GB ID I5, 3.85 GHz, 8GB, 500 GB	All	Need Based
5	PGDPCM Lab	09 01 01 IBM Server	I5,3 GHz, 4 GB, 500 GB I4, 2.64GHz, 2 GB, 160 GB C2D, 2.64GHz, 2 GB, 160 GB C2D, 2.64GHz, 256 GB, 80 GB	All	All
6	SRC Lab	02 02 03 02	P4 2.26 GHZ,160 GB P5,3.64 GHz,2 GB,500 GB P4, 2.26 GHZ, 80 GB P5, 3.64 GHz, 4 GB, 500GB	All	All
7	Adv Chem Lab	03 01 01 01 01	I5,4.06GHz,4 GB,500 GB I3, 2.26 GHz,256 MB, 40GB I3, 2.26 GHz,256 MB, 160GB I3, 2.26 GHz, 2GB, 160GB P4, 2.26 GHz, 512 MB, 80GB	Stand Alone	---
8	E-Learning Lab	28	I5,3.85 GHz,8 GB, 500 GB	LAN	All

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

- The computers connected through LAN
- Science departments equipped with desktop computers and laptops with internet
- Language laboratory, Commerce laboratory and PGDPCM laboratory with internet connectivity
- Many Arts and Commerce departments have laptops and LCD projectors.
- Internet facility available to staff members in library and office
- Internet facility available to students in library, multimedia room and PGDPCM library from 7:00 am to 05.20 pm
- Staff common room Wi-Fi enabled
- All internet connection through firewall
- Separate internet connection for IT laboratory
- Dedicated machine available for Office Data backup
  (Ref: 4.3.1 for details)

4.3.3 **What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?**

Keeping in view the vision and mission of the institution, IT infrastructure is upgraded in line with the global developments and the changes in the syllabi of various subjects.

- Periodical review and need based up-gradation of IT facilities
- Annual maintenance contracts for entire IT infrastructure
- e-learning laboratory created for skill development courses and on line examinations
- New software in administrative for admissions, payment of fees and other payments
- Administrative staff trained to handle new software and for online procedures
- Constantly updated College Website

4.3.4 **Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)**

Year	2012-13	2013-14	2014-15	2015-16
Provision in annual budget for procurement, up gradation etc	Purchases made as per requirements from available funds			
Computer repairs, maintenance and up gradation(Hardware)	2,58755	3,71009	4,40116	4,21831
Software up gradation	24,000	24,000	---	---

4.3.5 **How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?**

- The Science departments are equipped with desk-top computers, printers, laptops and net connectivity
- Desk-top computers, printers, laptops and net connectivity is also provided for staff common room
- Commerce and Arts departments have laptops and LCD projectors for effective delivery of subject content in the classrooms.
- ICT enabled learning spaces are created in library, audio-visual rooms and in the auditoriums
- Marathi department organized UNICODE workshop to increase use of ICT in Marathi
- Study material uploaded on college website
- Screening of films on regular basis by departments of English and Mass Media
- Good films are downloaded from authorized e-sources
- Online class tests conducted for FY, SY and TYBSc IT students
- Dedicated full-time staff for IT maintenance, minor repairs and trouble-shooting

- Use of power- point presentations by teachers and students wherever possible.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching – learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

- Student centric learning is brought out through seminars, projects, assignments, presentations, excursions, field trips, industrial visits, on the job training programs and case study methods
- Soft skill training programs and workshops are conducted to equip the students with necessary life skills
- In-house work books designed by Department of Accountancy and e-books by the Department of Economics
- The teachers make use various e resources such as NPTEL
- Department of Commerce conducts skill oriented courses in 'On-line Trading' in the well equipped commerce laboratory
- Use of ORELL software in language laboratory
- Power point presentations, role playing, discussions and debates by students during lecture hours with the teacher as a facilitator
- Mobile applications are used in annual academic festival conducted by IT department students
- For 'Dimensions', students make use ofsocial media and mobile applications to disseminate information
- Academic, co curricular and extra-curricular activities provide a platform
- for students to develop skills in inter-personal relationships, procuring sponsorships, accounting and budgeting, creative writing (designing brochures, invitations, certificates, banners and posters) and hospitality
- Many departments have Facebook pages and Whatsapp groups with the current students. Alumni groups also are active on social media.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

Yes, the college avails of the National Knowledge Network connectivity for academic purposes:
- Lectures on Classical Mechanics and Nuclear Physics are made available to students through NPTEL.
- A Chemistry Associate Professor is reviewer for NPTEL Chemistry course

Through MKCL, the University of Mumbai has created a network for the following administrative purposes:
- Admission process for receiving application forms
- Display of merit list
- Student enrolment (confirmation of eligibility and generation of PRN)
- Issue of hall tickets

- Receiving of question papers from the University during examination
- Course-wise, gender-wise, category-wise generation of statistical data of students
- Generation of Transfer certificates
- Results

4.4   Maintenance of Campus Facilities

4.4.1   How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

College Executive Committee allocates financial resources for maintenance and upkeep of various facilities to create a safe, clean and green environment. An optimum utilization of resources is ensured through timely preparation of budgets.
The funds utilized for the maintenance and upkeep of the facilities is given below:

Particulars	2012-13	2013-14	2014-15	2015 16
Expenditure	In Rupees	In Rupees	In Rupees	In Rupees
Building Taxes				
Furniture	1,88,325/-	3,84,690/-	252,481/-	15,08225/-
Equipments	13,19,486/-	4,00,115/-	2,75,728/-	5,49,790/-
Computers	2,44,675/-	14,03,282/-	60,000/-	5,87,657/-
Vehicles	---	12,55,095/-	---	---
Any other:				
Cleansco	12,97,235/-	13,16,717/-	15,35,675/-	16,20,043/-
Elevator	66,680/-	66,680/-	82,160/-	82,160/-
Water purifier	3900/-	4200/-		
Pest control	1,78,360/-			39,301/-
Air conditioning	72,000/-	82,498/-	72,000/-	72,000/-
Telephones	1,79,148/-	1,54,611/-	1,46,658/-	1,73,414/-
Plumbing	25,836/-	59,084/-	30,785/-	27,737/-
Electricity	39,98,419/-	42,38,074/-	47,33,319/-	42,33,764/-
Fire safety	900/-	10,050/-	6310/-	7910/-
Gardening	8000/-	97,082/-	57,771/-	1,40,246/-
Security	9,18,556/-	9,18,556/	9,18,556/-	9,18,556/
Cleaning of tanks	17,645/-	10,000/-	33,810/-	10,000/-

4.4.2   What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

The college building including class rooms, laboratories, Library, gymkhana and canteen is painted on a regular basis.

- The housekeeping contract is given to a private agency - Clensco. The company has deployed 23 staff under the supervision of two supervisors for sweeping and cleaning.
- The garden is maintained by Mr Sukesh Sinha, a plant scientist of SRC along with a team of ten workers

- Pest control on regular basis
- Equipments are maintained regularly. All air conditioners are maintained under AMC
- Periodic maintenance of LPG connection was carried out by representatives of Bharat Gas till 2015. From 2015-16, LPG connection has been replaced by piped gas (Mahanagar Gas)
- AMC is given to C.S. Technology for maintenance of computer hardware. The company has deployed an engineer on campus for this purpose
- Laboratory staff also contributes in the maintenance of computers
- Laboratory assistants are trained in the repair and maintenance of laboratory equipment
- Funds for repairs and maintenance of instruments are partially available through various grants; deficiencies are borne by the management

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

The calibration of the instruments is done as and when required. Other precision measures are taken care of during maintenance.
- Simple instruments used for U.G. programs are calibrated by teachers and laboratory assistants daily
- P.G. and research students calibrate simple instruments themselves under the supervision of teachers
- Sophisticated instruments are calibrated as per standard operating procedures
- To maintain safety standards, corroded gas pipes are replaced
- Equipments are constantly upgraded and nonfunctional equipments are replaced

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

- All sensitive equipments are ideally located for easy access, upkeep and maintenance
- Servers and Computers are connected to UPS
- Generator backup system is available for all important facilities
- MCB and ELCB are installed
- Air conditioners are installed to provide dust free environment for all sophisticated instruments
- IT and other laboratories having computers are air conditioned and have voltage stabilizers
- College has storage tanks to ensure 24x7 water supply
- Water distillation units are set up to supply distilled water for sensitive equipments

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

Infrastructure:

College management is keen on providing adequate infrastructure and facilities to growing number of its stakeholders.

CCTVs are installed at strategic locations as a part of the effective security system.

College Ground and Auditoriums are made available for programs pertaining to Social causes also.

Learning Resources:

Laboratories and other learning resources of Science Departments, SRC, VCTS and Cosmetology are made available for students and teachers from the neighboring schools and colleges.

CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1   Student Mentoring and Support

5.1.1   Does the institution publish its updated prospectus/handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes, the institution publishes its updated prospectus every year for regular and self-financing courses separately. They are important and authentic sources of information. These documents are designed in such a way to help students and parents understand the milieu of the college.

The prospectus contains the vision and mission statements, goals and objectives, affiliation and accreditation details, general information of the college, its web site, various courses offered, reservation policy, eligibility for admission and fee structure, documents required at the time of admission, procedures for cancellation and refund, examination related information, library, code of conduct, names of the Management Committee members and contact details of the Principal, Vice-Principals, college office and the Librarian.

The prospectus also provides information on the rules regarding attendance and discipline, subject combinations offered in Arts, Science and Commerce, new academic programs introduced, post graduate and research programs, free-ships and scholarships available from various state government agencies, prizes and endowments offered by the college.

It further contains list of faculty with their qualifications, various committees (academic as well as administrative, extracurricular activity committees) along with the names of their chairpersons. It gives information on general insurance and emergency medical services as well.

The Prospectus is given along with the admission form and is also published on the college website.

With all these details and guidelines, the prospectus reflects the institution's commitment and accountability to the cause of higher education.

5.1.2   Specify the type, number and amount of institutional scholarships / freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?

The college offers freeships and scholarships under various schemes of the Government to the students of weaker sections right at the time of admission.

The college disseminates information regarding these schemes and ensures that maximum students benefit from them.

The type and number of scholarships / free-ships given to the students during the last four years by the institution (other than those provided by the social welfare departments of the state or central government) are as follows:

a) **Post-matric scholarship for minority community:** This scholarship is awarded to Muslim, Parsi, Christian and Buddhist communities.
b) **SMAF freeships** given to needy students towards the payment of tuition fees. The college also provides sets of academic books to the needy students every year.
c) **Chandrakant Shah freeships** are given to PGDPCM students.
   The Students Mutual Aid Fund of the college caters to the needs of economically backward students by lending them textbooks. The college is empathetic towards in need of financial assistance and concessions in fees are offered or they are allowed to pay in installments.
d) **The Kelkar Education Trust's Welfare Fund** is setup to help needy students by way of scholarships whenever they are not covered under any other scheme.

There are a large number of Endowments and Memorial Awards as well as Prizes for academic and extracurricular achievements to encourage the meritorious students. These Endowments and Scholarships have been instituted by parents, industrialists and alumni besides the Government Schemes.

Sr. No	Name of Scholarship/ Prizes	2012-13		2013-14		2014-15		2015-16	
		Amt.	No	Amt.	No	Amt.	No	Amt.	No
1.	G D Gokhale Memorial Endowment	16000	20	16000	20	16000	20	16000	20
2.	Shakuntala Damodar Umrani Scholarship	800	01	1600	02	2400	03	1600	02
3.	Ramu S Deora Scholarship	16000	20	16000	20	16000	20	16000	20
4.	Damodar Umrani Scholarship	1600	02	1600	02	800	01	1600	02
5.	T N Venkatesan Scholarship	25050	32	31500	21	48540	20	50968	21
6.	Fakruddin Adamally Endowment (Dubai)	12750	17	11250	15	11250	15	19000	26
7.	T R Mulla Memorial Scholarship	8000	16	8000	16	8000	16	8000	16
8.	S H Kelkar Memorial Scholarship	4100	07	8000	15	7600	11	9400	08
9.	Vinayakprasad S Pakhre Memorial Scholarship	1000	02	1000	02	1000	02	1000	02
10.	Trimbak Keshav Kawale (Ozarkar) Endowment	1500	03	1500	03	1500	03	1500	03

11.	Late Shri Shirish N.Panditrao Memorial Scholarship	1000	01	1000	01	1000	01	1000	01
12.	Abha Moghe Endowment Scholarship	-	-	1000	01	1000	01	1000	01
13.	Late Shri Rajan Kashinath Dhotre Memorial scholarship	-	-	1500	01	1500	01	1500	01
14.	Shri A D Bhorkar Endowment Scholarship	-	-	5000	05	5000	05	5000	05
15.	Ganit Pradnya Paritoshik	1000	01	1000	01	1000	01	1000	01
16.	Late Shri Lalaji Karamshi Shah Endowment	800	01	800	01	800	01	800	01
17.	T S Kokje Memorial Scholarship	-	-	1500	02	1500	02	1500	02
18.	Physics Teacher's Prize	2400	03	1600	02	2400	03	2400	03
19.	Sujata Pabrekar Memorial Scholarship	1600	03	1600	04	1600	02	1600	02
20.	Shaku-la Arts Endowment Prize	1000	02	1000	02	500	01	1000	02
21.	Ramesh Ravji Thakkar Endowment	-	-	1000	05	1000	05	1000	05
22.	Rotary Trust Mulund South	-	-	500	01	500	01	500	01
23.	Alumni 93 (Commerce Batch)	-	-	500	01	500	01	500	01
24	Sunil Deodhar Memorial Scholarship	3000	03	3000	03	3000	03	3000	03
25	Dr. P D Bhave Scholarship	800	01	800	01	800	01	800	01

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

The details of Types of Scholarships Number of students and amount for Open category are mentioned in the table below:

Sr. No	Scholarship/ Freeship	2012-13	2013-14	2014-15	2015-16	2016-17
1.	Secondary teachers freeship	---	---	---	01	01
2.	Primary teachers freeship	---	---	---	---	---
3.	Government open merit scholarship	---	01 for Rs 450	---	02 Rs 2400	---
4.	Ex servicemen freeship	---	---	---	---	---
5.	EBC scholarship	---	---	03	---	---
6.	Government open merit for minority students	---	---	03	02	---
7.	Post graduate merit scholarships	---	---	---	01	01 Rs.2500

Admissions to various courses are as per reservation policy of Government of Maharashtra. Information regarding free-ships and scholarships is notified to the students and eligible students apply for the same.

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Total amount received by Students of Reserved Category(Aided) is :

Type of Scholarship	2012-2013 Amt in Rupees	2013-2014 Amt in Rupees	2014-2015 Amt in Rupees	2015-16 Amt in Rupees
SBC Scholarship	20,065	41,990	39,705	22,183
SBC Freeship	21,668	32,048	31,305	27,283
OBC Scholarship	2,40,372	3,69,334	4,31,211	2,73,324
OBC Freeship	1,96,319	2,99,464	2,34,338	2,67,116
SC Scholarship	2,88,512	5,01,079	6,97,453	3,17,521
SC Freeship	2,04,956	1,94,222	2,53,690	2,67,116
VJNT Scholarship	1,18,847	81,318	2,61,386	1,69,979
VJNT Freeship	1,08,909	1,65,715	79,463	89,889
ST Scholarship	1,02,218	2,63,875	2,18,625	1,08,638
ST Freeship	1,02,417	39,405	28,738	56,766

Total amount received by Students of Reserved Category (Self Financing) is:

Caste	FREESHIP	SCHOLARSHIP	TOTAL	AMT in Rs
2012-2013				
OBC	20	71	91	380335
SBC	8	11	19	362800
SC	43	57	100	1728640
VJNT	33	20	53	952810
2013-2014				
OBC	48	68	116	2127650
SBC	10	16	26	467845
SC	58	59	117	1898195
VJNT	37	23	60	1156500
2014-2015				
OBC	38	49	87	1374437
SBC	6	12	18	270175
SC	56	65	121	2121825
VJNT	20	20	40	671330

In addition to the abovementioned scholarships, Inspire Scholarship is also awarded to students and is credited to their individual accounts.

5.1.4 What are the specific support services/facilities available for students?
- ✓ **from SC/ST,OBC and economically weaker sections?**
- ✓ **Students with physical disabilities**
- ✓ **Overseas students**
- ✓ **Students to participate in various competitions/National and International**
- ✓ **Medical assistance to students: health centre, health insurance etc.**
- ✓ **Organizing coaching classes for competitive exams**
- ✓ **Skill development (spoken English, computer literacy etc)**
- ✓ **Support for slow learners**

✓ **Exposures of students to other institutions of higher learning/corporate / business house etc.**
✓ **Publication of Students' Magazine**

The college firmly believes that until and unless students from socio-economically weaker sections are empowered and equipped for their higher studies the inclusive growth of the society will remain a distant dream. Since its inception the college has been committed to bring students from SC/ST/OBC and economically weaker sections in the main stream.

Special Cell is one of the important bodies that seek to empower students who face social and economic disadvantages by creating access to various opportunities available in college. The Special Cell oversees the implementation of the reservation policy for admissions to various programs. It monitors the working of the remedial coaching scheme in the college, deals with representations received from reserved category candidates and work as a Grievances Redressal Cell for them.

The college follows the UGC/Maharashtra Govt. rules/norms regarding full fees scholarship/free ship, admission reservations, marks-relaxation for admission related to students from SC/ST/ OBC categories.

The following specific support services/facilities available for students from SC/ST, OBC and economically weaker sections:

- Concessional fee structure for reserve category students as per norms laid down by the Government and published in the prospectus
- Facility of payment of fees in installments for economically weak students
- Faculty sponsorship of fees
- Remedial Coaching
- UPSC/MPSC Coaching
- SMAF Book Bank Scheme
- Scholarships, Free-ships and Endowments

Students with physical disabilities
The following facilities are provided to students with physical disabilities:
- Separate section in the library 'Vaze Vision' set up for visually challenged students
- Washroom for disabled students
- Ramp on the ground floor
- Adjustment of lectures in classrooms on ground floor whenever required
- Lift facility is available for disabled students
- Special sitting arrangements during examinations and extra time allotted
- Students are encouraged to participate in all college activities

Overseas students

In-house faculty engages lectures on special topics for foreign students who are admitted to our Junior College through the Rotary Exchange Program. For instance, Department of History engages lectures on the History of India, Maharashtra and Mumbai as well as on Food and Fashion in India and the Department of Political Science engages a lecture on the Indian Political System. The faculty from the Department of English delivers a lecture on Cinema in India and the Department of Economics engages a lecture on Indian Economy.

Students to participate in various competitions/National and International

The college has different committees to foster the talents of the students in diverse fields. The Cultural Committee, DEQ committee, Fine Arts Committee, Vithee (Vaze theatre), Literary Associations and 'Kaleidoscope' (Photography Committee) nurture the students' talent and encourage them to participate in various competitions. Other than these committees, the departments also send students to participate in the subject related competitions.

The Physical Director of the college gymkhana coordinates the sports activities. The students participate in different team and individual events such as volley ball, basket ball, net ball, shooting ball, ball badminton, kho-kho, badminton, table tennis, chess, gymnastics, wushu, kudo and karate, judo, swimming and water polo.

Eight coaches have been appointed to train the students to participate in various sports events at University, State, National and International levels.

Some of the major achievements in Sports are:
- Ms Shraddha Ghule received the 'Chhatrapati Krida Puraskar', a prestigious award by Government of Maharashtra, **for athletics** in 2012 – 2013
- Mr Sandesh Atkarai received the 'Chhatrapati Krida Puraskar' **for gymnastics** in 2013 – 2014
- Ms Sayali Dhuri received the 'Chhatrapati Krida Puraskar' **for rope malkhamb** in 2013 – 2014
- Mr Sibin George participated and won the first place in a number of state and national **athletic** meets. He secured a silver medal at the South Asian Athletic Federation Meet at Ranchi in 2012 – 2013
- Mr Sarang Vaidya and Mr Pranav Mhatre participated in the International **Water Polo** tournament, Bangkok in 2014 – 2015
- Ms Pratiksha Daki participated in the Asian **Karate** Budokal in 2014 – 2015

Medical assistance to students: health centre, health insurance etc.

- First aid in Gymkhana
- First aid room
- Group insurance
- In case of medical emergencies, students are admitted to Saidhan Hospital which is in the college vicinity

Organizing coaching classes for competitive exams
- The College has established a UPSC/MPSC Cell for coaching students desirous of appearing for civil service examinations.
- NET/ SLET coaching - Around 70 students registered for the same. Lectures by faculty from IIT, University of Mumbai, ICT were held once a week for three hours followed by problem solving.
- Preparation for Competitive exams in Chemistry and Physics through the Study Circle.
- Workshops for UG and PG students on a regular basis are organized in association with Royal Society of Chemistry (West India Section) and Chemical Research Society of India (CRSI)-Mumbai region. Eminent Scientists/ academicians from IIT, TIFR and ICT are invited to deliver lectures.

Skill development (spoken English, computer literacy etc):
The college has introduced many skill development courses for students. Three labs have been set up primarily for this purpose.

The following courses are conducted:
- Course on English Language Enhancement
- Course in German
- Basic Tally Operations conducted in the e-learning lab
- Financial Skill Development course in the Commerce lab
- Course in Angular JS for enhancing computer skills for IT students
- Course in *Modi Lipi*
- Research Methodology course to learn skills of research in social sciences
- Course in Plant Tissue Culture
- Course in Animal Tissue Culture
- Course in Mushroom cultivation
- Positive Psychology and Wellbeing
- Stress Management and Effective Study Habits
- *Saral* Hindi
- Econometrics

The creative writing skills of the students are honed through workshops organized for poetry writing, script writing, short articles for the college magazine and through poster making. Programs on film appreciation also contribute towards the creative skill development of the students.

College also organized a 5 days certificate course in Entrepreneurship Development Program in collaboration with Rajiv Gandhi National Institute for Youth Development and ICTACT.

Support for slow learners:
Based on the performance of the students in the examinations, the college examination committee identifies students who need extra support in their academic pursuits. Such students are provided remedial coaching for the subjects where they need additional assistance.

The mentoring system also helps to identify slow learners and direct them to seek appropriate measures.
For students identified with learning disability, the college strictly follows the university examination - related norms regarding extra time, leniency in assessment and gracing rules.

Exposures of students to other institutions of higher learning/corporate / business house etc.
The college has always emphasized on experiential learning and encouraged departments to expose their students to visit institutions of higher learning/ corporate / business houses. The following is a list of such visits by the students over the last five years:

Industrial visits – Department wise

Year	Course	Class/Dept	Location	Students strength
2012-13	Arts	Economics	Chhatrapati Shahu Co-op Sugar factory,Kagal, Kolhapur, Maharashtra	25
		Psychology	Gharkul - Home for mentally challenged Adults, Dombivali, Thane, Maharashtra	22
			International Inst. Of Sleep Sciences, Mulund, Mumbai, Maharashtra	22
			Aatman - School for special children, Thane, Maharashtra	23
		History	Rich cultural heritage and monument sites, Jaipur and Jaisalmer, Rajasthan	20
	Science	Zoology	Excursion / Study trip - Alibag, Malvan Maharashtra and Kanha National Park, MP	40
		Biotech	Horticulture Training Centre, Talegaon, Pune	30
			Sula Vineyards &DadasahebPhalke Museum, Nashik, Maharashtra	32
			Biocon - Bangalore, Mysore and Coorg, Karnataka	32
	SELF - FINANCING COURSES			
	BMM	All	Botanical and Tea gardens, Tea factory, Ooty& Mysore, Karnataka	105
	PGDPCM	All	Hygienic Research Institute Pvt. Ltd, Baddi,	42

			Chandigarh, Punjab	
			Joy, Asian Aerosols, Hindustan UniliverLts, Baddi, Punjab	42
	BAF, BBI	All FY	Parveen Industries pvtltd., Igatpuri, Nashik, Maharashtra	108
	BAF, BBI	All SY	HMT Machines, Hyderabad, Andhra Pradesh	84
			Ramoji Film City, Hyderabad, Andhra Pradesh	84
			Salarjang Museum, Hyderabad, Andhra Pradesh	84
	BAF, BBI	All TY	Mysore, Dairy, Mysore, Karnataka	63
			Lalbaug (Botonical) Garden - Academic visit, Bangalore, Karnataka	63
2013-14	Arts	Economics	Amul Plant, Anand, Gujarat	22
			National Dairy Dev. Board, Inst. For Rural Magmt. Anand, Gujarat	22
		Psychology	International Inst of Psychology, Delhi	21
			Defense Inst of Psychological Research, Timarpur, New Delhi	21
		History	JallianwalaBagh and Golden Temple, Amritsar, Punjab	34
			Wagah Border, Attari, Amritsar, Punjab	34
			Panipat and Pinjore Gardens, Haryana	34
	Science	Zoology	Saguna Baug, Malegaon, Neral, Raigad,	40
		Biotech Dept	Horticulture Training Centre, Talegaon, Pune, Maharashtra	28
			Sula Vineyards & DadasahebPhalke Museum, Nashik, Maharashtra	28
			Hygienic Research Institute Pvt. Ltd, Baddi, Chandigarh, Punjab and Delhi	44
		Physics	National Physical Lab,Plasma Research Lab, Ahmedabad, Gujrat, Observatory at Mt Abu IR Observatory, Udaipur, Rajasthan	9
		Chemistry	Indian Inst. Of Science, Education and Research (IISER), Pune, Maharashtra	35
	SELF - FINANCING COURSES			
	BMM	All	All India Radio, Rajasthan Patrika Newspaper, Udaipur, Rajasthan	95
	PGDPCM	All	ITC Research Centre, Karnataka Soap &Detergent, Bangalore, Karnataka	36
			Sandalwood oil extraction plant, Govt. of Karnataka, Mysore, Karnataka	36
	BAF, BBI, BMS	All FY	Silvasa, Dadra and Nagar Haveli	88
	BAF, BBI, BMS	All SY	DainikBhaskar, Jaipur, Rajasthan	73
			Saras Dairy, Jaipur, Rajasthan	73
	BAF, BBI,	All TY	E.G. Pharma, Chandigarh, Punjab	105
			Vardhaman Textiles, Baddi, Himachal Pradesh	105

	BMS		Field visit to BSE and NSE, Mumbai, Maharashtra	135
2014-15	Arts	Economics	Telangana Newspaper, Ramoji Film City, Hyderabad, Telangana	27
		Psychology	Chaitanya Mental Health Rehabilitation Centre, Goa Sethu Child Development and Guidance Centre, Goa Cooj Mental Health Foundation, Goa Sangath NGO, Goa	18
		History	Sikandara Tomb, Taj Mahal, Agra, Uttar Pradesh Fatehpur Sikri, Agra, Uttar Pradesh Ajmer Dargah, Ajmer, Rajasthan Brahma Temple, Pushkar, Rajasthan	18
	Science	Zoology	Konkan KrishiVidyapeeth, Dapoli, Maharashtra	40
		Biotech Dept	SagunaBaug, Malegaon, Neral, Raigad, Maharashtra	24
			Horticulture Training Centre, Talegaon, Pune, Maharashtra	30
			Jaipur Dairy, BISR, Jaipur, Rajasthan	41
			Sula Vineyards &DadasahebPhalke Museum, Nashik, Maharashtra	30
		Chemistry	ISRO & IISC, Bangalore, Karnataka	62
SELF - FINANCING COURSES				
	BMM	All	Malayalamanorama, Alappuzha, Kerala	97
	PGDPCM	All	Hygienic Research Institute Pvt. Ltd, Baddi, Chandigarh, Punjab	44
			Medimix Soap Pvt. Ltd.	44
			Nyssa Aerosols	44
			VVF IndustryNalagarh, Solan, Himachal Pradesh	44
	BAF, BBI, BMS	All FY	Parag Milk Foods Limited, Manchar, Pune, Maharashtra	105
	BAF, BBI, BMS	All SY	DainikBhaskar, Jaipur, Rajasthan	60
			Saras Dairy, Jaipur, Rajasthan	60
	BAF, BBI, BMS	All TY	Coir factory, Alappuzha, Kerala	93
			Kannan Devan Hills Plantation, Munnar, Kerala	
2015-16	Arts	Psychology	Sankalp, Chennai, Tamil Nadu	22
			Alfa to Omega, Chennai, Tamil Nadu	22
			Sneha Foundation, Chennai, Tamil Nadu	22
			The Banyan, Rehoboth, Chennai, Tamil Nadu	22
			SCARF, Chennai, Tamil Nadu	22

		Sociology	Pushakar Temple, KGN Dargah, Amer Fort, Hawa Mahal, Kanak Temple, JantarMantar, Jaipur Palace, Jaipur, Rajasthan	24
		History Dept	Bijapur, Badami, Aihole and Pattadkkal, Karnataka	22
	Science	Zoology Dept	One day short excursion, Neral, Maharashtra	40
		Biotechnology	Sula Vineyards &DadasahebPhalke Museum, Nashik, Maharashtra	30
		Chemistry	ISRO, IISC, HAL, Raman Research Institute Bangalore, Karnataka	62
		Physics Dept	ISRO, IISC, HAL, Raman Research Institute Bangalore, Karnataka	5
SELF - FINANCING COURSES				
BMM	All		Zee Punjabi Studio, Amritsar and Chandigarh, Punjab	53
PGDPCM	All		Aeropharma Plant, Silvasa, Dadra and Nagar Haveli	55
			VVF India Pvt Ltd, Baddi, Himachal Pradesh Nyasa Lab, Manali, Himachal Pradesh Medimix Soap, Himachal Pradesh	44
BAF, BBI, BMS	All FY		Parag Milk Foods Limited, Manchar, Pune, Maharashtra	117
BAF, BBI, BMS	All SY		Dainik Bhaskar, Jaipur Foot factory Jaipur, Rajasthan	66
BAF, BBI, BMS	All TY		Surya Lights, Uttarakhand IMPCL, Nainital, Uttarakhand	64

Publication of Students' Magazine:
The college publishes its annual magazine 'Mayur'. The editorial board comprises faculty and students. The magazine showcases the activities, achievements and creativity of the students and staff. The creative section of Mayur has multi lingual articles.

Vaze Chemica – annual journal published by the department of Chemistry. It includes articles written by students, alumni and faculty.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

The institution makes concrete efforts within the college campus and outside, to facilitate entrepreneurial skills among students. Following efforts are taken:

- The College encourages students to develop soft skills through informal and formal methods. The annual inter collegiate festival requires the student organizers to interact with leading industrial houses to procure sponsorships. The college faculty and alumni provide the student organizers training in dealing with such industrial houses.
- The Career Guidance & Placement Cell of the college aims at providing an insight into the various career options available to the students. The objective is to expose the students to a plethora of information in the college itself by way of talks by eminent speakers, conducting career exhibitions, holding career related workshops to enable students to benefit from the same. It also organizes personality development programs and programs in soft skill development to enable students to understand the requisites for job markets. Students desiring to develop their skills for job markets enroll for the formal training.
- College also runs the Post Graduate Diploma in Perfumery and Cosmetics Management program for the students. Training given in this program not only enhances students' employability but also helps them in setting up their own business.
- Interactive sessions with dignitaries and professionals are conducted to ignite the students' minds. Economist and entrepreneur, Shri Deepak Ghaisas was invited in G D Kelkar and R A Kulkarni Memorial Lecture Series to deliver a lecture on 'Make in India'. He spoke about opportunities and challenges of start ups.
- The Department of Commerce and Accountancy organized one day UGC sponsored National Conference on 'Current Scenario-Ease of Doing Business in India - Initiatives, Challenges and Opportunities'. Eminent speakers from the banking sector, business, education and environmental science spoke of various aspects related to the theme of the conference. They highlighted the challenges and opportunities of doing business in India to a student audience.
- The College organized a 5 day certificate course in Entrepreneurship Development Program in collaboration with Rajiv Gandhi National Institute for Youth Development and ICTACT (ICT Academy of Tamil Nadu), in June 2015. Many successful entrepreneurs were invited as resource persons and they guided students regarding how to start the business and process of obtaining loans.
- Industrial visits conducted expose the students to business environment.

5.1.6 **Enumerate the policies and strategies of the institution which promote participation of students in extra-curricular and co- curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.**
∗additional academic support, flexibility in examinations
∗special dietary requirements, sports uniform and materials
∗any other

- The college academic calendar makes provision for all academic and extra-curricular and co-curricular activities held throughout the year to enable the students to balance academics and participation in various activities
- To recognize all round achievements of a multi talented and multi faceted student, the college has instituted a **Special Appreciation Award**
- Students representing college in extra-curricular and co-curricular activities are given additional academic support by the faculty. For students unable to appear for regular examinations, the college conducts re-exams. They are allowed to submit projects or take the internal examination later
- Students encouraged to participate in State, National and International events
- Blazers are provided for national and international players
- College Gymkhana provides sportswear and kits to all sportsmen for practice sessions and matches
- The physical instructors and coaches guide the students about essential intake of nutrients that will keep them fit and strong. Dietary chart is displayed prominently in the gymkhana
- The college gymnasium is used by the students for their workout
- The college organizes a number of activities such as the inter collegiate festival – Dimensions, Vaze theatre-'Vithee' , cultural activities such as song and dance competitions, debates, elocution competitions are organized. Participation in both inter-collegiate and intra-collegiate cultural activities and the college festival (Dimensions) are also encouraged and students win laurels in most of them
- Financial help is given for engaging experts for training and providing the required costumes and props for cultural events
- Financial assistance in the form of Travelling and Dearness allowance
- Separate Gymkhana Prize Distribution function to acknowledge excellence in sports
- Renowned sports personality invited as chief guest for the function
- Financial support to deserving students for participation in games
- Student notice boards used for dissemination of information
- Every student associated with at least 2 activities per year on the basis of interest and aptitude
- Membership of associations open for all interested students

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR-NET, UGC-NET, SLET, GATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.

UPSC/MPSC Cell
The UGC provides financial assistance to run a scheme of coaching classes

for entry in civil services for SC / ST and Minorities. According to the guidelines of this scheme the students belonging to economically weaker sections and physically challenged students may also avail of this facility. The basic objective of this coaching scheme is to prepare students belonging to SC / ST/ OBC(non-creamy layer) and Minority communities to get gainful employment in Group 'A', 'B' or 'C' Central services, State services or equivalent positions in the private sector. The coaching under this scheme is oriented for particular examinations conducted for selection to services, such as the IAS, State Public Services, Bank recruitment, etc. The coaching takes into consideration the specific requirements of a particular competitive examination.

The college started UPSC/MPSC Cell in 2011-12. This Cell enrolls the under graduate student-aspirants across faculties every year. It offers teaching and training program for competitive exams to students belonging to SC/ST/OBC/ physically handicapped and also to other students who aspire for civil services. The UPSC/MPSC Cell provides information about various competitive examinations in the area of its operation.

NET/SLET coaching was organized by Chemistry Department in one year.

5.1.8   What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

Students are provided with the best possible counseling services, as the very purpose of institutional existence is to empower them. In the increasingly competitive world students need institutional support to address their problems which are not only academic but also personal, socio-psychological etc.
Mentor system: Students' academic and personal problems are taken care of through mentor system effectively implemented in the college. Every teacher is assigned certain number of students as mentees. Teachers conduct meetings with individual mentee to understand family and financial background the problems faced if any, career progression and such other information about him/her. Approach is to help and sort out the problems.

To ensure that regular meetings are held, a separate schedule is displayed at the beginning of the year. A register is maintained to keep record of the students' profile.
Regular meetings have been found beneficial to the needy students as they can express themselves without hesitation and fear which is otherwise not possible in regular classrooms. If any student having more serious problem and requires specialized counseling the matter is referred to the Counseling Cell.

Trained Counselor: The Counselling Cell has been established to look after welfare of the students. A qualified and trained counsellor has been appointed who is available in the campus to help the students. Also, teachers from

Psychology department help the students by counselling them whenever required.

5.1.9   **Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programs).**

Yes, there is a structured mechanism for career guidance as the college has an active Career guidance and Placement cell.

Today's students are highly conscious about career and it is the duty of the institution to offer them best possible career guidance. Especially students from deprived communities are solely depending on the institution for timely and suited career guidance. Keeping this in mind the college uses various platforms, besides the Cell, to equip the students.

The Career Guidance and Placement Cell of the college aims at providing an insight into the various career options available to the students. The objective is to expose the students to a plethora of information in the college itself by way of talks by eminent speakers, conducting career exhibitions, holding career related workshops for benefit of students.

Highlights of the annual activities of Career Guidance Placement Cell
- Nugus Medical Sale Representative Training Institute (NMSRTI) conducted a session with ex-students of BSc for medical sales career
- CGPC along with Brightways conducted Career Guidance Workshop for 300 TY students of our college
- Athena School of Management, Powai were invited to conduct a seminar on "Leadership and Entrepreneurship in the corporate sector" for the third year students of Commerce and Self-Financing sections in December, 2015
- Times of India Group in association with Kotak Securities were invited to conduct a session for final year UG students regarding employment opportunities available after their graduation wherein 125 students attended
- Seminar was conducted by Xavier's Learning and Research Foundation to guide Medical, IIT aspirants from Junior College regarding global career options on 17th April 2015
- Seminar was conducted by Endeavor on preparation of CLAT, SET, AILET, LSAT-India to guide law aspirants from Junior College on 30th September 2015

Soft-Skill Development Activities:
Lead organization conducted one-day workshop on recruitment preparation for 46 TYBCom students (on December 2015) 17 TYBA students on 5th December 2016.

Workshop on Communication Skill and Personality Development was conducted by PANCHE-The finishing school for students on 5th December 2015. More than 100 students participated.

Placement related Activities:

TCS Group organized placement drive for TY students of all faculties. 200 students participated in the drive and 28 got selected for the job.

J. P. Morgan Chase and Company conducted placement drive for TYBCom students for a position of a specialist. 96 students participated in the drive. 05 students were selected.

Sterling Backcheck conducted placement drive for TYBMS, BMM, BA and BCom students. 59 students participated in the drive. 11 students were selected.

ICFAI University conducted placement drive for TYBCom, TYBA, TYBSc, TYBMS, TYBMM students for the position of Marketing Executive. 98 students participated in the drive. 17 students were selected.

Cenveo – Graphic Communication - XML Association conducted placement drive for TYBA, TYBCom, Mcom, TYBSc, MSc students.25 students attended the drive. Seven students were selected for the job.

The Research Tree conducted placement drive for TYBCom, TYBAF, TYBBI, TYBMS students for the position of Research Analyst. 56 students attended the drive. No student was selected for the job.

The PGDPCM department trains the students in presentation skills through formal dressing on every Wednesday, individual counseling on body language and providing platform for interacting with industry people so as to learn the professional ethics by observation. These ethics groom the students for better career options. Courses and guest lectures are also organized by industry professionals for better understanding of various careers.

Some of the companies that have visited the college are: L'Oreal, Godrej, IFF, Cheryl's Cosmeceuticals, Fiabila, CPL Aromas, Galaxy Surfactants, Asthana Herbals, Malaysia, Pragati Aromas, GFL Fragrances, Marico, ITC, AeroPharma, Alcos International, Aquaproofers, Kumar Organics, Emami India, Kaya international, Aarav Fragrances, Eurofragrances, Lykis , Glint Cosmetics, Biosol, Orac life Sciences, claims Pvt Ltd, Yasham Lifesciences, Keva Fragrances, D K Specialities Chemicals, STC Marketing, Chemhouse Marketing, JKH Imports & Experts, Maitreei Herbals, Gattefosse, Anshul Lifesciences, Sage Cosmetics.

Orientation Programmes:

At the beginning of the year well-structured orientation programmes are conducted for newly admitted students for various programs and courses by the IQAC cell. As soon as the admission process is over the class-wise schedule of the orientation programmes is communicated to students through notice board as well as college website. All kind of information regarding attendance, discipline, examinations, curricular and co-curricular activities etc. is shared with the students and made them aware of the tradition and

reputation of the institution. The principal, Vice-Principal and senior teachers are involved in each and every orientation programme.

Orientation programme for the final year students of Degree College is held in July every year, to brief them about the activities of the Placement Cell. The programme focuses on the Do's & Don'ts that the students should be aware of. Almost every faculty member counsels the students on academic matters. Teachers try to answer the queries of the students regarding career choices, improving academic performance, participation in extracurricular activities.

Sometimes personal counselling is also offered if the students desire to discuss their personal problems with the teacher. This form of interaction often goes beyond the call of the teachers; duty hours. At times, most of the academic question -solving sessions are carried on as a group activity or at an individual level depending on the nature of questions. In cases where faculty members offer counselling at a personal level, the student meets the concerned teacher more often.

Students in the Second Year classes are counselled during lectures about the subjects they can opt for in final year and future prospects for each of the subjects.

Special Cell:
As the college is very particular about the implementation of reservation norms while granting admission it has large number of students coming from socially and economically backward classes. These students have their unique problems and need special help vis-à-vis students from well off family. The college has proactive Special Cell to guide such students. Separate meetings are conducted for these students in the presence of Principal and members of the Placement Cell. The Special Cell ensures that no such student feel being ignored and marginalised.

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

The College has set up a Student Grievance Redressal Cell with Principal as the convener and senior faculty as members. Suggestion boxes are placed in the college campus in which the students can drop their suggestions/ complaints. These boxes are opened at regular intervals and suggestions and complaints and the Cell looks into and addresses these grievances. In certain cases, WDC and Special Cell are involved. The Cell along with Students' Council also organize an annual program called "Meet the Principal" in which there is a free interaction of the Principal and the students and their problems/ complaints / suggestions are attended to.

No major grievances have been reported during the reporting period. Some of the grievances of the students pertain to:

- menu and pricing in the canteen; canteen committee resolved this with discussion with canteen contractor
- reading room in the main library was noisy; wooden partitions on the tables were removed to monitor better discipline
- long queues during admissions; resolved by setting up of a help desk in the college and introduction of online payment system

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

The college advocates empowerment of women and has zero tolerance for sexual harassment. The college has always been sensitive about gender equity and following the gender equality policy laid down by the University. The Women's Development Cell (WDC) is a statutory body formed under Section 14(8) of Maharashtra University Act 1994. College has constituted the cell as per the prescribed guidelines of the University of Mumbai and plays a proactive role to maintain gender equity in the campus. It undertakes gender sensitization drives to prevent any kind of sexual harassment. The WDC undertakes such drives in collaboration with NSS, *Marathi Bhasha Ani Vangmay Mandal* and other Cultural groups. Message of equal opportunities is conveyed through talks and competitions to the students.

Students are made aware of the importance of WDC in college in the orientation program. Over the years WDC has handled a few grievances in the college campus.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Government of Maharashtra has notified Ragging as a cognizable offence. Anyone reported to be involved in any form of ragging, will be severely dealt with. Therefore, students are required to restrain from indulging in any form of ragging. The Anti Ragging law is mentioned in the prospectus and reiterated during the orientation program. The Discipline Committee is given the additional responsibility of looking into the ragging cases, if any. No instance of ragging has taken place; hence no case of ragging has been reported to the committee in the last five years.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

- The College has a group insurance policy for the students for a sum of up to Rs. One lac per student

- In case of medical emergencies, students are taken to / admitted to 'Saidhan' hospital which is in vicinity of the college
- The College provides subsidized canteen facility for the students. There is a separate committee to monitor the canteen service.
- SMAF is a body that functions for the welfare of the students. The SMAF freeships are given to financially needy students. Students in need of financial assistance approach Principal.
- Depending on the merit of the case, needy students may be given on campus jobs. Such opportunities are created in office and library. Two students are employed in the college office and are allowed flexibility in timing. Services of students are also hired during admission period and are paid accordingly
- NSS organizes an annual health check up camps including Thalassemia check
- Needy students are given a book-bank facility. This facility is mainly available to economically backward class students. Students from EBC class apply for the facility. Based on the merit of the individual case, a set of books pertaining to the class of the student is made available to the student. At the end of the academic year the students return the books to the library
- Needy students are financially supported by teachers
- Library has launched the facility of 'scholar's card'. Top five academic performers of each class and for each subject at the TY Class can avail this facility. Some textbooks/reference books are kept aside specifically for these students. The students are issued book/s from this set for fortnight for extra reading
- The College also offers number of endowment scholarships. (Refer to 5.1.2)

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

The college has a strong Alumni Association. The Association has held get together every two years on the third Sunday of December. Apart from this, every department has a strong bond with their alumni. Some of these have translated into small alumni associations of the departments which organize annual meets and other events at the departmental levels. For instance, the alumni program of the department of History held in the silver jubilee year was wholly sponsored by the alumni of the department.

Alumni contributions for institutional and academic development
- Alumni invited as resource persons and guest speakers
- Alumni invited as judges for various programs
- Active involvement of alumni in training for cultural events

- Share information regarding placements and employment opportunities
- Instituted a prize for the topper at TYBCom

5.2   Student Progression

5.2.1   Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

Student progression	%
UG to PG (Including Professional)	60 %
UG to Professional	30%
PG to MPhil	0.5%
PG to PhD	08 %

Employed
• **Campus selection -For PGDPCM**
   For MSc IT and BSc IT
   Other Students
• **Other than campus recruitment**
	100 %
	70 %
	10 %

5.2.2   Provide details of the program wise pass percentage and completion rate for the last four years (course-wise/batch-wise as stipulated by the university)? Furnish program-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

College/Course	2012-13	2013-14	2014-15
TYBA			
Vaze College	97.60	97.20	88.02
Joshi Bedekar College	85.93	81.41	73.61
KB College	94.37	83.07	52
University	62.65	76.22	65.80
TY BCom			
Vaze College	94.43 %	92.50%	94.44
Joshi Bedekar College	92.56	80.47	83.07
KB College	84.49	62.67	60.88
University	81.13	73.00	67.34
TYBMM			
Vaze College	90.56	98.21	87.23
Bedekar College	90.32	86.95	88.54
University	92.34	84.26	82.17
TYBBI			
Vaze College	85.25	70.58	82.69
Bedekar College	89.47	85.33	81.98
University	85.00	84.19	77.95
TYBAF			
Vaze College	95.16	68.42	94.78
Bedekar College	100	90.34	93.10
University	92.41	86.20	90.65

In the last 33 years, the college has emerged a forerunner in the field of academics. The College performance at the University examinations has consistently surpassed the average University percentage of passing. The statistics of the last six years show that while the average University percentage of passing for T.Y.B.Com has been in the range of 55% -60%, the College has always shown a passing percentage not less than 80%. In the Arts faculty, the College passing percentage of the students has consistently been approx 90% while the University rate of passing has been 60% -65%. In the Science faculty, the University results range from 65% -70% while the College percentage has been close to an average of 90%.

5.2.3 **How does the institution facilitate student progression to higher level of education and / or towards employment?**

Students are guided and motivated for higher studies in their respective subjects by holding guest lectures, career guidance workshops etc. Teachers play major role in helping students to decide about further education. Even after the graduation students keep coming to college for taking advice of the teachers.

The college conducts various skill-based short term courses to enhance students' employability such as- Basic Tally ERP 9, Financial Skills, English Proficiency course, German Language, *Modi Lipi*, Positive Psychology and Research Methodology.

The college runs PG courses in MCom in Accountancy, MSc in Zoology, IT, Bio-Tech, Chemistry and Physics. The College also runs Post-Graduate diploma in Perfumery and Cosmetics Management (PGDPCM) since 2005.

Major student development activities including soft skills for the year

2012-13
- The college organized and conducted a two day workshop titled "PACE with PRIDE (Performance Aimed at Continuous Excellence with personal Responsibility in delivering excellence)" for our college students including those who have enrolled for UPSC Coaching. The purpose of this workshop was to provide a platform for the students to see themselves in a new perspective wherein they would be able to experience a sense of personal satisfaction in their personal as well as future professional life. The program focused on concepts of personal productivity, positivity and assertiveness, time management, etc. The workshop was conducted by Mr. Rajesh Kamat of Learning Canvas Ltd. 80 students participated in the workshop.
- Interview technique workshop with Welingkar Institute of Management was conducted.

- Economics competency, research paper presentation competition was conducted.

2013-14
- Economics Competency Test.
- Economics Research Paper Completion.
- Money Olympiad: A noted Numismatist and Philatelist was invited to exhibit his vast collection of currency notes and coins and stamps of 152 countries under UN in the college on 6th January 2014. Students answered a questionnaire based on collection.
- Computerized accounting software training program (use of Tally) for students of SYBCom. The training program was of eight sessions.
- Commerce department conducts a Workshop for Commerce students on Group Discussion Techniques to hone their GD skills. The best speakers were awarded certificates.
- Department of Royal Society of Chemistry and Chemical Research Society of India organized Post Graduate Lecture Series, University Level at V G Vaze College Auditorium on 13th,26th & 27th July 2013. 169 students from 28 colleges and 6 teachers participated in this series.
- Department of Chemistry organized Workshop on Basic Concepts in Chemistry at V G Vaze College Auditorium on 13th, 22nd October 2013.
- Yearlong organized NET/SET Lecture Series.

2014-15
- Economic Competency Test
- Economics Research Paper Completion
- A Digital Activism workshop was held in December 2014, by the NGO point of view and Safe city.in. About 100 students attended the workshop. The workshop was aimed at promoting gender neutrality and freedom of expression especially for women. It covered topics such as understanding digital privacy, ensuring online security, dealing with online threats, harassment and abuse, gender, sexuality and digital rights in the online section and topics like understanding personal safety, understanding sexual harassment, understanding the law, understanding consent, questioning social stereotypes and norms in the offline section
- Workshop on 'Youth & health' by Young concept August 2014
- The department organized a computerized accounting software training program (use of Tally) for the students of SYBcom. The training program was for eight sessions
- The Commerce Department organized a Group Discussion session in August 2014 for all regular & Self Financing Commerce students to hone their GD skills. The best speakers of Grand Finale were awarded certificates
- On 2nd August, 2014 The Clinton Global Initiative had held a discussion and brainstorming session. Around 110 students underwent sessions which

helped them to think out of the box. Students came up with excellent solutions to the employment problem within a short period of time

Besides these activities, students are encouraged to make:
- PPTs on different topics and carry out different surveys
- MPSC/ UPSC coaching cell, exposes & trains students to appear for competitive exams
- VCTS- Vaze Centre for Talent Search is managed by degree college students. They teach the school students
- Dimensions – An Inter collegiate festival is entirely managed by the students. Where by students develop many soft-skills like communication skills, team-building, co-operation, leadership quality
- Additional courses as referred above help students to go beyond prescribed curriculum
- Students are encouraged and guided by teachers to participate in Avishkar, a Research Competition at Inter University Level

5.2.4 Enumerate the special support provided to students who are at risk of failure and dropout.

The dropout rate in the College is negligible. It has been observed that only students who secure admission for professional courses leave the College at First and Second Year.

The College has earned a reputation of imparting high quality and holistic education to the students in a student - friendly environment. As a result, very few students leave the College to seek admission elsewhere.

Students who have financial problems and are unable to pay fees at the time of admissions contact the Principal regarding this matter and discuss their individual problems with him. Based on the merit of such cases, the students are offered the following options**:**

- Students are allowed to pay fees in convenient installments
- Students are given concessions in the fees

- Fees of deserving but needy students at times are paid by Principal / Management and also by teachers
- There have been a few cases where the students were unable to continue education due to want of money. In such cases, whenever possible, the students are given temporary jobs on campus so that they can study and earn while they learn

Some teachers have sponsored the education of students.

The Placement Cell of the College organizes its annual feature 'Vazeites Who've Made It'. Under this program the alumni of the college visit the institution to interact with the students. This helps students in getting rid of myths about each of the subjects. The alumni who are invited include not only the meritorious students but also those who were not academically inclined, but have emerged successful in their chosen careers. This results in very few students leaving the college for not getting the desired subject or poor performance in the examinations.

The alumni interact with the students and give the required assistance in the form of sharing knowledge and information about job opportunities.

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

To accomplish the stated objectives and graduate attributes of the institution, the college offers a wide range of Sports, Games, cultural and extracurricular activities to students thereby giving them opportunities to develop their potential and global competencies.

Sports and Games: The college is ranked first ten amongst the affiliated colleges in sports.
The college has following facilities:
- The Gymkhana
- Gymnasium
- Special Trainers and Coaches
- Play Grounds (College ground and Mulund Gymkhana)for practice and competitions
- Equipments for indoor games
- Sports Kits and Blazers

The college receives notification from University of Mumbai about various sports events and then Gymkhana in-charge circulates the information to students.
Selection rounds are conducted for various sports events and students are given opportunity to prepare for it with the help of expert coaches.

The college facilitates students' participation in the following indoor and outdoor games at the College, University, State, National and International levels:

Indoor Games	Outdoor Games
Aquatic, Badminton, Boxing, Chess, Squash, Tug of War, Archery, Best Physique, Carom Fencing Gymnastics, Mallakhamb, Judo, Power Lifting, Shooting, Table Tennis, Taekwondo, Weight Lifting, Wrestling, Yoga, Karate	Kabaddi, Kho-Kho, Cross Country, Football, Half Marathon, Basket Ball, Water Polo, Volleyball, Tennis, Athletics, Base Ball, Ball Badminton, Cricket, Cycling, Hand Ball, Hockey, Soft Ball, Rink football, Roller Skating, Wushu

Highlights of Sporting Events: The college has three Shiv Chhatrapati awardees, eight international level participation, seven national level and eight state level winners in different events (Ref 5.3.2 for details).

Shiv Chhatrapati Awardees:

Total Nine students of Vaze college are recipients of Shiv Chhatrapati Award. During last 5 years, following students received the award.

Sr. No.	Year	Name of the Student	Name of Tournament
1.	2012-13	Sandesh Atkari	Gymnastics
2.	2012-13	Sailee Dhuri	Rope Mallakhamb
3.	2015-16	Shraddha Ghule	Athletics

International Level Participants

Sr. No.	Year	Name of the student	Name of Tournament
1	2013-14	Sibin George	Athletics
2	2013-14	Shirin Inamdar	Table Tennis
3	2014-15	Dipashri Karve	Judo
4	2014-15	Sarang Vaidya	Water Polo
5	2015-16	Pranav Mhatre	Water Polo
6	2015-16	Serah Menezes	Tennis
7	2015-16	Pratiksha Daki	Karate
8	2016-17	Jaee Mankame	Gymnastics

National Level Winners

Sr. No.	Year	Name of the student	Name of Tournament	Achievements
1	2012-13	Meghana Nadagounder	Swimming	First
2	2012-13	Aishwary Joshi	Swimming	First
3	2012-13	Hetvi Pasad	Swimming	First
4	2012-13	Kishori Javeri	Swimming	First
5	2012-13	Jatin Tawde	Swimming	First
6	2012-13	Soumya Iyer	Athletics	First
7	2014-15	Santosh Gupta	Water Polo	First

State Level Winners

Sr. No.	Year	Name of the student	Name of Tournament	Achievements
1	2012-13	Shraddha Ghule	Athletics	First
2	2012-13	Shweta More	Karate	First
3	2012-13	Dhanashree Rokade	Karate	First
4	2012-13	Soham Diwadkar	Athletics	First
5	2013-14	Jill Kotak	Gymnastics	First
6	2013-14	Kirti Acharekar	Gymnastics	First
7	2013-14	Shlok Gupta	Swimming	First
8	2014-15	Sarang Vaidya	Water-polo	First

National Level Participants

Name of Tournament	2012-13	2013-14	2014-15	2015-16	Grand Total
Athletics	6	1	--	2	9
Badminton	--	1	--	--	1
Basketball	1	--	--	--	1
Fencing	--	1	--	--	1
Gymnastics	--	2	1	--	3
Judo	--	1	--	--	1
Karate	3	1	--	--	4
Kho-Kho	1	--	--	--	1
Kick-Boxing	1	--	--	--	1
Rifle Shooting	1	--	--	--	1
Swimming	2	1	3	--	6
Table Tennis	1	--	1	1	3
Tennis	--	1	--	--	1
Volleyball	1	--	1	--	2
Water-polo	--	--	2	--	2
Grand Total	17	9	8	3	37

State Level Awardees and Participants

Tournament	2012-13	2013-14	2014-15	2015-16	Grand Total
Archery	--	1	--	--	1
Athletics	5	1	2	--	8
Badminton	--	1	--	--	1
Basketball	1	--	--	--	1
Carom	--	1	--	--	1
Fencing	--	1	--	--	1
Judo	1	--	--	1	2
Karate	--	2	--	--	2
Kho-Kho	1	--	--	--	1
Kick-Boxing	--	--	1	--	1
Rifle Shooting	1	--	--	--	1
Roller Skating	1	--	--	--	1
Rope-Mallakhamb	1	--	--	--	1
Soft Ball	--	1	--	--	1
Swimming	5	--	--	--	5
Table Tennis	--	--	--	4	4
Volleyball	--	2	--	11	13
Water Polo	--	--	1	--	1
Wushu	--	1	1	--	2
Yoga	--	1	--	--	1
Grand Total	16	12	5	16	49

Cultural Activities:

Cultural committee plans and executes events during the academic year. The cultural committee organizes various intra-collegiate events and annual social gathering.

The intra college competitions include singing (Classical and Light Vocals), Dancing (Folk, Bollywood, Contemporary and Western), Stand-up Comedy, Classical and Western Instrumental Competition and *Antakshari*. The college provides a platform to all students to showcase their talent.

The Annual social gathering is a big scale event which highlights the efforts of our students in performing arts like singing, dancing, stand-up comedy and theatre. The response to these events is always overwhelming.

Vithee, the Vaze theatre group is very active and participates in many inter collegiate drama competitions. *Vithee* has brought many laurels to the college over the years.

Extra-curricular activities:
Besides sports, cultural, and *Vithee*, the college has other committees which cover a wide gamut of activities such as- English Literary Association, Hindi Sahitya Parishad, Marathi Vangmay Mandal, Mayur magazine, Fine Arts, VRG, Nature and Hikers Club, NSS, Career Guidance and Placement Cell, Science Association, DEQ, Infotech Association and Life Long Learning giving students a choice to participate in the activity of their interest.

One of the highlights of the extracurricular activities is the annual Inter Collegiate Youth Festival, **'Dimensions'** held in December. It is a two day celebration of literary, cultural, sports, fine arts, mass media and tech related events. This mega event attracts talent from more than 25 participating colleges.

Eminent personalities and celebrities from theatre, cinema, music and media visit the festival and are invited to judge various events. This festival is mainly managed by the students.

The students have participated and won prizes in Youth Festival organized by University of Mumbai.

A detailed calendar of the extracurricular activities is ready at the commencement of the academic year so as to maintain right balance between curricular and other activities.

5.3.2 **Furnish the details of major student achievements in co- curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.**

The students have been very active in cultural events and competitions like Elocution competition, Debate, Singing, Dance, Drama, Mime, Mono act, Mimicry and One-act play. Many of them have won awards at various events.

The range of student participation in cultural activities is as follows: Indian National Theatre (INT), University of Mumbai Youth Festival, Purshottam Karandak, Firodia Karandak, Malhar, Enigma, Mood Indigo, Inspira, Utsav,Aarohan, Utkarsh, Fever Pitch, Papparazzi, Mantra, Pride, Rupantaran and Dimensions etc.

Accolades in Sports/cultural/ extra-curricular:

Our college has a dedicated platform for performing arts known as '*Vithee*' which focuses on dramas, plays, skits etc. Artists from *Vithee* performs at various well known events like Youth Fest (University Festival), INT etc. At present approximately 50 students are part of this group and many of our alumni are already a part of Marathi and Hindi Theatre, Serials and Film Industry.

Achievements:

1. Trash Metal - Enigma fest, Podar college, college group received a first prize in year 2012-13
2. '*Vinchu Chawla*' - A Marathi skit was honored with first prize at Youth fest in year 2012-13.
3. '*Dayan Khaye Jaat Hain*' - A Hindi skit was honored with first prize at Youth fest in year 2012-13.
4. Rutuja Nagwekar - Best actress award at 45th Youth Fest in year 2012-13
5. Vinshkha Hanchate - Best actress award (Consolation) at INT in year 2012-13
6. Shubham Palkar- selected and represented INDIA IN HIP HOP unit championship 2013-14 and secured 10th place among 48 countries and 68 crews all over the world
7. Shubham Palkar and Sarvesh Mistry (2013-14) – secured 1st place in Maharashtra state Aerobics and Fitness Federation and Hip Hop Championship
8. Shubham Palak And Sarvesh Mistry (2013-14) – Winner of District Dance Championship
9. Mayuresh Kolhe and Shreyas Vaidya - Hindi & Marathi Eakankika, won consolation prize at 46th Youth fest in 2013-14
10. Creative Moves of our college secured first place in Ratnam College (Mantra) Western group dance competition
11. Mandar Warankar and Nidhi Prabhu - Secured first and Second place respectively, in Classical Instruments event at 47th Youth Fest
12. Shishir Konnur and Sampada Joshi - Best Actor award (Consolation), Sanskrit one act play.
13. Classical Crew of our college stood 2nd in Dimensions 2014-15
14. Creative Moves crew secured 11th place in Indian Street Dance Championship 2016-17 among 104 crews all over India
15. Pruthvi Bonila secured and Trinetra Sarnobat secured 2nd place ion duet dance competition in Pillai college in 2015-16

16. Trinetra Sarnobat: Secured 1st place in Enigma (Podar college) in solo dance competition in 2015-16
17. Pruthvi Bonila Secured 2nd place in Enigma (Podar college) in solo dance competition 2015-16
18. Samruddhi Kelkar : 1st place in Mulund Mahotsav Solo Classical
19. She secured 2nd place in Maratha Mandir Kala Kendra Solo classical
20. She secured 1st place in Rotract solo classical dance competition
21. She secured 1st place in Sankalp Mandal dance competition
22. 1st place secured by her in Yashashvi Kala Kendra KathakVaishara
23. Students have won various competitions in other colleges such as Photography Abstract Reflection, Classical solo dance, Group Dance, Matka Painting, Mehendi, Crime Scene Joule, Solo Dance, T-Shit painting, Cooking Competition, Tattoo art competition, Poster Making

Yuva Divas:

The program was conducted by University of Mumbai on 11th and 12th January, 2013 on occasion of 150th Swami Vivekanand Jayanti. Objective of this program was to ***"Self - Nurturing "Youth Leadership Network"- An initiative of University of Mumbai"*.** Our college manages the stay facility for students of Khed College, Konkan.

Youth festival:

Youth festival is organized by University of Mumbai every year. Our college was honored to host the elimination round for this event under ZONE - II, on 9th of August, 2016. The Inauguration ceremony took place at the hands of Mr. Aadesh Bandekar a veteran TV host and former Cultural Coordinator of University of Mumbai. There were 31 participating colleges and more than 1000 students took part in various events. The majority prizes in the elimination round went to our college totaling around 9.

National Service Scheme (NSS):

The students undertake various activities such as blood donation camp, tree plantation, social awareness through street plays, cleanliness programs etc. The students and the Program Officer participate in Republic Day parade every year. Two villages and one railway station is adopted by the college under CSR- Corporate Social Responsibility.

A detailed report is given separately(Annexure V A)

Year	Number of Students Enrolled
2012-13	300
2013-14	300
2014-15	300
2015-16	250

5.3.3 **How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?**

The college regularly connects with the students, alumni and the past employers to improve the performance and quality of the institutional provisions.

The Placement Cell provides valuable information from the feedback received by various former and potential employers when they conduct on-campus interviews.

Teachers along with corporate closely monitor the academic progress of the professional courses and use the assessment to focus on areas that need improvement.

Feedback is received from HR teams visiting the college for placement drives. Placement and Career counseling cells look after the whole process of placement right from inviting companies to taking their feedback on course development.

Teachers of various departments and the Principal are open to advice from students, alumni and employers for better performance & quality of institution.

5.3.4 **How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/materials brought out by the students during the previous four academic sessions.**

The College Magazine 'Mayur': The college not only encourages students to write articles on various topics and themes but also conducts language wise creative writing workshops to train them. The college magazine viz. *Mayur* is published every year and distributed the copies among students at the time of results. Students are deputed on editorial board and work under the guidance of teachers. It has been learning experience for students interested in writing and editing as they are part of the production process.

Vaze Chemica – It is an in-house publication of the department of chemistry, initiated in 2009 with the objective of providing a platform for students, alumni and academicians to communicate their valuable experiences and insights in Chemistry. First-hand insights in chemistry research, education and industry that are not only educative but also inspirational are featured in this magazine which is published annually. To this date seven issues have been released. Over the years, several additional sections like Chem-history, View point, Inspiration, chemistry education and vast science have been included in the issues. In addition, fun with chemistry sections which feature riddles, jokes

and crosswords on chemistry are also part of every issue. This initiative has encouraged students to write and communicate their experiences such as from internships etc. Career opportunities in Chemistry, current trends in chemistry research and a special feature on Chemistry education are other highlights of the publication. Inspiration section features interviews with alumni of the department, on how they have achieved their goals after going through the portals of the college and their experiences in the college.

Issues on the theme of global celebrations proposed by the International Union of Pure and Applied Chemistry are also featured as special volumes such as the International Year of Chemistry (2011) and Crystallography (2014). In addition interviews with professionals from academics, research and industry to motivate young readers are also a regular feature of 'Vaze Chemica'.

Wall Papers:
- *Marathi Bhasha Aani Vangmay Mandal:* The students are encouraged to contribute to the wall paper. The wall paper comprises of short stories, poems, essays and articles. Students also work as editors.
- **VRG:** Reports of survey conducted by students of VRG are put up

Research Papers: The students present research papers and posters at national and international conferences.
- Papers presented during the national conference 'Current Scenario: Ease of Doing Business in India – Initiatives, Challenges & Opportunities' were published in 'Research Dimensions' a multidisciplinary national research journal vol. vi, issue: iii, February, 2016.
- Papers presented during the national conference 'Child Labour: Issues and Challenges' were published in *IOSR* and *Research Dimensions,* multidisciplinary national research Journals.
- Papers presented during the national conference 'Revisiting World War I' were published in a compiled volume.
- Papers presented during the 37th All India Botanical Society Conference were published as proceedings.
- Research papers presented by PhD students in conferences outside Vaze College are published in reputed journals and proceedings.

5.3.5 **Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.**

College has Students' Council which is constituted under the provisions of Sec 40 (2) (b) of Maharashtra Universities Act, 1994.

The Student Council (STUCO) is an apex body comprising nominated students from all classes and divisions and from activity groups. Representation is thus ensured for various aspects of college life – academic

achievement, excellence in social work, cultural activities and sports. In addition to this, two students are also nominated as Girls' Representatives.

Vaze College is the only college where Associate Students' Council (ASTUCO) is also formed wherein students who are interested in working selflessly are warmly welcomed without any nominations. Every year the college receives overwhelming response from students volunteering for the ASTUCO.

Role of STUCO -
- To officially represent all the students in the college
- To identify and help, solve problems encountered by students in the college
- To help in maintaining discipline
- To act as a liaison between the student body and the college administration and stand responsible for voicing student opinions
- To promote and encourage the involvement of students in organizing college activities

The Council coordinates various activities and associations working in the college. The Principal, the Chairperson, faculty members, the General Secretary and nominated student members form the Council.

Formation of Students' Council:
- Every year a notice regarding the formation of Students' Council under Section 40(2) (b) of the Maharashtra Universities Act, 1994 is issued and displayed on notice board
- Notification is issued with the signature of the Principal declaring the names of the students nominated on Students' Council at College Level
- The last date to receive the nomination forms for the election of the General Secretary at the college level is declared in due course
- The General Secretary is elected under section 40(3) at college level and is then nominated on University Students' Council
- Activities: working of different committees, helping in cultural events, Dimensions and organization of Annual Day and Annual Prize distribution functions
- The funding for all the activities is through the budget. Student representatives are appointed on various bodies such as cultural committee, gymkhana committee and N.S.S

5.3.6 **Give details of various academic and administrative bodies that have student representatives on them.**

The college provides students opportunities to be members of academic and administrative bodies. The Students' Council is the statutory students' body. The General Secretary is a member of IQAC, Students' Grievance Cell and

Women's Development Cell. The college magazine has a student editorial board. To ensure the comprehensive, well rounded development of students, activities are conducted in the college under the banner of various committees. Students are encouraged to organize extracurricular activities so as to develop critical, analytical and leadership abilities. Nature Club, Cultural, NSS, Gymkhana, *Vithee* and Literary Associations' activities are ably managed by the students. Intercollegiate Festival 'Dimensions' sharpens their capabilities to relate and use knowledge in real life and work situations. Students perform various tasks such as planning, organizing, marketing, handling logistics, mobilizing funds through sponsorships and maintaining discipline. All these opportunities help in developing social, moral, cultural and aesthetic values in the students.

5.3.7 **How does the institution network and collaborate with the Alumni and former faculty of the Institution.**

The college has an Alumni Association and has made provision on its website for alumni to register themselves. Two distinguished alumni are felicitated every year during the annual prize distribution function. Alumni are invited for talks and for conducting workshops. Alumni reunion / meetings are organized every two years.

Mailing list of former faculty is updated regularly. They are invited as resource persons at special events such as workshops, seminars and departmental activities. Their services are utilized as visiting faculty. The college felicitates two retired teachers every year on Teacher's Day.

The college ensures upward student mobility by providing post-graduation courses and research opportunities. Some students are employed in the SRC and cosmetology divisions.

Any other relevant information regarding Student Support and Progression which the college would like to include.

1. College organizes annual intercollegiate cultural festival, Dimensions. The event showcases literary events, performing arts and IT games. It has helped the student volunteers to develop life skills, event management skills and marketing skills. Student volunteers who have been associated with this event in the past have made progress in their lives and are placed well in media and corporate houses. By managing a footfall of nearly 10000 students from 80-90 colleges and around 1800 participants, Dimensions is a key student-centric attribute of Vaze College. The event is entirely planned and managed by the students.

2. Associate student council -ASTUCO is a unique feature of the college.
Along with the student council which comprises of merit based nominated candidates, students with intention to work voluntarily for the college enroll themselves in ASTUCO. They assist in organizing various activities of the council. This the platform provided to the students to develop organizational and leadership skills.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc?

Vision: To grow and consolidate as one of the foremost autonomous centres of excellence in learning that contributes to sustainable and inclusive development of a knowledge driven society and economy.

Mission: To improve society by educating the youth and enabling them to become highly qualified and matured men and women, able to meet the need of all human activities.

Goals and Objectives:
- Impart in-depth knowledge through empowerment of teachers and a robust self rule governance mechanism
- Leverage resources to improve the quality of effectiveness of education
- Ensure the comprehensive well rounded development of students by developing
  a. Critical, analytical and leadership abilities
  b. Capability to relate and use knowledge in real life and work situations
  c. Vocational / Professional and global competencies and skills
  d. Values: Social moral, cultural and aesthetic
- Empower faculty for collaboration and consultancy with industry, NGOs, Government Organizations and user sectors
- Cultivate an inclusive working culture where all stake holders are aligned to achieving institutional vision and mission
- Ensure every student to be a proud Vazeite with a specific set of graduate attributes

A community of skillful, mature, tolerant youth with global competencies is the basic need of a society. Vaze College with its philanthropic philosophy of No Business in Charity and No Charity in Business, has envisioned this need. Its mission underlines youth empowerment through quality education and research and is in tune with this societal need. With a thrust on excellence, in a short span of three decades, the institution has made its mark in the academic community.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

Quality Policy:
As an affiliated college, along with all other norms prescribed by the Mumbai University, the philanthropic principle of our founder chairman Shri G D Kelkar of 'No Business in Charity and No Charity in Business' is firmly adhered to in ensuring inclusiveness and transparency in all functional

activities. The focus is on helping students identify and realize their potentials, apply knowledge in real life and work situations and develop global competencies and skills. College strives to create young men and women graduates who are gender sensitive, have a secular outlook, balance traditional and modern values and can imbibe and manage change to emerge as world citizens.

The top management has been supportive of all quality initiatives from the inception of the college. This support was instrumental in making Vaze College as the first academic institution in Maharashtra to get accredited with 'Five Stars' in 1998 when accreditation was not mandatory.

The role of the top management in implementing the quality policy is in providing financial and infrastructural support. Right from inception, the management is committed to quality education. All activities are aimed at achieving excellence.

Every stakeholder is involved in the evaluation of the college since 1984. Admission is purely on merit. Recruitment of faculty and staff is only on merit. Choice of curriculum is aimed at global competency building of students. G D Kelkar Skill Development Centre and Finishing School has been set up to facilitate all round development of students.

The college promotes interactive and ICT driven teaching-learning. CBCS and continuous assessment is followed in evaluation. All teachers are motivated to enrich themselves to be abreast with the latest developments. Incentives are offered for teachers engaged in research. Infrastructure is updated to meet increasing needs. Governance is totally decentralized. Quality and Feedback systems are set up to monitor and regulate performance. Alumni and Parents are actively involved in the development of college.
Regular faculty and HOD meetings also provide feedback for improvement.

The Principal ensures that these policies are implemented through academic, co-curricular and extra-curricular activities. Faculty members are conscious of their role in sustaining quality.

To ensure effective transfer of quality policy from the management to the staff, the college adopts following practices:
- Implementation of merit based admission policy
- The management interacts through CEC with the college stake holders – Principal, Vice Principal by way of monthly meetings
- Staff management get together is held every year on Founders Day
- Monthly meetings of HODs in which the Principal communicates the management policies and plans. The HODs collectively discuss the effective implementation of the same

6.1.3 **What is the involvement of the leadership in ensuring:**
   ✓ **The policy statements and action plans for fulfillment of the stated mission**
   ✓ **Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**
   ✓ **Interaction with stake holders**
   ✓ **Proper support for policy and planning through need analysis, research inputs and consultations with the stake holders**
   ✓ **Reinforcing the culture of excellence**
   ✓ **Champion organizational change**
   ✓ **Ensuring the policy statements and action plans for fulfillment of the stated mission:**

The policy statements and action plans for fulfillment of the stated mission:
- Plans are made to comply with the college vision, mission and leadership to achieve institutional goals and objectives in the monthly CEC meeting
- Academic, Activity and Office Audit are conducted every year. The reports of such audits identify the strengths, challenges and weaknesses. Plans are made to overcome difficulties and implementation of existing systems and policies
- There is a healthy interaction on various issues at the monthly meetings of Principal with HODs. Suggestions made by Heads and staff are discussed and put into perspective under the guidance of Principal and Vice Principal

Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan:
In addition to Principal's meetings with the HODs, departmental meetings are conducted:
- To plan teaching session
- Departmental activities
- Communicating plans and suggestions at HODs meeting to staff

Meetings of CEC and LMC on regular basis help to discuss and sort out issues pertaining to the actual functions of the institution.
Academic Calendar is prepared for every year shows in detail events during the year – examinations and co-curricular, extra-curricular activities.

Interaction with stakeholders:
- Principal and Vice Principal have always encouraged open communication with staff, students, non-teaching staff, administrative staff and alumni
- Orientation program for students
- Parent teacher meetings at departmental level
- Grievance redressal of all stakeholders by Principal and suggestions taken note of
- Information dissemination regarding attendance of wards through a mobile app
- Performance appraisal of teachers by students
- Feedback from students on different activities and facilities

- Hosting visitors from industries, NGO's working in areas of environment and green technologies contributing to social development
- College in co-ordination with SPICMACAY – host performances by eminent maestros

Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders:
- The needs of the staff are communicated to the college authorities through the staff common room meetings, LMC and HOD meetings. Individual staff members have free access to the Principal and Vice Principal. Principal takes cognizance of the staff needs and appropriate action is initiated.
- The Principal interacts with student bodies at regular intervals to understand and address their needs and grievances
- Emphasis on research has been the distinctive characteristic of the institution. The state of the art laboratories have been developed for basic and advanced research for students and faculty. Strong industry linkages have been established to enhance the quality of research. Research in Humanities and Social Sciences has been encouraged through the setting up of PhD centers. Such a developed research culture expands the horizons of the teachers enabling them to translate the knowledge and skills in classrooms
- The academia- industry- agriculture linkage has played an important role in establishing the state of the art laboratories. Various eminent scientists, industrialist and academicians who visited the college have shaped the vision of the faculty with respect to the changing global needs. As an outcome, curricula have been modified to create global competencies. The establishment of the G D Kelkar Skill Development Centre and Finishing School is the initiative of the management. The faculty involvement in research bodies and institutions is encouraged by the management

Reinforcing the culture of excellence:
As has been the practice, the college continues to nurture excellence and facilitates a dynamic learning experience.
- Staff is encouraged to participate in trainings, workshops and seminars and the achievements are acknowledged by felicitating them on Teacher's Day
- Students achievements are recognized through special achievement award, prizes, scholarship in academics, sports, co and extra-curricular activities
- One alumnus achiever is felicitated during prize distribution function
- Existing infrastructure facilities have been supplemented by new facilities like an additional floor for classrooms, setting up of language, commerce and e-learning lab
- Financial assistance is given to teachers
- FDP for aspirants pursuing PhDs
- Students are sensitized on social issues by encouraging their participation in social activities
- Students guided for various essay, debate and elocution competitions
- Contribution of eminent Indian personalities is publicized through a photograph and write up about them on specific days

(Ref: Annexure VI-A)
- Contribution of eminent scientists is displayed by students of Physics on students' notice board and is compiled for further use

Champion organizational change:
- Office automation with new software
- Up-gradation of Library and a separate website for library
- Setting up of the Commerce Lab, Language Lab and the E-learning Lab
- Development of new infrastructure by way of an additional floor
- Nurturing young faculty to participate in college activities
- Increasing use of technology like introduction of Online payment system

6.1.4 **What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institutions for effective implementation and improvement from time to time?**

- IQAC has been formed as per requirement of NAAC. IQAC meetings are held regularly wherein needs of infrastructure, administration, teaching learning are identified and IQAC acts as an intermediary for the Principal by suggesting measures to facilitate improvement
- Monthly meeting of the Principal with HODs is a platform for the Principal and the Heads of the Departments to discuss institutional development plans. HODs present a monthly report on activities conducted during the month. Principal reviews the departmental activities of the previous month
- Departmental meetings are held to disseminate and share information. The departments maintain minutes of the meetings to maintain the record of departmental activities
- The implementation of institutional plans and policies are monitored on the basis of reports of Academic, Activity and Administrative Audit and Government Audit
- Teachers maintain a Teachers Diary which is a record of daily lectures and/ or activities and monitored by HODs
- Responsibilities are delegated to staff members in administrative and academic work

6.1.5. **Give details of the academic leadership provided to the faculty by the top management?**

The college management is an enlightened body. It was originally led by Shri G D Kelkar, industrialist and world renouned Perfumer (the only Indian honoured by the French Society of Perfumers). He was also the President of CHEMEXIL and worked on UNIDO committee. The former Secretary, Dr R A Kulkarni, was an educationist, having worked as Principal of a reputed college known across the country and Director of College Development Council of the University of Mumbai.

The present management is led by Mrs Jyoti Bhadkamkar, a management expert and director of companies. She contributes to the women

entrepreneurship development program of Maharashtra Chamber of Commerce. Mr Ramesh Vaze is a leading industrialist and a philanthropist. Mr Dhananjay Sathe also heads a company and is on management board of another leading educational institution. The present Secretary, Dr M R Kurup, was the founder Principal (1984-2003) and is a recipient of the Best Teacher Award from the Government of Maharashtra. He has also worked as World Bank Consultant of Quality Assurance in Higher Education, and is responsible for initiating NAAC accreditation process in Maharashtra. He was member of the first Higher Education Council of Maharshtra State as well as State Level Quality Assurance Cell. He has been a NAAC Peer Team member since 1998 and a Resource Person for Assessors' Orientation Programs (AIM) conducted by NAAC. He interacts with college faculty as a Resource Person for most the conferences/seminars conducted in the college.

The management provides inspiring leadership and the necessary funding for development of the college. The Academic-Industry interface, Entrepreneurial Skill Development and leadership in the field of research are natural corollary for the institution.

Every academic year begins with a Management-Staff get-together on 20th June, where the performance of the previous year is reported and reviewed. Plans for the current year are unveiled.

Management has always provided an open access to the stakeholders whenever needed.

- At the departmental level new teachers are oriented and made aware of the culture and work ethics of the institution and teaching learning methods
- Through the G D Kelkar- R A Kulkarni lecture series eminent academicians / personalities are invited to deliver the lectures on issues of interest to public at large
- Staff members are allotted different academic committees such as Examination Committee, Library Committee, Academic Calendar Committee and IQAC on a rotation basis where senior and junior staff work together. This practice of 'Education for Succession' creates academic leaders
- To promote academic leadership through research, the teachers are encouraged to take up major and minor research projects, participate in conferences, publish papers, books etc. To facilitate this, a Research Promotion and Staff Colloquium Committee is constituted. The management reimburses the conference fees and travelling expenses
- Management has identified consultancy as the cutting edge of academic leadership. Accordingly, the departments are encouraged to take up honorary and professional consultancy in their respective areas of learning
- Research Scholars' Meet is held annually by the Science Departments. It provides a platform to share new ideas, discussion of the research work and the preparation for PhD open defense

6.1.6   How does the college groom leadership at various levels?

The college grooms leadership at various levels of the hierarchy through a process of decentralization and participative management.

- **At management level:**
  - The top management has included second and third generation members of the Kelkar family as trustees of Kelkar Education Trust and members of the College Executive Committee.
  - The management appoints a senior educationist as the Secretary of the Trust to groom and guide the Principal. The Principal is the head of the institution and is a link between the management and the staff.
  - The office of the Vice Principal is held by the senior most faculty on a rotation basis for three years. This helps to groom leaders for the office of Principal.The present Principal of the college was the Vice Principal; and the Vice Principal from 2012 – 13 to 2014 – 15 is currently the Principal of a reputed college in Navi Mumbai.
  - The Principal and Vice Principal attend the CEC meetings
  - LMC is an elected statutory body and the meetings are regularly held

- **At Teachers Level:**
  - Heads of Departments are entrusted with the routine administrative work at the department level in consultation with members of the departments.
  - Teachers are conveners and members of different administrative committees and activity groups and are involved in decision making related to these activities. These committees are reconstituted after every 3 years so that teachers get exposure and insight into the functioning of the wide range of committees / activities.
  - Faculty is encouraged to take academic responsibility at university level. Many of the teachers are members of various university bodies. (Refer to Criterion 1 for details)

- **At Administrative Level:**
  - The Registrar is the head of the administrative office. He is assisted by the accountant, office superintendent, senior and junior clerks. During the period under assessment, a few of the senior administrative staff superannuated. However, the college did not face much administrative problem as junior staff were trained and prepared for higher responsibilities
  - Training programs for overall development of skills of the office staff were organized for effective use ICT and ERP

- **At student level:**
  - Besides statutory bodies like Students' Council, the college as a unique initiative has constituted an Associate Students' Council which hones the leadership skills of the students. The Associate Students' Council is a voluntary body of students who would like to work voluntarily and selflessly for the institution

- Every activity group has a student coordinator who acts as liaison between teacher coordinators and student volunteers and thereby learns valuable lessons in leadership
- The college has an inter-collegiate festival – Dimensions which provides a platform for the students to learn the basic lessons in management. The event trains the students in responsibilities such as accounting, hospitality, branding, event design, event logistics, sponsorship, housekeeping and security

6.1.7 How does the college delegate authority and provide operational autonomy to the departments/ units of the institution and work towards decentralized governance system?

The Governance is totally decentralized.
College Executive Committee is the management authority. Two out of 6 members – Principal and Vice Principal are from the college.

Another statutory authority (Section 85 of University Act) is the LMC. Three teachers, a non teaching staff are members and the Principal is the Secretary.

The Vice Principal and Convener of IQAC play an important coordinating role. The Principal has delegated functional authority to the Vice Principal to carry out day to day administration and any other specific work allotted. IQAC is in place to help the Principal and Vice Principal in the administrative functioning of the college.

The Principal conducts monthly HOD meetings wherein he proposes plans and ideas which are open to discussions. Such a kind of participative decision making process ensures consensus on such ideas. The outcome of the Principal and HOD meetings are communicated to other staff members by the HODs in the departmental meetings. Minutes of departmental meetings are properly documented.

Heads of the Departments provide leadership to the respective departments.
Departments have autonomy to plan their teaching and curriculum activities within the frame work of the prescribed curriculum and assessment and evaluation system set by the university. There is no interference by the administration in the day to day functioning of the departments. The departments have the liberty to organize departmental programs, talks, workshops and industrial visits. Staff members adopt different teaching methodologies and they are encouraged to work on research projects and consultancy.

Meetings with non-teaching staff of science departments are conducted by to review the progress. Suggestions are sought for overcoming challenges.

The Principal also interacts with the non teaching, administrative staff once a month to delegate duties and responsibilities and to review the functioning.

College has 48 committees for co-curricular and extra-curricular activities which are given operational autonomy. The committees have clearly defined functions and conduct their activities under the guidance of conveners.The conveners delegate responsibilities to the student volunteers.

Each decentralized group prepares Plan of Action and budget is sanctioned by the Principal. These activities form part of the Academic Calendar. Minutes are maintained and annual report submitted to the Principal and for magazine.

6.1.8 Does the college promote a culture of participative management? If 'Yes' indicate the levels of participative management.

Yes. Through the office of the Principal and Vice Principal who are responsible for overall functioning (all academic and administrative activities) of the college.

At departmental level, Heads of Department along with department staff members are responsible for departmental work and administration.

Different committees (curricular and extra-curricular) are responsible for conduct of various programs throughout the year under the guidance of committee conveners and with the help of student volunteers.

The Principal holds monthly HOD meetings as well as term end meetings with the entire staff.

Student Council acts as a liaison between the student body and college management and helps in conduct of various activities during the year.

Registrar and office staff is responsible for all administrative functions.

IQAC is a link between the Principal and staff and students.

LMC has representatives from teaching and non-teaching staff.
Laboratories have a defined administrative structure in which Lab assistant and attendants look after technical duties, petty cash management, security and safety of laboratories. They also assist the HODs of the Science Departments in conduct of practicals maintaining student records and records of research funding.

6.2   Strategy Development and Deployment:

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Yes, the college has a formally stated quality policy. This policy has been drafted keeping in mind the vision, mission and goals and objectives of the college. The policy aims to facilitate excellence not only in academics but also in sports, extra-curricular and cultural activities.

The quality policy is reflected in all activities of the college and is driven by the Principal, Vice Principal, IQAC, HODs, conveners of committees and the Registrar. The college deploys its quality policy in its fair and transparent admission procedure, recruitment and constitution of staff and student bodies. The college activities aim at quality enhancement of the learners even while striking a balance between values, secular outlook and global competencies. The quality policy is reviewed periodically to match the changing global scenario of higher education.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

Yes. IQAC has formulated a five-year Perspective Plan for future development. This has been approved by the College Executive Committee. The perspective plan is based on the changing scenario, policies of higher education and needs of the learners. The aspects considered for the current plan for the period 2015-20 is as given below:

- To enhance the academic flexibility, establishment of DDU-Kaushal centre and launching of new short term skill enhancement courses in emerging areas such as biotechnology, fashion technology, cosmetology, professional communication, foreign languages, interior designing, stock market operations and travel and tourism.
- To strengthen the traditional and core courses in basic and social sciences and humanities
- To make the teaching learning process more student centric
- To facilitate extensive use of ICT in teaching, learning and evaluation
- To increase the number of smart classrooms
- To augment the existing research facilities in terms of establishing new laboratories and updating existing ones
- To encourage research in humanities and commerce faculty
- To extend the research facilities to students thereby enhancing research aptitude and interest among them
- To maintain the existing infrastructure
- To create a new wing for curricular and extracurricular activities
- To enhance the internet facilities in the library
- To have a registered alumni association thereby increasing the involvement of alumni in the college functioning
- To develop a formal mechanism to track progression of students
- To promote extensive use of ICT in all administrative procedures
- To digitize office records
- To enhance the activities under ISR
- To deploy solar energy by installing solar panels for sustainable development and making the college campus eco friendly
- To create awareness campaigns for a zero waste campus model, e-waste management, energy audits, safety audits
- To achieve milestones like Autonomy and Centre of Excellence

6.2.3 **Describe the internal organizational structure and decision making processes.**

The diagram given below indicates the internal organizational structure and the decentralized decision making process.
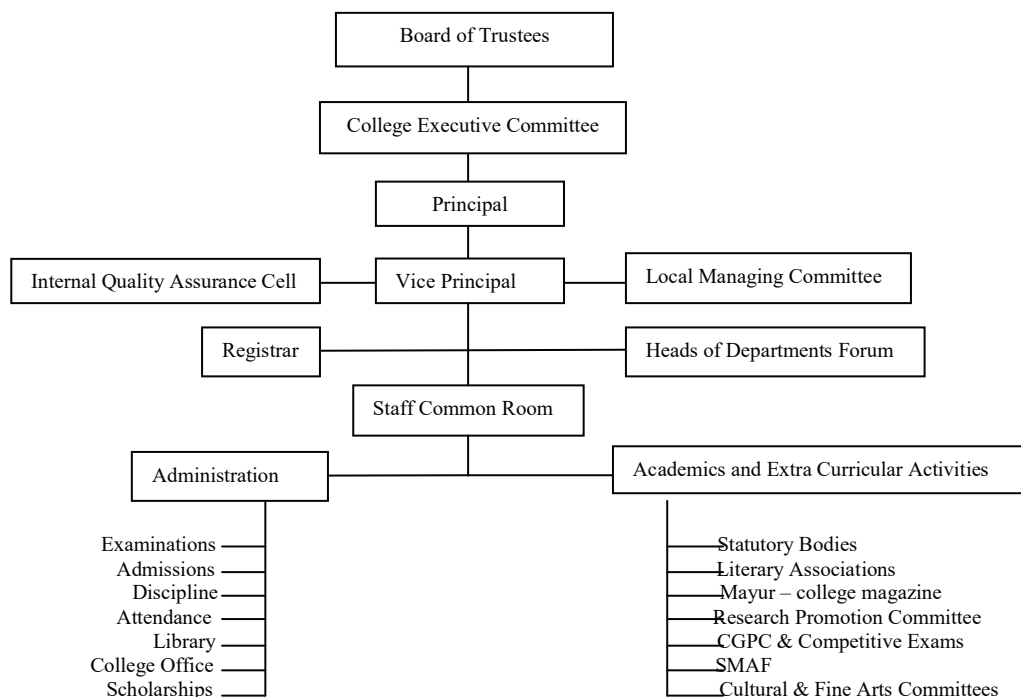
6.2.4 **Give a broad description of the quality improvement strategies of the institution for each of the following:**
- ★ **Teaching and learning**
- ★ **Research and Development**
- ★ **Community Engagement**
- ★ **Human Resource Development**
- ★ **Industry Interaction**

Teaching and Learning:
- Innovative approaches: In addition to routine chalk and talk method, departments conduct educational tours, industrial visits and field visits
- Staff has access to online tools like e-books, e-journals through inflibnet
- Introduction of Certificate Courses to facilitate better understanding of the subject
- Mentorship program for students
- Staff is encouraged to attend subject related workshops, talks and seminars to enhance subject knowledge.
- Academic calendar is planned for the entire year
- Teachers maintain daily dairy to show the teaching plans, time table and details of lectures taken.
- New programmes have been introduced like PhD in Physics, English and History, MSc, MCom, new division for BAF and BMS

- College has developed additional infrastructure including a new floor, laboratories and class rooms for new courses
- The college has many short term skill enhancement courses under the banner of G D Kelkar Skill Development Centre and Finishing School

Research and Development:

Right from the inception of the institution, research was the major thrust area. The college has been deploying the following strategies to promote excellence in R&D

- Establishment of state of the art laboratories
- Patents
- Establishment of research centres
- Annual Research Scholars' meet
- Active Research Promotion and Staff Colloquium Committee
- Staff encouraged to take up major/ minor research projects
- Publication of research journal – *Vaze Vistas*
- Students encouraged to present papers in various conferences and also in competitions including 'Avishkar', the inter-university research festival.
- Undergraduate students are initiated to research and market surveys through Vaze Research Group

Community engagement:

- The college has a clear ISR initiative - VAZE VISION: Centre of E-Resources for Visually Challenged Students. The purpose of setting up this centre is to make the e-resources available to the visually challenged students, who are deprived of accessing them due to the visual impairment
- Engagement with the community through extension programs of NSS and Students' Council
- The college has adopted 4 padas of Bendshil village near Badlapur. Students of NSS and Students' Council visit the village and have helped in the construction of small bunds for water conservation and are helping in the maintenance of the pre-primary and primary school
- Under the Central government scheme of '*Swachh Bharat Abhiyaan*', the college has also adopted Mulund railway station to look after its cleanliness as permitted by station authorities
- The college through its Scientific Research Centre already has a well developed outreach/ buyback programs with farmers to provide them guidance regarding cultivation and buy back of their produced which ensures them a market as also proper price for their produce

Human Resource Management:

- Management follows provisions and rules of UGC and Maharashtra Government in recruitment for aided and unaided courses
- Annual performance appraisal of teachers by students is analysed and appropriate action is taken
- SWOC analysis of the department is done annually through academic audit
- Office and administration SWOC analysis is done through office audit

- Teachers pursuing doctoral research are encouraged to avail leave under FDP and their tuition fee is also reimbursed
- Tuition fees of wards of teaching and non-teaching staff is reimbursed by management
- In-house training program is conducted for library and office staff
- Staff motivated to participate in in-house/ external workshops, seminars, conferences, research projects
- Celebration of Teacher's Day by felicitating teacher achievers
- On the occasion of International Womens' Day, two lady staff members are felicitated
- On superannuation a farewell program is organized in which the management gifts a 10 gm gold coin to the retiring staff member

Industry interaction:
- Well placed alumni help the Placement Cell by informing about vacancies Placement Cell arranges for graduate campus placements every year
- Organizing industrial visits by all faculties of aided and un-aided courses
- Industry experts are invited to deliver talks
- Industry experts are invited as visiting faculty for some courses
- Professional and honorary Consultancy (Refer Criteria 3 for details)

6.2.5 How does the Head of institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The Principal ensures that adequate information is available for the top management and stakeholders by obtaining reports of all activities including the working of departments, various committees and industrial visits.

All important activities and achievements of students and staff are reported I the college magazine which is distributed to the students. The magazine thus becomes one such collection of information.

The Principal gets a feedback on the teachers and students through the Teachers' diaries, attendance records, biometric records, CCTV footage, academic and office audit reports, performance appraisal of teachers by students and unstructured, informal meeting with staff in staff room during recess.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The Management recognizes that motivation and job satisfaction improve efficiency of the institutional processes; hence participative management is encouraged through:
- Staff members participate in all institutional processes including admission, recruitment, routine administration, ISR, outreach programmes, forward integration with industry and agriculture

- IQAC plays an important role in improving the effectiveness and efficiency of the institutional processes
- LMC represents the staff in their interaction with management at CEC meetings
- Two way communications in regular staff common room meetings, HOD meetings, departmental meetings andmeetings of the activity groups improves efficiency of the institutional processes
- Regular feedback from the students, parents and alumni helps in the process of institutional building
- The inputs from the various activity groups impact the efficiency positively

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

Given below is the list and status of the resolutions made by the College Executive Committee during the last year:

Date of Meeting – 16th June 2015

S N	Resolutions	Action taken / Status
1	Mediclaim policy for non-teaching staff	To be taken on condition that premium should be shared by staff.
2	Quotation from C.S. Technologies for maintenance of computers for A.M.C. for one year i.e. 1st April 2015 to 31st March 2016.	Accepted
3	Felicitation of superannuating staff:- a) Dr.Ashok Mishra, Assistant Prof. in Hindi b) Mr.J.R.Labde, Assistant Teacher in Marathi c) Mr.A.N.Gdkari, Lab.Attendant in Physics	Committee formed to arrange the programme.
4	Amount for setting up of a) Language Laboratory b) Commerce Laboratory c) E-Learning Laboratory	Amount of Rs.10 lakhs sanctioned.
5	Continuation of Existing security Agency	Sanctioned
6	Appointment for Head for department of Hindi in degree college	To be appointed as per university norms.
7	Advance for conduct of conference by Humanities & Social Science Dept. on 27th& 28th August 2016	Rs.25000/- sanctioned (Conference held in August 2015)
8	Appointment of Dr.S.P.Bhave as Vice-Principal on rotation for three years from 21st June 2015	Sanctioned and appointed
9	Change is signatories for Scholarship account at Union Bank of India	Resolution passed that new signatories will be Principal Dr B B Sharma and Vice-Principal Dr S P Bhave, for operating the said account.
10	Leave application from: a) Mrs.Kavita Mehta for special leave of 4 days from 8/6/2015 b) Dr.P.N.Pabrekar, to attend international conference during the period mentioned below:- i) 29-30 May 2015 at Canada ii) 9-10 June 2015 at London	Sanctioned Sanctioned

![V G Vaze College logo] V G Vaze College

Date of Meeting – 26th August 2015

Sr	Resolutions	Action taken / Status
1	Adoption of Mulund Railway station	Adopted for Cleanliness and Beautification
2	i) Increase in remuneration of SFC teachers (adhoc appt.) ii) CHB payment of PGDPCM be increased from Rs 500/- p.m. to Rs 600/- p.m. iii) Regular CHB lectures-Rs 400/- p.m. to Rs 450/- p.m. iv) Remuneration to Principal for SFC courses to be increased from Rs 5000/- to Rs 6000/- p.m. w.e.f. 1/9/2015. v) Increase in salary of Peon Mr Prabhakar Kadam for SFC	i) Increase given @ Rs.1000/- on yearly basis. ii) Done iii) Done iv) Done v) On completion of 1 year of service
3	Appointment of 2 Peons on compassionate ground	After receiving No Objection Certificate from Government & subject to medical check up and police verification.
4	Approval of appointment of Dr.V.Kurusu, Assistant Teacher in Economics, Vaze College	Received
5	4th floor construction	Will be undertaken (completed)
6	Group mediclaim for non-teaching staff	Will be taken. Premium of Rs.1.8 lakh for Class IV employees, out of which 50% of amount Rs 90000/- will be borne by Management.

Date of Meeting – 5th October 2015

Sr	Resolutions	Action taken / Status
1	Promotion of Mr D M Bhatt, Head Clerk to Office Superintendent w.e.f. 1/10/2015	Promotion given from 1/10/2015 subject to approval of the Joint Director, Mumbai Region.
2	Application of Dr Satwant Balse, regarding restoration petition for her de-reservation proposal	Action taken at appropriate forum
3	Attaching sensor to water tank	Quotation accepted and work order given to M/s. Sai Electricals
4	Quotation for Canon Hygiene range at washroom services for women	Quotation accepted and handled by Women Development Cell & Science Association
5	Digitalization of all processes in the college (hardware & software)	W.I.P.
6	Remodelling of college website	Done under the able leadership of Dr.S.P.Bhave
7	WIFI connectivity to students and others	Being considered
8	Application of Mrs B S Mahuli to continue as Accountant post retirement with 75% of last salary drawn	Discussed by Dr M R Kurup and Mr A D Bhorkar, matter communicated to Mrs B S Mahuli (Policy of not to give extension to any staff as a policy matter)

Date of Meeting – 5th December 2015

Sr	Resolutions	Action taken / Status
1	Application of Dr Madhubala Swami as PhD guide in Research Centre in Economics of our College	Matter being considered

2	Leave application on medical grounds for two months by Dr L R Thatte and Dr K L Samal	Sanctioned for 1 month. Management has also taken a stand that henceforth it cannot sanction long leave to teacher on extension.
3	3rd G D Kelkar – R A Kulkarni Memorial lecture series – sanction of Rs 50000/-	It was sanctioned. Lecture series was to be held on 6th and 8th February 2016.
4	Appointment of Mrs Supriya Kambli as I/C Accountant	Confirmed at additional incentive of Rs 1000/- p.m.
5	Appointment of new Heads, Departments of Zoology and Physics, due to retirement of existing heads	Dr S P Bhave will work as Head of Physics Dept. and Dr Vinod Ragade as Head of Zoology Dept. subject to fulfillment of university norms.
6	Proposal to dig borewell for harvested rain water	Matter discussed and sanctioned
7	Remuneration of Dr Bichismita Sahu in Advanced Research Lab. For Natural & Synthetic Chemistry	Payment should be given from project money canvassed by Advanced Research Lab. For Natural & Synthetic Chemistry & not from college funds or UGC/University grants
8	Dr.Sharma requested for budget provision for 4th Cycle of NAAC due in March 2017	Sanctioned

Date of Meeting – 2nd April 2016

Sr	Resolutions	Action taken
1	Conduct of University Academic Audit	Confirmed that University Academic Audit will be held
2	Application of Ms Tejashree Dandane, for increment on completion of MCom degree	Granted one increment
3	Confirmation of i) Dr V Kurusu, Assistant Teacher in Economics ii) Mr Zulfikar Shaikh, Laboratory Attendant iii) Mr Vikas Nikalje, Library Attendant	Confirmation letters be given on confirmation of probation period.
4	Adhoc appointment in 2015-2016	CEC declared that such teachers be issued termination letters w.e.f. 30th April 2016.
5	Absenteeism of Mr Sunil Satpute, Laboratory Attendant in Physics department	CEC decided that if he does not report within 48 hours, he will be terminated from service.
6	Applications received from i) Leave of Dr S B Dey to visit USA for graduation ceremony w.e.f. 6 – 19 June 2016 ii) Mr B K Giri regarding increase in remuneration for degree college work iii) Mr Jitendra Dhawale, FYBSC student, for job	i) Sanctioned ii) Not sanctioned iii) Temporary job sanctioned so that he can pay fees

Date of Meeting – 29th April 2016

Sr.	Resolutions	Action taken
1	Discontinuation of Peon Shri Harish Kashinath Ghotkar, w.e.f. 1st April 2016	Sanctioned as he did not report for duty nor replied to letter sent regarding the same from college
2	Applications received i) Leave of Ms Vandana Kadam, IT teacher ii) Mr Anil Naik to visit USA for family function iii) Mr Prabhakar Kadam, SFC Peon, for increase in salary	i) Sanctioned ii) Half pay leave sanctioned from 3rd – 26th August 2016 iii) Considered and decided that he should start from minimum scale like others.

6.2.8 **Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If 'yes' what are the efforts made by the institution in obtaining autonomy?**

Yes, the affiliating university has the provision for according the status of autonomy. The college has initiated the process of applying for autonomy. The Principal has conducted several meetings and discussions with the staff (teaching and non-teaching) as well as students to share information about autonomy.

Principals of autonomous colleges were invited to share to their experiences of autonomy.

6.2.9 **How does the Institution ensure that grievances/ complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?**

Yes, the college has a mechanism to analyze the grievances for promoting better stakeholder relationship. Committees like the Grievance Cell, Women's Development Cell and the Special Cell work in co-ordination with each other to handle the grievances.

- Grievance Redressal Cell: The main objective of the Cell is to look after grievances of the students. Grievance boxes are kept in strategic areas such as library and canteen in which the students can drop their complaints. At periodic intervals, the convener of the committee goes through the grievances and after discussion with the Principal and other committee members offers solutions. Once in each term, the Principal and Vice Principal meet the students in an open forum to listen to their grievances and offer solutions to their complaints. Grievances could relate to infrastructure, academics, gymkhana, library, laboratories, canteen or any other matter.

- Serious grievances of staff are addressed by the Principal through the appointment of need based committees. Minor grievances are resolved by the Principal on a one to one basis.

- Women's Development Cell: The WDC is functioning since 2002 – 03. Its focus is to look into grievances of women staff members (Teaching & Non-teaching) as well as students. The WDC organizes special programmes for girl students such as selfdefense training, gender sensitization, and counseling.

- Special Cell: The Special Cell oversees the implementation of the reservation policy. It monitors the working of the remedial coaching scheme in the college, deals with representations received from reserved category candidates regarding their admission, recruitment, promotion and any other similar matters. The main function of Special Cell is to work as a Grievances Redressal Cell for reserved category students and teachers and render necessary help in solving their academic as well as administrative problems.

- Schemes for the benefit of reserve category are well publicized and implementation is ensured by Special Cell

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The Principal, Vice Principal and members of Grievance Redressal Cell, Women Development Committee and Special Cell Committee work in co-ordination with each other and are very prompt in the Redressal of every grievance.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the Institute? Provide details on the issues and decisions of the courts on these?

No court cases have been filed by and against the college in the last four years.

6.2.11 Does the institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Yes. The institution has a mechanism for analyzing student's feedback on institutional performance. The IQAC has designed a performance appraisal of teachers by students. It includes parameters such as subject knowledge, communication skills, regularity and punctuality and availability and willingness to resolve student difficulties.

The IQAC also seeks student feedback on the support system of the college including the laboratories, library, college office and canteen.
From this year Mobile App based feedback is taken.

The feedback is analyzed by the IQAC and communicated to the Principal who in turn communicates it to the respective departments for necessary action. In the Self financing courses, where the faculty engages in different papers semester wise, the feedback plays an important role in assigning the teachers the courses to be taught by them.

The feedback on the support system contributes towards quality enhancement. For instance, on the basis of the feedback, the canteen facilities were improved by increasing the number of food items on the menu and subsidizing the prices.

6.3 Faculty empowerment strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of teaching and non teaching staff?

The institution is committed to professional development of its teaching and non teaching staff. The following are the proactive initiatives taken
For Teaching Staff:
- Guest lectures by eminent speakers
- LCD projectors, laptops, PCs, Wi-Fi, access to online libraries and webcasting

- E-learning laboratory, commerce laboratory and language laboratory
- Institution promotes teachers to attend skill development programme and short term courses
- Institution promotes interactions with professional and academic institutes to enhance skills of teachers and students
- Exposure to new teaching methodologies such as POGIL
- Proactive approach to research and FDP
- State of the art facilities in the laboratories to facilitate research and consultancy

For Non Teaching Staff:
- Institution encourages staff to acquire higher qualification. In the last four years, 04 of the non teaching staff acquired a graduation degree and 03 acquired a post graduation degree. The college reimburses the fees of such staff
- Office staff is encouraged to accompany on field trips/ study tours organized by various departments
- Software is updated regularly and on job training is provided to improve efficiency of administrative staff. The administrative staff was trained in the software for admission work and in Marathi typing
- Training for Digitization of library
- The institution had sent Chemistry non teaching staff to take training on the instruments at WRIC to improve their instrumentation skills
- Physics lab assistant attended workshop on solar energy conducted by MSME
- The college has deputed some non teaching staff of department of Biology to learn repairs and maintenance and field work

In addition to this, the laboratory staff is trained to make solutions, standardize equipments, make circuits, carry out minor repairs of equipment, collect and handle specimens. All the laboratory assistants are trained in stock checking and maintenance of inventories.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training retraining and motivating employees for the role of responsibility they perform.

The college adopts various strategies to empower its faculty. These strategies are twofold – one for the new recruits and the other for the existing staff.

The newly recruited staff is trained in the systems and practices of the institution through orientations, hands on training and formal / informal interactions in the departments. For example, the Examination Committee organizes an orientation for new recruits regarding invigilation, paper setting and evaluation, documentation and other related work.

Need based training programs are organized as and when new technology is incorporated into the existing system. (Refer to 6.3.1)

The college has always adopted strategies of motivating employees through transparent and impartial methods of functioning. Welfare schemes offered by the management for teaching and non teaching staff have been a motivating factor in the enhancement of performance of responsibilities.

- Felicitation of teachers on 5th September for their achievements motivates them to achieve greater success in future
- The college felicitates women employees on the occasion of International Women's Day
- The college magazine publishes the photographs of teachers and non teaching staff for their academic and other achievements
- The college has a policy of internal promotions of non teaching staff upon improvement of their qualification. One employee joined the college in class IV category and is currently a junior clerk in the administrative office after having completed his graduation
- Employment offered to a dependent kin on compassionate ground

Such positive gestures by the management act as motivators for the other employees.

6.3.3   Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

The college has evolved various systems to evaluate the performance of the staff and the multiple activities. The IQAC functions as a nodal centre for the collection and analysis of such information. Based on this analysis, the IQAC suggests methods of improvement. Some of the systems are as follows:

- Specifically designed forms for Performance Appraisal of Teachers by Students and for evaluating the college infrastructure
- Suggestion boxes at strategic locations for students
- Conducting regular academic, administrative and activity group audits
- Semester wise result analysis at the departmental level

6.3.4   What is the outcome of the review of the performance appraisal reports by the management and the major decision taken? How are they communicated to the appropriate stake holders?

The IQAC analyzes the appraisal reports and presents them to the Principal for further action. He in turn communicates this to the management as well as the staff members. Some of the decisions for appropriate action are taken by the Principal in consultation with the staff members while those that require major policy decisions / financial sanctions are discussed with the management during the CEC meetings.

The analysis of the performance appraisal of teachers is shared with the Principal who discusses it with the concerned departments.

Various committees have been formed for different facilities offered by the college. The feedback on the infrastructure is communicated by the IQAC to the concerned committee. For example, the students expressed the need for

more food items at subsidized rates. This was effectively handled by the canteen committee. A special request from the girl students regarding hygiene in the ladies washrooms resulted in the purchase of sanitary napkin disposers installed in all ladies washrooms including the staff common room.

The academic audits are opportunities for introspection and self evaluation by the departments. It has resulted in departments taking positive actions in the functioning of the departments. Tangible effects are seen in the form of grant of Star college scheme, increase in number of PhD centres and guides, the number of in-house departmental activities, industrial/field visits or study tours and introduction of skill based courses.

The college website was revamped and made more dynamic. A separate website for the library was created and linked to the college website.

Activity group audits led to the merger of several activities with similar objectives thereby streamlining them.

Similarly, the administrative audits impacted the admission procedure turning it into a queue less and hassle free online fee payment system. The audits revealed that the office was in need of more staff and appropriate action was taken.

6.3.5 **What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years.**

The college management has always had a benevolent and munificent approach towards the needs of the teaching and non teaching staff.
- Over draft facility is used to pay salary on time in the event of delay of salary grant from the Joint Director's office.
- Management reimburses tuition fees of wards of teaching and non teaching staff upto a maximum amount of Rs 6000/- per ward.
- Mediclaim policy for non teaching staff where in the management contributes 50% towards the premium amount
- Management arranges free or concessional medical checkup for teaching and non teaching staff.
- Management gives admission to the wards of the staff (teaching as well as non teaching) through management quota.
- Occasionally funds are collected and utilized to meet calamities.
- In case of any medical emergency, management gives money to the staff members.
- Non teaching staff is given flexible timing in case they are pursuing higher studies.
- In the event of untimely demise of an employee, one family member of staff is absorbed into the college payroll on compassionate grounds.

6.3.6 What are the measures taken by the institution for attracting and retaining eminent faculty?

The Institution has provided attractive research facilities such as Instrumentation Centre, Scientific Research Centre, Advanced Chemistry Laboratory, Testing Facilities and state of the art laboratories. Two persons have been appointed by the college in capacity of Adjunct Professors.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

Budgeting and optimum utilization of finance, including mobilization of resources are the issues considered under this key aspect. There are established procedures and processes for planning and allocation of financial resources. The institution has developed strategies for mobilizing resources and ensures transparency in financial management of the institution. The income and expenditure of the institution are subjected to regular internal and external audit.

The Institution adopts the following methods for ensuring effective and efficient utilization of available financial resources:
- Annual detailed Budget is prepared for Degree College and Junior College separately under various heads such as Library, Laboratory, Gymkhana, Salary, extra – curricular activities and Magazine.
- This budget is compiled in the month of February just before the commencement of the next financial year.
- The Budget is prepared on the basis of following information :
  - Financial Data received from various departments regarding the various expenses to be incurred in the next financial year and the revenue expected
  - Actual Financial statements of the immediately Preceding Financial year
  - Consultation with the Principal, Management and LMC.
- The Budget is deliberated in depth and approved at the LMC meeting in February. Minutes of LMC meeting (Ref: Annexure VI-B) and Budget (Ref: Annexure VI-C)
- Every year after the Audited financial statements are approved by the LMC, further exercise is carried out by LMC to compare the budgetary estimates with the actual data and the variances are analysed and reasons for the same are discussed in the LMC meeting so as to take corrective actions in the subsequent financial year. Comparative budget analysis (Ref: Annexure VI-D)

6.4.2   What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

The Institution has Internal Audit by an external agency A D Bhorkar and Co., Chartered Accountants, since inception of the college. The Auditors conduct Audit on 100% checking basis of all Payment Vouchers, Receipt Vouchers, Bills, Bank Reconciliations and Bank Statements. The institution has a system of Pre – Audit on concurrent basis by the Auditors, which results in a full proof system of checking and control for all payments and receipts. This system of Audit identifies the discrepancies which are rectified at the preliminary stage itself. There is no formal method of reporting the discrepancies or observations because the same are rectified instantly without which the payments are not effected. This method is followed by the Institution since its inception and has been proved and found to be very efficient and effective. The Auditors act as watch dogs for the institutional financial resources.

The Financial statements are audited on regular and timely basis. The Audited Financial statements are presented in the LMC meeting and the points with special reference to optimum utilization of the financial resources are discussed and deliberated and subsequently the Audited financial statements are adopted and approved in the meeting.

The latest Audited financial statement on record is for the Financial Year 2014-15. Copies of audited financial statements are enclosed. (Ref: Annexure VI-E)

6.4.3   What are the major sources of institutional receipts / funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund / corpus available with Institutions, if any.

The major sources of receipts or funding of the Institution are given below:
- Salary Grant received from State Government
- Grants received from UGC, DST-FIST, DBT-Star College Scheme
- Fees collected from Students
- Bank Interest on Deposits
- Miscellaneous Receipts like- Seminar fees, Sponsorship for Seminars or cultural activities
- Consultancy

The deficits are mainly on account of salary payments which are not under grant from the state government. The salary payment of temporary teachers which are pending approval do not receive grant from the state government hence this results in deficit.

The deficit is sourced from either of the sources:

- The surplus in self financing courses
- Grant from Kelkar Education Trust

The details of the deficit for past five years are given in the table below:

Sr.no	Financial year	Amount (Rs.)
1	2011-12	36,49,729
2	2012-13	28,84,516
3	2013-14	6,92,204
4	2014-15	17,10,889

- The total amount of Reserve Fund / corpus balance of the Institution as on 31st March, 2015 is Rs 6,07,09,765.48, which is entirely from Kelkar Education Trust and has been invested entirely in Fixed Assets of the college

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

In addition to the regular inflow of funds by way of Government Grants for salary and Fees collection from students as per State Government and Mumbai University guidelines, the Institution makes regular and continuous efforts to raise funds and financial resources.

Grants from UGC and other agencies and Administrative costs for projects /consultancy are as given below

SrNo	Financial year	Amount (Rs.)	Nature of Grant
1.	2012-13	19,22,000	UGC XI PLAN ASSISTANCE
2.	2013-14	14,95,471	Satyavathi Bioscience ltd & BioAmbar
3.	2014-15	1,02,00,000 + 11,00,000	CPE 3 grant+ Bio Ambar Grant

Utilization of Funds: Surplus is invested as Fixed Deposits in nationalized banks.
The Interest Income earned is utilized to meet expenses. The interest income earned is given below:

Sr.no	Financial year	Amount (Rs.)
1	2012-13	2,74,867
2	2013-14	3,28,815
3	2014-15	2,94,779

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)
a. **Has the Institution established an Internal Quality Assurance Cell (IQAC)? If yes, what is the institutional policy with regard to Quality Assurance and how has it contributed in Institutionalizing the quality assurance processes?**

Yes. The institution has an Internal Quality Assurance Cell constituted as per the NAAC guidelines.

IQAC has drawn up the Quality policy (Refer to 6.1.2) of the college based on the vision, mission, goals and objectives of the college. This policy is translated into a perspective plan.This plan is the basis on which annual plans are drawn and short term goals are set up. IQAC conducts regular meetings to institutionalize quality processes.

The IQAC looks into:
- Drawing up action plan to be undertaken
- Preparation of academic calendar and conducting of orientation programs for the entry level students of all faculties
- Initiation of the process and the system of compilation of data regarding the teaching learning process, research initiatives, departmental activities and activity groups
- Conducting academic, activity and administrative audits
- Conducting PATS and analyzing the feedback forms from students, parents and other stakeholders
- Disseminating information related to quality enhancement to faculty members through meetings, notices on staff notice board and websites
- Ensuring the maintenance of existing infrastructure and up-gradation of the same as per requirements
- Initiating processes such as office automation and website development

b. How many decisions of the IQAC have been approved by the management/ authorities for implementation and how many of them were actually implemented?

The IQAC makes suggestions to the Principal who approves them. Decisions related to finance are taken at the management level. Some of the suggestions implemented are:
- Office automation in a phased manner
- Setting up of commerce lab, language lab and e-learning lab
- Construction of additional floor
- Installation of solar lights in campus
- Project of recycling of coolants from distillation units
- Setting up of vermi-compost pit
- Upgrading of library facilities
- Setting up of a centre for the visually challenged
- Installation of CCTV cameras at strategic points in the college
- Suggestion boxes in the library for students grievances
- Series of lectures on autonomy were conducted in our quest towards full autonomy
- Workshop on disaster management

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

Yes. The IQAC has co-opted external members to ensure transparency and objective assessment of the institutional processes. Their advice, comments and suggestions are taken into account for institutional development. Dr Santosh Gharpure, Faculty of IITB and member of the IQAC suggested a review of undergraduate research and offered assistance to teachers for the use of research facilities at his institution. Mr. Hitesh Thakkar, another external member suggested the introduction of short term vocational courses. Both of them also emphasized the strengthening of the alumni interface and the building of a corpus fund through the alumni.

d. How do students and alumni contribute to the effective functioning of the IQAC?

The feedback received from the students helps the IQAC in drawing up and modifying quality policy. The students are represented in the IQAC by the General Secretary of Students' Council as an ex-officio member. Two alumni are also active members of IQAC.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

The composition of the IQAC includes representatives from different constituents of the institution. The regular meetings of the IQAC are a platform for the two way communication with the constituents. Special meetings for specific issues are held with the teaching, non teaching staff and students. For example, autonomy was discussed with the different stakeholders in such meetings. For some of the activities of the IQAC like audits and PATS, sub committees are appointed engaging staff from different constituents.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'Yes', give details on its operationalisation.

Yes the institution has an integrated framework for quality assurance of the academic and administrative activities.As ex-officio chairperson of IQAC, the Principal networks with management as well as staff through meetings. He co-ordinates with conveners of academic, sports, cultural and administrative committees. This ensures smooth conduct of different activities throughout the year.

The Vice Principal is a member of the IQAC. She contributes to the effective implementation of quality policy and institutional activities. They are assisted in this task by the HODs and the Registrar.

The college also has academic and administrative committees that are an integral part of the quality framework.

6.5.3 Does the institution provide training to its staff for effective implementation of Quality assurance procedures? If 'yes', give details enumerating its impact.

The college has identified internal audits, feedbacks from stakeholders, engaging younger staff members as members of committees as some of the quality assurance procedures. Need based training programmes are provided to the staff for effective implementation of quality assurance procedures.

IQAC provides guidelines for the academic, administrative and activity group audits. The outcomes of such guidelines are the standardized reporting and audit procedures, effective use of standard and scientific procedures for measuring SSI and PATS.

The continuity of quality legacy is another institutional goal. To accomplish this, Assistant Professors are inducted into various quality procedures to ensure smooth transition in the event of superannuation of senior teachers.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

Yes. Academic audit is conducted every year. In academic year 2015-16, we had two external academic audits – one as an IQAC initiative and the other by the University of Mumbai. The suggestions in the academic audit reports were noted and acted upon. The revamping of the college website and the appointments of additional staff in the administrative office are some of the outcomes.

Several LICs appointed by the University of Mumbai to sanction PG courses and research centers have visited the college in the last five years. Their suggestions have helped the departments to improve.

Various funding agencies like the UGC and DBT continue the grants on the basis of periodic reviews.

The AG office of the Government of Maharashtra has conducted audit of the college. JD office audit is shortly expected.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/ regulatory authorities?

The IQAC updates and realigns its quality assurance mechanisms with the requirements of external quality assurance agencies/ regulatory bodies. The IQAC takes note of the circulars/ notifications and information on the websites given by the quality assurance agencies such as NAAC and regulatory authorities such as AG office and UGC.

The college has UGC committee, Purchase Committee, Stock Inventory Committee, PATS committee, Academic Calendar Committee to align with quality assurance mechanism and the requirements of the external agencies.

The academic, administrative and activity groups audits on a regular basis is an important outcome.

6.5.6 **What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

- Academic calendar is prepared at the beginning of every year.
- Monthly HODs meetings review and report academic activities. The formal meetings are conducted by the Principal. The nominated secretary maintains the minutes of such meetings. The IQAC provides a booklet to the Heads which contains the proforma for monthly reporting. A copy of this is submitted in the meeting that goes to the IQAC. The other copy is retained by the Head. This helps the departments to compile data and provides consolidated information to the IQAC.
- The PATS is conducted annually by using random sampling method. The analysis of the feedback on different parameters is shared with the HODs and individual faculty. It is discussed at the departmental level and the strategies for improvement are drawn up. It has resulted in an increased awareness of the formal teaching learning parameters and subsequent improvements.

6.5.7 **How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?**
The institution adopts a transparent mechanism to communicate its quality assurance policy, mechanisms and outcomes to the various internal and external stakeholders.
- The management staff get-together on the occasion of Foundation Day on 20th June is the annual feature of the college. The Principal, Vice Principals review the college performance of the previous year and management outlines the future plans which are in tune with the quality policy.
- Regular CEC and LMC meetings
- Regular interactions between the Principal and the teaching and non-teaching staff
- Annual orientation program for students
- Parent – Teacher meetings
- Display of important notices, circulars and relevant information on the notice boards, electronic display screen, website and through the use of group SMSs.
- College prospectus and the annual magazine also give important information regarding vision, mission, objectives of the institution, messages from the Principal, activity group reports, departmental reports and results, academic, cultural and sports achievements of students and staff.

Any other relevant information regarding Governance Leadership and Management which the college would like to include.

High level of satisfaction and high degree of retention of the staff members is the true measure of the inspiring leadership provided by the management and an indicator of good governance.

CRITERIAVII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the institute conduct a green audit of its campus and facilities?

Yes, the institution does conduct a green audit of its campus with the help of faculty of Biotechnology, Environmental Studies, Botany, Zoology and student volunteers of NSS and Students' Council and PGDPCM.

Survey Audit has been started in the college w.e.f. September 2016. Suggestions and recommendations of external auditor will be taken into account.

Green audit of the college campus by the Agency, will be conducted by external auditors in the month of February / March 2017.

- **Green Audit of the college includes:**
    1. Collection of Documentation
    2. Identification & Implementation of Management Program
    3. Actual Audit
    4. Report Generation with Recommendations

- **Various audit tools used are-**
    1. Documentation and Control of documents
    2. Review of resources
    3. Roles, Responsibilities and Accountability distribution
    3. Communication, Training and awareness
    4. Records
    5. Site visits
    6. Monitoring

- **Green Audit to be done by External Agency includes following heads-**
    1. Soil conservation Initiatives
    2. Waste segregation
    3. Organic waste treatment
    4. Water conservation strategies
    5. Biodiversity conservation
    6. Plantation programs
    7. Energy conservation and Use of Renewable energy (solar energy)
    8. Cleanliness drives
    9. Awareness programs for students, staff members and the society
    10. Nature trails
    11. Recycling programs
    12. Compliance with the legal requirements

The college has formed Internal Green Audit Committee is made of Teaching staff members from the departments of Biotechnology, Environmental Studies, Botany, Zoology and Economics, Non-teaching staff

members and Student volunteers of Departments of PGDPCM, Biotechnology, Environmental Studies, Botany, Zoology and Economics, NSS and Students' Council.

Internal Green Audit Committee monitors various environmental concerns of the college.

7.1.2   What are the initiatives taken by the college to make the campus eco-friendly?
   ★ **Energy conservation**
   ★ **Use of renewable energy**
   ★ **Water harvesting**
   ★ **Check dam construction**
   ★ **Efforts for Carbon neutrality**
   ★ **Plantation**
   ★ **Hazardous waste management**
   ★ **E-waste Management**

Initiatives towards making the campus eco-friendly were taken by the Founder Chairman of KET, Late Shri G D Kelkar from the inception of the college.

∗Energy conservation
Electricity conservation:
- The college building has large airy classrooms, with maximum utilization of natural light and cross ventilation. This reduces the need for fans and lights during most of the year and also minimizes the use of air conditioners which in turn reduces electricity consumption.
- Teachers, students and non-teaching staff regularly ensure that lights and fans are switched off when not needed.
- The Save Electricity campaign is an ongoing activity in the college.Posters with slogans to save energy are displayed near the switchboards in the classrooms and in other prominent places in the college.
- Regular maintenance of electrical equipments is done to minimize unnecessary consumption of electricity. A non teaching staff has been assigned for this. Repairs are carried out and replacements are made whenever required.
- The college is replacing the tubelights and bulbs with LED lights in a phased manner.
- An electricity audit is conducted annually by MSEDCL. The last audit was conducted on 7th March 2016. The Electricity Board gives the college a discount of Rs 11,000/- because of minimal electricity wastage.

Water Conservation:
- Specific Water Conservation activities are initiated as below:
- Student volunteers are divided into groups to carry out water audit
- Taps are labeled and regularly checked for leakages
- The College Registrar is informed of any leakages and repair works are carried out
- Posters on water conservation are on display
Exhibits on energy and water conservation are displayed during exhibitions

organized. This helps is sensitizing the students to the need for conservation and builds up an eco sensitive personality.

∗Use of renewable energy
- A solar powered flood light has been installed covering the entire college ground. This has helped increase the security of the college premises without incurring a very high cost
- The process of installation of solar panels through the net metering facility of MSEDCL and stand alone solar lights in the college campus has been initiated

∗Water harvesting:
Several measures have been put in place for water harvesting:
- Tank with a capacity of 10,000 liters has been set up to collect the waste water from all the laboratories for irrigation of plants
- Geographical locator has identified bore-well location for water harvesting and permission for development from BMC is awaited. When the bore-well is ready, BMC water will be used only for drinking and ground water for other purposes such as garden and toilets. This will substantially reduce the demand for water by the college from the BMC, and help the college reduce water consumption and resources
- At a micro level- water is being conserved regularly. Used water from the micro biology department of SRC – is treated in the college premises by a Pollution Control Board. The treated water is certified by the BMC before disposal. This helps in environment conservation and checks pollution. Such a treatment facility is unique to our college and is a first in Mumbai

∗Check dam construction:
- Check dams have been constructed by the College NSS unit in the adopted villages. Bendshil village, Chiknyachi wadi, Talwadi, Chaphyachi wadi and Deolyachi wadi in Ambernath taluka, and Pivali village in Shahapur taluka are the beneficiaries.

∗Efforts for Carbon neutrality:
Carbon neutrality is a priority in the college. All the appliances including ACs are compliant with the current norms of environment conservation. Additionally, following steps are initiated to reduce the carbon footprint of the college:
- The college has taken lead in collaboration with ACC, a renowned cement company for algal CO_2 sequestration. National Council for Cement and Building Material (NCCBM) generously funded the construction of a laboratory scale 100liters tubular photobioreactor, to culture the algal strains that can be fed with industrial gases
- To make the process cost effective, in 2014-15 an indigenous algal strain that could utilize hyper-saline water and withstand outdoor temperature upto 35˚C were isolated. The project of constructing a cost effective photobioreactor of 2000 liters has been short listed by DBT
- Research in Green Chemistry is carried out either without the use of solvents or with the use of eco friendly solvents
- The college has always been using CFC free electrical gadgets such as refrigerators and 5 star rated ACs. This is one of the many ways of

contributing to the elimination of the emission of Chlorofluoro carbon. This reduces electricity consumption and carbon footprints

Academic efforts towards environment sensitization:
Through research and classroom teaching, the college has contributed towards environmental sensitization.

- A teacher has original research contributing to the development of environmentally useful products. She has two patents to her name
  - "Water Soluble /Collapsible Paper Bags" , Patent Published on 21/11/2014 in The Patent Office Journal 21/11/2014; Page No: 11189; International Classification No: B65D 30/00
  - "Green Garbage Solution" , Patent Published on 05/06/2015 in The Patent Office Journal 05/06/2015; Page No: 38084; International Classification No: C11 B9/00
- The faculty members are advisers and consultants for projects under DBT and DST. Projects from Manipur, Assam, Rajasthan, Haryana, Punjab and Vishakhapatnam are in various stages of implementation and procurement.
- Project based teaching-learning of environmental consciousness is an integral part of the Foundation Course syllabus. Environment Studies is a compulsory course for the BCom students. Environmental Science is an applied component at TYBSc level. Extra efforts are taken to teach these subjects so that students develop sensitivity towards environmental issues.

Recycling of waste:
- Innovative Recycling of waste is a regular feature in the college.
- During the college festival 'Dimensions' and on the occasion of other cultural celebrations 'Art out of Waste' products-bags, pen-stands, decorative boxes etc. made by students are on sale.
- Students led a drive of collecting old notebooks with unused blank pages and prepared new books from them. This eco friendly project also had a noble outcome: the notebooks thus prepared were distributed among the needy children at '*Divya Prabha*' Ashram in Thane.
- Eight volunteers were trained in making paper bags out of used newspaper by 'World Merit'- a UNO sponsored NGO. These volunteers trained others and made over 100 paper bags. These bags were used for storage and to collect dry waste for disposal. The bags were also distributed to medical stores and retail shops to discourage use of plastic bags. In the college, paper bags are used as carry bags for saplings given as gifts to guests, thereby replacing the plastic bags totally.
- The college has a state of the art vermi-composting pit for canteen garbage and dry and wet leaf biomass. Canteen garbage is segregated into bio degradable and non degradable waste. The manure generated is used for the maintenance of the garden in the college campus. This leaves the college campus clean and also saves cost of maintenance.

Efforts by college administration:
- **Examination Committee:**
  - The examination committee has started and successfully implemented Paper less question paper submission. Around 300 question papers are set every year for all the various examinations conducted through the

year. By eliminating hard copy submissions, the college has successfully reduced paper usage substantially. This is a big step in environmental conservation. All the examination related notices for students are posted on the college website.

- There has been a substantial increase of e-notices and e-reporting of all activities across the board, by faculty, departments, office and students. The use of WhatsApp, sms and email for communication with all stake holders has witnessed a phenomenal increase, resulting in quicker and more efficient dissemination of information along with an ever watchful eye on the environment.
- The admission process is totally on an online platform and fees are paid online. The admission process has become efficient and effective and many man days are now saved

- **Dimensions,the annual Intercollegiate festival:**
  Dimensions, upholds eco-friendly practices such as-
  - Recycling of flex boards
  - Arranging craft workshops on Best out of Waste
  - Making Installation Art out of plastic and paper waste
  - By using recycled paper bags
  - By celebrating the theme- "Best Out Of The Waste"
  - By helping to keep Mulund railway station clean
  - By emphasizing on waste management during the festival
  - Ensuring healthy housekeeping practices

- **Decrease in the use of paper:**
  - E-Books by some facultyhave been uploaded and students are given links for access
  - Additionally, teachers encourage the use of smart phones and i-Pads and other e- notebooks for reading texts in the class, as teaching aids, just as they use Google scholar, OWL and MOOCs as teaching supplements
  - To attempt paperless evaluation, E-submission of practice assignment and answers has been adopted
  - Many teachers encourage the use of Google docs. This encourages independent learning. Students manage their time well, classrooms extend beyond the boundary of the college and students are free for independent study at their own pace with support from their teachers. Deforestation activities are also reduced.
  - Teachers encourage students to make PPT based presentations in class, thus reducing the use of paper and make students technology savvy a much needed trait in today's society

∗**Plantation:**
- Tree plantation to enhance the green cover of the college :
  - Weeding of unwanted growth along the divider on the 90 feet road in front of the college campus was carried out.

- Additionally, the soil was prepared for plantation with help of 70 student volunteers and the NGO "Mee - Mulundkar".
- Thereafter, 70 student volunteers planted 200 saplings in the road divider. Volunteers since then regularly maintain it.
- Plantation of trees in the college campus is a regular activity for the NSS unit every year.
- Additionally, regular beautification of the college campus is carried out by planting flowering plants and maintaining them regularly.
- The college nurtures plants in two facilities:
- Green house and Shade house
- Saplings prepared in the college nursery are used to felicitate guests and college achievers as part of promoting environment awareness.

- The growing of potted plants, ornamental plants and medicinal plants provide green cover, shade and oxygen. This also provides educational support to students and is home to varieties of birds, and butterflies, making learning application oriented. A sophisticated vertical garden at the entrance showcases our garden beautifully. Thus, teaching-learning is enhanced meaningfully.
- Tree plantation in the vicinity: Every 15th August,tree plantation is undertaken in association with an NGO, *Hariyali* that works with forestation and green coverin and around Mumbai and Thane districts.125 saplings were planted last year.

∗**Hazardous waste management**
- Paper, plastic, old glassware are disposed of by selling to scrap dealing agencies that in turn recycle it
- Green chemistry practices are taught in class and practiced in laboratories to reduce environmental pollution.Chemistry experiments are carried out in micro /semi micro scale to reduce the release of pollutants. Strong chemicals are neutralizedbefore disposal
- Courses in FC and EVS are replete with modules and chapters on how to reduce and control environmental pollution
- Biological waste is treated before disposal thereby not harming the environment
- The Zoology Department disposes dissected animals immediately to avoid putrefactions
- In the Cosmetology laboratory waste is managed effectively:
  The chemical waste of creams, lotions and perfumes is first collected in disposable bags. The collected chemical waste is sent to the incinerators of the BMC garbage disposal department which burns the waste electrically at a very high temperature so that carbon is completely burnt and no fumes are released in the environment.
  This method of chemical waste disposal helps in reduction of chemicals in water bodies, thereby protecting marine life.
- The Advanced Chemistry Laboratory waste is handled effectively:
- Small quantities of waste acid and base chemicals less than 50g are neutralized and discarded
  - Bigger quantities of more hazardous waste chemicals are handed over to the safety department of the SHKelkar Company for waste

management
- Small quantities of waste such as Sodium, Sodium Hydride are carefully decomposed by treatment with Methanol. Sodium Methoxide thus formed is neutralized with acid and discarded
- Solvents recovered from the reactions are distilled and reused

✳**E-waste Management**
- Non functional computers and peripherals are repaired and reused
- Old versions of computers are given to who so ever has a good use of them
- Irreparable ones disposed offthrough an agency which in turn disposes it off by strictly following the norms

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

Within the framework of the University affiliated system, the different departments in the college and the faculty have initiated various innovative practices to make the curriculum more effective, relevant and learner friendly. Several administrative measures have been taken over this period, to support the new developments being made in the college.

- **Infrastructure:**
    - Library: Old wooden furniture in the library has been remodeled to accommodate new and enhanced storage units and create space for the E-Resources Section and Section for the Visually Challenged.
    - Foyer: The digital display screen in the foyer is used to transmit and disseminate welcome messages, greetings and important information.
    - G D Kelkar Skill Development Centre: The College has developed a Skill-development Centre with three fully equipped laboratories:
        - ★ Language Lab and GD room: The Language lab has 10+1 computers equipped with ORELL Digital Language laboratory software. The advanced software has five interfaces: administrator, instructor, student, parent and management. This enables a 360 degree monitoring of learning by all the stakeholders. The lab focuses on the development of the four skills – listening, speaking, reading and writing. Its advanced technical features help the teacher customize learning according to learner needs, pace it suitably and monitor it regularly.
        - ★ Commerce lab is equipped with a smart TV which is used to conduct live training sessions.
        - ★ E Learning lab is used for training, using online facilities.
        - ★ Mini auditorium equipped with a smart TV

New Practices

- **Administrative:**
  - The College website is used extensively for all announcements
  - Parent-Teacher Interface: Regular PTA meetings are organized each semester by some departments for feedback about wards. This face to face communication helps parents get regular updates regarding their progress
  - RFID card has been issued to all staff and students
  - The authorities are concerned and careful about maintaining safety standards. The laboratories and the canteen use MGL piped gas connection. There are fire extinguishers on every floor
  - Waste is segregated at the college level, in different colored dustbins. Canteen waste is segregated and wet waste is used for vermi-composting. The manure is used in the college gardens
  - Annual audits for administration, departments and activity groups are carried out. Suggestions received from the external auditors are implemented and reviewed

- **Academic:**
  - College website provides easy access to examination question papers of past years.
  - The college has adopted the practice of in-house printing of papers
  - The college has got the Star college grant to enhance science teaching at the undergraduate level. This is to inculcate and encourage innovative practices during practicals and strengthen scientific temper among undergraduate students
  - Use of Web 2.0 tools such as Google drive for shared and connected classroom is a regular feature. This enables students to work in their own space and time thereby providing a 24x7 classroom environment
  - E-notes, e-assignments, are used extensively across departments where a large quantum of writing is involved such as History, English and MCom
  - Extensive use is made of the INFLIBNET by teachers, researchers and students alike

- **Student Support:**
  - Some departments have a WhatsApp group of former teachers and alumni along with current teachers for sharing information on recent developments in the subject, news, employment opportunities and guest lectures
  - Physics teachers have donated Rs 40,000/- to the college to institute three prizes to meritorious students of Physics at the FY, SY and TY levels
  - DrLinaThatte faculty in the department of Economics has, on superannuation, donated an amount of Rs 50,000/- as an Endowment fund for instituting scholarships for the students of Economics students
  - The Commerce alumni of 1993 batch have donated an amount of Rs. 11,000/- as an Endowment fund for instituting scholarships for needy and deserving students of the Commerce faculty

- **Application Oriented teaching-learning:**
  - The syllabus is determined by the university. It is given a practical edge by exposing the students to actual practices in government, industry and other institutions and agencies to broaden their outlook and enhance their skills in the different courses that they are studying
  - Commerce students of the aided and self financing courses are taken to prominent industries and given live demonstrations of industrial best practices
  - History is brought alive by visits to historical sites
  - Technical sophistication of the research institutions inculcates a research mindset in students visiting them
  - Literature festivals make it possible for students to meet authors and understand the creative process through participation in various workshops

- **Introduction of skill oriented courses:**
  - Projects are assigned to MSc part II students in different Industries, institutes and research centers like IIT Bombay, Saha Institute and NIUS. They are involved in skill oriented courses in Central University Hyderabad and IISc Bangalore. Students have completed projects from IISER Mohali, TIFR, IUCAA and BARC
  - Short term programs for orientation to best practices in industries are conducted by Laboratory for Advanced and Synthetic Chemistry
  - Regular hands-on training programs are also held for students, entrepreneurs, teachers by industry persons in techniques on plant tissue culture, Molecular Biotechnology Techniques like RAPD Analysis and DNA sequencing, Bioreactor technology, Algal Biotechnology and Greenhouse Technology
  - The college has also taken several initiatives to conduct Teaching/ Non teaching enhancement workshops like POGIL, Unicode, Library workshop to name a few
  - Workshop on effective administration, communication skills, personality development and quality enhancement in administration for the Non Teaching staff

- **Research and Publication**
  - Three new Research Centers have come up during the past five years, English, History and Physics. PhD guides in the departments have about 20 students currently doing research with them
  - The department of Physics has applied for a research center for PhD and sanction is awaited
  - Academic Journals published in the last five years :
  - Vaze Vistas: A multidisciplinary research journal is published to provide a platform for in house researchers
  - "Vaze Chemica" is an in-house departmental magazine is also published by the chemistry department

- Conference Proceedings: Papers presented in the various conferences organized - Child Labour, Commemorating 100 years of World War Iand Ease of Doing Business have been published after peer review in reputed national and international journals
- Avishkar: Teachers and students participate in the University Research Competition. Teachers guide research students so as to facilitate research temperament. Students are encouraged to participate in groups to facilitate group learning and enhance team spirit
- Research Promotion Committee and Staff Colloquium: In order to ensure research orientation and sharing of ideas Research Scholar Meets are organized on a regular basis by the PG and PhD centers viz. History, English, Economics, Zoology, Botany, Biotech, IT and Chemistry departments. Scholars make presentations on their work, discuss findings share problems, and seek solutions. Teachers share their research presentations, which is followed by avid discussions, which ensure inter disciplinary thinking on various research topics

7.3 Best Practices

Other than the two Best Practices reported in details below, Vaze College follows certain Best Practices in key areas of college life.

- **Skill development:**

Since inception, the college has been going beyond the curriculum by conducting Bridge courses for developing students' skills. The Chemistry, Economics and Physics departments conduct Bridge courses for the Second year students during the May vacation, to prepare them for the Third Year Course. Other departments such as History and English conduct short term courses that enable the students to learn skills that will help them for the PG, hone their research skills or lead to supplement income. Some of the courses conducted are Quantitative Techniques, Plant and Animal Tissue Culture, Algal Biotechnology, English Proficiency, Research Methodology, and *Modi Lipi*.

These courses have been popular and benefitted students and the community in the neighborhood.

The GOI announced its policy of 'Kaushal Bharat; Kushal Bharat' in 2015 with an emphasis on skill development for employability. In line with this policy and to make a meaningful contribution towards national development, in 2016, the College Management has set up the G D Kelkar Skill Development Centre and Finishing School. The focus of this centre is to make available a variety of skills for students of all faculties. With the establishment of commerce lab, the language lab, E-learning lab and Vaze Vision: the Centre for Visually challenged, new courses were launched for students of various faculties. Under the banner of the Centre, six new courses have been started: Financial Skills Development, Basic Tally Operations, Angular JS, German, English Language Enhancement Course, *Saral* Hindi, Positive Psychology, Stress Management and Effective Study Habits, Algal Biotechnology course, Advanced Diploma in Fashion Designing and Interior Designing are run at the Centre. All previously successfully conducted courses were brought under this

banner.

Through the Skill Development Centre, many advantages are ensuing to the students: The students get access to

- Quality courses at reasonable fees
- Multiple courses on campus, without travel-stress
- Certification from well recognized authorities, such as Max Mueller Bhavan
- Latest technology
- Business trends and practices
- Job oriented approach
- Foreign language
- Language skills
- Live simulations through the courses
- Exposure to online curricula and course material handling

Informally, students develop their skills in many ways while conducting activities. They acquire organizational skills, leadership skills, people skills, verbal and non-verbal skills, and financial skills like budgeting and money management. They also learn some specific skills of event management: video shooting and photography, make-up, decoration, setting up the stage, mikes, sound systems and audio-visual equipment. This has a long term effect on their career paths. For example, BMM and other department alumni have also become well known RJs, stylists, choreographers, assistant directors and parts of production units in the last five years.

- **Increased Number of Voluntary Field Visits:**

Field visits have increased manifold in the last five years: even departments in which they are not mandatory as per the syllabus conduct field visits to add to the teaching learning facilities of the students. The Departments of English, History, Sociology, Psychology, Commerce, Physics and Political science students are taken to relevant institutions like Libraries, places of historical interest, Monuments, Research Institutions, Factories, NGOs, special schools, Rehabilitation centers, Jails and other such places like the Stock Exchange and the Assembly, and events like Literary Festivals, Film Festivals, Theatres where they are exposed to latest trends, government and industry practices. During some of these visits students

  - are exposed to the working of various institutions, NGOs
  - come across passionate and committed people
  - learn about challenges and issues faced
  - acquire hands-on exposure which makes their curricular learning more relevant
  - undergo practical observation which makes the subject more interesting

- **Extra-curricular activities:**
  - Extracurricular activities like the Gymkhana have taken the students' non-academic performance to new heights by actively nurturing games and sports talent. In the five years since 2012, three Shiv Chhatrapatiawards, have been won by Vaze College students.

- 'Vithee' has continued with their in-house productions and won many accolades for the college, whereas the English Literary Association has for the last five years started their drama Festival as an annual event. They have been invited by the Rotary Club of Thane Uptown to perform at the Kashinath Ghanekar auditorium in 2016
- The students of the BMM department are getting hands on experience in all departments related to culture: publication, advertising and public relations
- In year 2015, the use of Drone photography and an exclusive DJ made a lot of difference to the look and feel of the event. From the past three years, a Flash mob is used for publicizing Dimensions in major malls in the city. This has created a good impression among the student community, resulting in good representation, increased participation and healthy competition
- The participation and prize haul at the University Youth Festivals have increased, and in 2016, the college has been a host of the Youth Festival for the zone

- **Institutional Social Responsibility:**

The college offers 33 different categories of scholarships, some of which are endowments by philanthropists associated with the college in some way. This benefits students across streams, subjects, income levels and aptitudes.

Through the Student Mutual Aid Fund, there are free accesses to books and study material for needy students. The College has an SMAF run Book Bank Scheme for the economically backward & needy students. The students are provided a set of textbooks for the year which are to be returned immediately on completion of the semester end examination or final examination, as applicable. In year 2015 alone, 150 book sets have been given to students.

In the Chemistry Department experiments involving Flame Photometer, expensive equipment for T.Y. B. Sc class, are conducted in Vaze College laboratory for students of the neighboring V.P.M. college.

Institutional Social Responsibility is being discharged so as to empower the students and teachers of Phondaghat Education Society's Arts and Commerce College, Phondaghat taluka, Kankavali, Dist Sindhudurg. Vaze College believes in the policy of equitable distribution of knowledge, hence it has reached out to this college in Phondaghat. Collective expertise of Vaze Teachers and students will be used to enhance the knowledge and also widen the horizons of the students' minds at 'Phondaghat' College.

7.3.1 **Elaborate on any two best practices in the given format at page no.98, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.**

<u>**Practice 1**</u>
1. **Title of the Practice:**
   'Certificate Course in Perfumery Analysis for the Visually Challenged and Vaze Vision – Centre of E-Resources for the Visually Challenged'

2. **Goal:**
When one of the senses of an individual does not work well his other senses can be enhanced for quality living. The certificate course was introduced to help the visually challenged from the lower income group to become professionally groomed, get placement in the perfumery industry and lead a better life.

While conducting the course, the management realized that conventional resources are inadequate for these learners and hence, Vaze Vision was established.

3. **The Context:**
The certificate course was started in collaboration with College of Fragrance for Visually Impaired (COFVI) - CPL Aromas and Blind People's Association (BPA), Mumbai. The learners are identified from BPA and are selected for the course on the basis of an olfactory test administered.
Vaze Vision has been developed with the help of Advanced Technology Blind Student's Learning Centre, Department of Education and Extension, University of Pune, NAB - National Association for the Blind, Mumbai and BPA.

This centre has three computers (with headphones) installed with dedicated screen reader - NVDA (Non Visual Desktop Access) which is a free screen reader that also provides global speech support to the computer system. The screen reader or audio software assists learners to use computers for accessing online resources as well as specially designed audio books and e-books. Although the focus is primarily on enabling access to e-resources, it has also been equipped with a few books in Braille. Building the collection of audio books, e-books and audio CDs as per requirements is in progress.

4. **The Practice:**
This course is offered free of cost to the learners by the college. The learners are not charged for the fragrance kits, Braille books and other raw materials. They are trained in raw material, fragrance and finished product evaluation. They are exposed to more than 200 fragrance raw materials thereby enhancing their olfactory perception. They are also trained in computer systems, official correspondence and use of the web to augment their employability. The learning is not only limited to technical and communication skills but is also extended to personal grooming and personality enhancement through training on personality development.

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- **Vaze Vision – Centre of E-Resources for the Visually Challenged** is an outcome of Certificate course in Perfumery Analysis for the Visually Challenged.
- The infrastructure and resources are funded through a CSR grant from S.H. Kelkar& Co. Pvt. Ltd.
- Provision of reimbursement of hostel fees, if necessary for the needy

5. **Evidence of Success:**
- Learners from all batches are successfully recruited in the Industry
- Many of them have completed their probation and are permanently employed, earning up to Rs.25000 per month
- The learners are given an orientation and they are able to use the resources of Vaze Vision

6. **Problems Encountered and Resources Required:**
A) **Problems Encountered**
  - Lack of monetary support in the initial phase but the burden was born by the management.
  - Dearth of proper trained staff
  - Most of the industries are reluctant to recruit the visually challenged
B) **Resources Required**
  - A separate classroom
  - A specially designed lab
  - Support in the form of food and clothes

7. **Notes:**

Future plans:
More skill oriented courses to be designed and implemented for the students with other disabilities so as to make them self reliant and employable.

8. **Contact Details:**

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Practice 2

1. Title of the Practice:

Research: The Differentiator with the focus on social welfare

2. Goal:
- To establish Vaze College as a front runner in research and a knowledge hubacross specialties with state of the art laboratories, facilities and libraries so as to attract talent for research and to retain and provide encouragement to the in- house talent
- To undertake sociallyas well as commerciallyrelevant research projects
- To transfer research from Lab to Land
- To establish linkages for Backward and Forward integration
- To establish linkages with industry and Institutes of National importance and create infinite opportunities for the students and teachers in their pursuit of knowledge/ quest for the unknown.

3. The Context:
The founder Chairman of the Kelkar Education Trust, late Shri G D alias Bhausaheb Kelkar was himself an active researcher and was conscious of the global research scenario. He visualized the dream of making Vaze College a Centre of Advanced Research ultimately developing into a premier autonomous institute.

Late Shri Bhausaheb Kelkar was a visionary and a social reformer. He realized the need to preserve, protect and propagate aromatic and medicinal plants. He dreamt of using science and technology for betterment of mankind. 'Lab to Land' was his mission. To achieve the set goals, he invested in the state of the art laboratories and in human resources. He educated farmers by providing valuable inputs to ensure consistent output and topped it up with an assured buyback.

In this context,
- Scientific Research Centre (SRC)was established in 1991 as a special purpose vehicle for research in the emerging areas of Biotechnology and Cosmetology so as to realize his dream of social responsibility. Today, SRC carries impeccable credentials like approval from Department of Science and Industrial Research (DSIR), recognition by FDA and rating by CRISIL
- Advanced Research Laboratory for Natural and Synthetic Chemistry was established to synthesis and develop new agents which were effective against various diseases
- Additional laboratories and facilities were established through the grants under schemes like UGC – BSR, CPE, DST -FIST, DBT - Star scheme for promotion of research at UG level
- Perfumery and Cosmetology laboratories were built to develop formulations for small industries

209

- Industry linkages and collaborations established over the years
- Instrumentation Centre developed
- Laboratory for research in Physics-material science is being developed

4. The Practice:

Once the facilities were established, various socially relevant projects were undertaken. Research studies or surveys benefiting the community or improving the services have been the focus.

SRC, Advanced Chemistry Lab and Perfumery and Cosmetology department take up socially relevant projects and such other projects where contribution to the growth of industries can be through the original research or through improvement in the processes.

Special efforts are made for forward integration by encouraging researchers from other institutions to carry out their research work and to get exposure to new technology. The laboratories and in house expertise is made available to them.

Backward Integration: The researchers invite and guide students from neighboring schools. This is an attempt to ignite young minds and kindle their quest for knowledge. The school teachers too are invited to the college laboratories/ library so that they can motivate and guide young students.

Research Promotion and Staff Colloquium Committee is set up to propagate and promote research activities of the staff and students and to extend the research culture to all the specialties.

For developing entrepreneurial skills and creating opportunities for small industries, short term courses in Research Methodology, PTC, ATC, Molecular Biology, Algal Biotechnology, Mushroom Cultivation and *Modi Lipi* are conducted.
All these courses contain a module of Entrepreneur Development

Students are trained in primary and secondary data collection and in preparation of survey reports by Vaze Research Group.

Students conduct surveys on socially relevant issues under the banner of NSS. Students are encouraged toenroll for summer training programs.

Research Scholars' Meets are organized periodically where the researchers present a progress report and suggestions from experts help the research scholars to improvise the approach to research.

Study tours are organized for experiential learning and for students to widen their knowledge horizons.

Exhibitions are organized in the college and are open for students of neighboring schools.

5 Evidence of Success:

- SRC implemented a demonstration project on patchouli cultivation. Using Tissue culture technique,SRC derived elite variety of patchouli. Patchouli an herbaceous plant is a source of essential oil which acts as a base in perfumery industry due to its fixative property. It has been observed /demonstrated that Western Coast of Indiahas the necessary agro-climatic conditions to grow this plant.With a view to popularize the crop amongst the farmer community, agro-techniques have been standardized for Gujrat, Konkan and Karnataka coastal regions.
More than 1000 farmers cultivated the crop with net earnings of Rs30,000 per acre

- SRC is also assisting in the cultivation of aromatic plants in the Dhar region of Punjab in collaboration with Punjab University. Dhar block of district Gurdaspur, in Kandi area of Punjab, is primarily rain-fed It has small land holdings, undulating topography and problems of soil erosion, lack of soil moisture, low fertility, frequent attack of stray animals on cultivated land because of natural pastures having been infested with Lantana weed. Hence, the returns from agriculture are meagre. Per capita income in Gurdaspur district is, in fact, the lowest amongst all districts. In view of this, farmers of Dhar block had urged Ministry of Science & Technology, Govt. of India to suggest technology interventions for socio-economic development of the area. Hence Department of Biotechnology, Govt. of India planned to initiate an end-to-end demonstration project in farmers' fields to demonstrate the feasibility of cultivation of selected aromatic crops in this block.

  Punjab State Council for Science and Technology (PSCST) had the experience of successfully implementing DBT supported project for promoting cultivation & processing of medicinal & aromatic plants in Talwara block of Kandi area.
  As SRC also had successfully implemented DBT supported project for promoting cultivation and processing of medicinal and aromatic plants in nearby Talwara block, PSCST invited SRC to join hands with them.

  DBT invited Council to take up the said project **in collaboration with Scientific Research Centre**.

- SRC has standardized protocols for cultivation and post-harvest processing of various aromatic crops and have demonstrated the same in various parts of the country. DBT-GOI provided project formulation budget and has also sanctioned the project at a total cost of Rs.143.83 lacs for 4 years duration. The project involved standardization of agro technologies under local conditions for five aromatic crops viz. Lemon grass (Cymbopogon flexuosus), Citronella (Cymbopogon winterianus), Palmarosa (Cymbopogon martini), Patchouli (Pogostemon cablin) and Geranium (Pelargonium graveolens); demonstration on 50 acres at

farmers' fields, capacity building of farmers, setting up two distillation units for value addition through extraction of essential oil and arranging marketing tie-ups for its buy-back through Unati and Keva Biotech

- Researchers in the Advanced Research Laboratory for Natural and Synthetic Chemistry have successfully developed anti-malarial and anti-HIV agents. Anti-diabetic activities are also established
- Formulations are also done for drug and chemical industries
- Department of Botany carried out **carbon dioxide sequestration** using micro algae in collaboration with ICT DBT center for energy bio-fuels
- Worked for ex situ conservation of highly endemic tree species of Western Ghats of India, Garcinia, in collaboration with *Kokan Krishi Vidyapeeth* and National Bureau for plant genomic resource, New Delhi
- Screening of thermo-tolerant marine micro-algal strain for large scale cultivation in tropical climatic conditions
- Same thermo-tolerant organism has been shortlisted for cost effective mass scale production
- UV protective studies and carotenoid evaluation from saline microalgae conducted with ICT
- Research studies or survey benefiting the community: a) Survey of hyper-saline cynobacteria from the salt pans from Mulund to Vikroli was first of its kind.Resulting biomass is utilized as bio-fuel. b) Surveys by VRG and NSS volunteers
- Surveys by students for green audit
- Original research contributing to product improvement: A cost effective lab scale photo-bioreactor suitable to Indian climatic conditions was developed for CO_2 sequestration
- Many formulations are developed for small scale cosmetic and perfumery industries
- Bioremediation of Thane Lakes was undertaken and it is an ongoing project
- *Modi Lipi* course for members of the public

Success of the practice can also be measured on following criteria
- Research awards are won by the teachers and students and they are reckoned as experts in the field
- Three new Research centres established, teachers have registered for PhD and some have been awarded the degree
- Increased participation of students in research competitions like '*Avishkar*'
- Increased participation of teachers in Conferences and Seminars
- In last four years more than 20 PhD students, about 33 MSc/ MTech students, 2 students under international exchange program and 5MD Ayurveda students from other colleges have used the facilities in the college
- Collaborative research projects with National Institute of Immunology, New Delhi, University of Delhi, Tata Memorial centre for Advances Treatment, Research and Education,Entomology Division, National Chemical Laboratory, Satyavathy Biolife, BioAmber, INC, USA, S. H. Kelkar and Company and many other industries

- Many teachers have presented collaborative papers in national and international conferences
- Patents have been filed
- Research inputs contributing to new initiatives and social development (Ref 3.4.1 for details)

The success of the practice is evident from the illustrations above.

6. Problems Encountered and Resources Required

Two main constraints and hence the problems, are shortage of space and funds.

There is potential in all the teachers to expand the research horizons but space is the main constraint. Augmentation of demarcated space for research in Humanities is the need of the hour.

Large proportion of funds is received from government funding agencies. The college management provides need based funds.
Yet there is always a gap between the projections and practice for want of sufficient funds.

7. Notes:

From the aforesaid it can be conclusively seen that the College has interwoven its research capabilities with industry on one hand to further its mission of "Lab to Land" and the society on the other. It is inculcating research awareness/ social responsibility within its students and creating awareness in the younger population of school going children as a backward integration effort for the benefit of the society.

Future Plans:
- To build laboratories in collaboration with Institutions of National Importance.
- To extend the research facilities to the under graduate and school children for inculcating research aptitude at a young age

8. Contact Details:

Name of the Principal: Dr B B Sharma
Name of the Institution: V G Vaze College of Arts Science and Commerce
City: Mumbai
Pin Code: 400081
Accredited Status: a Grade with CGPA 3.17
Work Phone : 022 21631004
Website: www.vazecollege.net   Email: vazecolleg@gmail.com And principal@vazecollege.net
Mobile: +91 9820502142

 V G Vaze College

DEPARTMENT OF ECONOMICS

1. **Name of the department :** Economics

2. **Year of Establishment:** 1984

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):** UG, Ph D

4. **Names of Interdisciplinary courses and the departments/units involved:** NA

5. **Annual/ semester/choice based credit system (programme wise):** CBSGS

6. **Participation of the department in the courses offered by other departments:** NA

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons:** NA

9. **Number of Teaching posts :**

	Sanctioned	Filled
Professors	--	--
Associate Professors	01	Retired
Asst. Professors	01	01 + 01 Adhoc

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Dr Leena Thatte	MA, MPhil, PhD	Assoc. Prof & Head	Economics	30	02
Ms Vaishali Dhammapathi	MA, SET,	Assist. Prof	Economics	11	--
Ms Madhura Todewale	MA, SET, NET,	Assist. Prof	Economics	01	--

11. **List of senior visiting faculty:** NIL

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty:** 50%

13. **Student -Teacher Ratio (programme wise) :** 130:2

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :** NA

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

S.No	NAME	Qualification
1.	Dr Leena Thatte	MA, MPhil, PhD
2	Ms Vaishali Dhammapathi	MA, SET,
3	Ms Madhura Todewale	MA, SET, NET,

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** NA

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:** NIL

18. **Research Centre /facility recognized by the University :**

Year of Establishment	Registered Students
Capacity	09
Registered students	02

215

19. Publications :

    a) Publication per faculty

    b) Number of papers published in peer reviewed journals
      (**b1**.international /**b2**.national) by faculty and students

    c) Number of publications listed in International Database (For Eg: Web of
      Science, Scopus, Humanities International Complete, Dare Database -
      International Social Sciences Directory, EBSCO host, etc

    d) Monographs

    e) Chapter in Books   f) Books Edited

    g) Books with ISBN/ISSN numbers with details of publishers

    h) Citation Index

    i) SNIP

    j) SJR

    k) Impact factor

    l) h-index

    m) others (Proceedings)

Faculty	a	b1	b2	c	D	e	f	g	h	i	j	k	l	m
Dr. Leena Thatte	09	03	02											04
Ms V Dhammapathi														
Ms. M Todewale														

20. Areas of consultancy and income generated : NA

21. Faculty as members in
    a) National committees b) International Committees c) Editorial Boards….: NA

22. Student projects
    a) Percentage of students who have done in-house projects including inter departmental/programme : NA
    b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : NA

23. Awards / Recognitions received by faculty and students : NIL

24. List of eminent academicians and scientists / visitors to the department: NA

25. Seminars/ Conferences/Workshops organized & the source of funding a) National b) International : NA

6. Student profile programme/course wise:

Name of the Course/program	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBA	655	121	35	86	90.00
TYBA		021	4	17	61.90

*M = Male *F = Female

27. Diversity of Students: No students from other state

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.? : NIL

29. Student progression:

Student progression	Against % enrolled
UG to PG	50%
PG to Ph.D.	01%
Employed • Campus selection • Other than campus recruitment	--- 20%
Entrepreneurship/Self-employment	01%

30. Details of Infrastructural facilities

    a) Library: Common Central Library with e-learning facility and Departmental Library

    b) Internet facilities for Staff & Students: Library, Staff Common Room, Language Lab.

    c) Class rooms with ICT facility: Multi media room, Mini Audi

    d) Laboratories: Language Laboratory, e-Learning lab

31. Number of students receiving financial assistance from college, university, government or other agencies : NIL

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts : MTTS

33. Teaching methods adopted to improve student learning
- Use of ICT in teaching
  - Giving of Online References
  - Teaching with the help of Power Point
  - Use of Videos for teaching
- Use of Books
  - Giving suggestions of Reference Books
  - Maintaining Departmental Library
- Remedial Coaching to weaker students
- Giving Model Answers to students to serve as guidelines
- Triadic Assessment
- Discussion of Case Studies in the classroom
- Giving topics to students for presentations in the classroom
- Discussions and debates on Current news
- Devising Games to test and Clarify the Concept

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Dr. Lina Thatte worked as VRG chairperson through which she conducted various surveys and wallpaper competitions on current social economic topics

Mrs. Vaishali Dhammapathee delivered a public lecture on women in Indian society

35. SWOC analysis of the department and Future plans

Strengths:
- High % of First classes at TYBA
- Conduct of Skill oriented Courses and Remedial Courses
- Qualified and experienced teachers having positions on University academic bodies
- Ph.D. Research Centre and Major Research Projects
- Alumni Database : A guide to Career Choice

Challenges:
- Gap in the difficulty level of syllabi at First Second and Third year level

 V G Vaze College

DEPARTMENT OF ENGLISH

1. **Name of the department :** English

2. **Year of Establishment:** 1984

3. **Names of Program / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG & PhD

4. **Names of Interdisciplinary courses and the departments / units involved:** FC (Science)

5. **Annual / semester/choice based credit system (program wise):** CBSGS

6. **Participation of the department in the courses offered by other departments:** BCom, SYBSc, BMM, Political Science, UPSC Lectures

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NIL

8. **Details of courses/programmes discontinued (if any) with reasons:** NA

9. **Number of Teaching posts:** 04

	Sanctioned	Filled
Professors	--	--
Associate Professors	03	03
Asst. Professors	01	01 Adhoc

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. / Ph.D. / M.Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Dr. Susmita Dey	MA, MPhil, PhD	Assoc. Prof. and Head	English Language and Literature Teaching	30	05 (In progress)
Dr. Nilakshi Roy	MA, MPhil, PhD	Assoc. Prof.	Diaspora studies	28	06 (In progress)
Dr. Dinesh Kumar	MA, SET, PhD	Assoc. Prof.	African-American studies	24	07 (In progress)
Ms. Sundari Johnson	MA, SET	Ad- Hoc Asst. Prof	Masculinity studies	03	Nil

11. **List of senior visiting faculty :** NIL

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** 26

13. **Student-Teacher Ratio (programme wise) :** 122:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled:** NIL

15. **Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.:**

S.No	Name	Qualification
1	Dr. Susmita Dey	MA, MPhil, PhD
2	Dr. Nilakshi Roy	MA, MPhil, PhD
3	Dr. Dinesh Kumar	MA, SET, PhD
4	Ms. Sundari Johnson	MA, SET

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:**
    a) National: Applied for from UGC., in August 2015

17. **Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received:**
    UGC Rs. 1.38 Lacs

18. **Research Centre/facility recognized by the University :**

Year of Establishment	2013-14
Capacity	24
Registered students	19 (Inhouse =04 + through University =15)

19. **Publications :**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l	m
Dr Susmita Dey	14	3	2			1	8							
Dr. Nilakshi Roy	21	7	2			4	8							
Dr. Dinesh Kumar	24	7	4			5	8					1		
Ms Sundari Johnson	02		1			1								

20. **Areas of consultancy and income generated :**

Year	Name of Faculty	Nature of consultancy	Name of Institute / NGO/ etc	Income generated, if any
2012-13 to 205-16	Dr. Dey	i)Teacher Training	Kendriya Vidyalaya	Honorary consultancy
2013-14 & 2015-16	Dr. Roy	Community Development Service	Saksham Community Centre	Honorary consultancy
2012-13 & 2014-15	Dr. Dinesh	ii) Soft skills training	S K Somaiya College	Honorary consultancy

21. **Faculty as members in**
    a) National Committees: NIL
    b) International Committees: NIL
    c) Editorial Boards: 03

22. **Student projects**
    a) Percentage of students who have done in-house projects including interdepartmental / programme: 56%
    b) Percentage of students placed for projects in organizations outside the in stitution i.e. in Research laboratories / Industry / other agencies : NIL

23. **Awards/Recognitions received by faculty and students :** NIL

24. **List of eminent academicians and scientists / visitors to the department:**
    Academicians:
    Dr. Mabel Fernandes, Head Dept of English department BAMU
    Dr. Shilpa Sapre- Bharmal, Chairperson BOS, Mumbai University
    Dr. Rambhau Badode, Former, Head Dept of English, MU
    Dr. Coomi Vivaina, Former, Head Dept of English, MU
    Dr. A. P. Pandey, Former, Head Dept of English, RJ College
    Dr. Sampada Chavan, University of Houston

25. **Seminars/Conferences/Workshops organized & the source of funding :**
    a) National:

Year	Title of conference/ workshop	Level	Funding
2012-13	BOS workshop for new syllabus for SYBA	Univ. of Mumbai	Self generated
2013-14	Celebrating 200 years of Pride and Prejudice	College	Self generated
2014-15	i.) Revisiting World War 1 ii.) ii Lit Flix	National College	Self generated

2015-16	Child Labour: Issues & Challenges	National	ICSSR
2016-17	Poetic Medley	College	Self generated

b) International : NIL

26. Student profile programme / coursewise : 2015-16

Name of the Course/programme	Applications received	Selected	Enrolled *M	Enrolled *F	Pass percentage
FYBA	655	111	12	99	98
TYBA	217	22	03	21	86.37

*M=Male *F=Female

27. Diversity of Student: No students from

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : 02 NET & 08 SET

29. Student progression :

Student progression	Against % enrolled
UG to PG	70
PG to M.Phil.	-
PG to Ph.D.	2
Ph.D. to Post-Doctoral	
Employed ➟Campus selection ➟Other than campus recruitment	100
Entrepreneurship/Self-employment	

30. Details of Infrastructural facilities

   a) Library: Common Central Library with e-learning facility and Departmental Library
   b) Internet facilities for Staff & Students: Library, Staff Common Room, Language Laboratory
   c) Class rooms with ICT facility : Multi media room, Mini Audi,
   d) Laboratories: Language Laboratory, e Learning lab

31. Number of students receiving financial assistance from college, university, government or other agencies : NIL

32. Details on student enrichment program(special lectures/workshops/seminar) with external experts :

Year	Details of Program
2012-13	Remedial Coaching, Jaipur Literature Festival
2013-14	Remedial Coaching, Hyderabad Literature Festival
2014-15	Remedial Coaching, Times Literature Festival
2015-16	Remedial Coaching, Times Literature Festival, Kala Ghoda Festival
2016-17	Remedial Coaching

33. **Teaching methods adopted to improve student learning :**
   - Use of social media for quick and effective dissemination of information
   - Effective use of Web 2.0 tools in teaching
   - Use of online libraries such as INFLIBNET and American Library
   - Use of audio-visual text to facilitate and enhance literary studies
   - Student- Alumni Interface
   - Student seminars and presentations
   - Remedial teaching
   - Screening of films
   - Group Discussion
   - Role Play

34. **Participation in Institutional Social Responsibility(ISR) and Extension activities**
   Dr. Nilakshi Roy: Associated with NGO Saksham Community Centre for women and Children-
   Activities:
   i) Organised : Summer camp for children, Health Camp for the aged, and Soap making and *Haldi Kumkum* for women.
   ii) Conducted: reading sessions, taught patriotic song, and health surveys in 50 households.
   iii) Dr. Nilakshi Roy :visited the NSS camp in October 2015 in Ambernath.

35. **SWOC analysis of the department and Future plans :**
   Strength
   - Diverse specializations
   - Motivated faculty
   - Versatile interests

   Weakness
   - Large classes
   - Infrastructural lacunae
   - Out dated syllabi

   Opportunities
   - English is the language of opportunity in society
   - Emerging career options with English as an option

   Challenges
   - Mixed ability multi level classes

   Future Plans:
   - Conduct skill development programs to enhance English skills using the Language Laboratory
   - Conduct soft skill courses for students
   - Prepare students for TOEFL and the English components of GRE, GMAT and other competitive
   - examinations
   - NET/SET training

DEPARTMENT OF HINDI

1. **Name of the department :** Hindi

2. **Year Of Establishment :** 1984

3. **Names of Programs / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG,

4. **Names of Inter disciplinary courses and the departments/units involved :** NA

5. **Annual/ semester/choice based credit system (program wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments:** NA

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts :** 01

	Sanctioned	Filled
Associate Professors	01	Retired
Asst. Professors	01	01- Adhoc

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Dr Ashok Mishra	MA, BEd., PhD	Assoc. Prof & Head	Hindi	30	--
Archana Dubey	MA, BEd, PGDT	Asst. Prof	Hindi	01	--

11. **List of senior visiting faculty :** NIL

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** 100

13. **Student -Teacher Ratio (programme wise)** 26 : 1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :** NA

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

S.No	NAME	Qualification
1.	Dr. Ashok Mishra	MA, B,Ed, PhD
2	Ms Archana Dubey	MA, B,Ed, PGDT

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** NA

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received.:** NIL

18. **Research Centre /facility recognized by the University :** NA

20. **Areas of consultancy and income generated :** NA

21. **Faculty as members in**
    a) National committees b) International Committees c) Editorial Boards….: NA

22. **Student projects**
    a) **Percentage of students who have done in-house projects including   i interdepartmental/programme :** NA
    b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :** NA

23. **Awards / Recognitions received by faculty and students :** NIL

24. **List of eminent academicians and scientists / visitors to the department:** NA

25. **Seminars/ Conferences/Workshops organized & the source of funding a) National b) International :** NA

26. **Student profile programme/course wise:**

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBA	748	96	17	79	100
TYBA	217	02	00	02	50

*M = Male   *F = Female

27. **Diversity of Students :** No students from other state

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? :** NIL

29. **Student progression**

Student progression	Against % enrolled
UG to PG	50
PG to Ph.D.	--
Employed • Campus selection • Other than campus recruitment	--
Entrepreneurship/Self-employment	--

30. **Details of Infrastructural facilities**
    a) **Library :** Common Central Library with e-learning facility and Departmental Library
    b) **Internet facilities for Staff & Students:** Library, Staff Common Room, Language Lab
    c) **Class rooms with ICT facility :** Multi media room, Mini Audi,
    d) **Laboratories:** Language Laboratory, e Learning lab

31. **Number of students receiving financial assistance from college, university, government or other agencies :** NIL

32. **Details on student enrichment programmes (special lectures / workshops / seminar) with external experts :** MTTS

33. **Teaching methods adopted to improve student learning**

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities**

35. **SWOC analysis of the department and Future plans**

    • **Strength**- Individual attention
    • **Weakness**- Hindi Major not available.
    • **Opportunities**- Develop competency at National Level
    • **Challenges**- Developing the importance of Hindi increasing the positive outlook towards the students.

DEPARTMENT OF HISTORY

1. **Name of the department :** History

2. **Year of Establishment :** 1986

3. **Names of Programs / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG, PhD

4. **Names of Interdisciplinary courses and the departments/units involved :** Foundation Course at   FY & SY level

5. **Annual/ semester/choice based credit system (program wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments:** Conduct lectures for M.Com., BMM., & Political Science students

7. **Courses in collaboration with other universities, industries, foreign Institutions, etc. :**
   - The Art Appreciation Courses were conducted in collaboration with Heras Institute of Indian History and Culture, St Xaviers College, Mumbai.
   - Dr Sonali Pednekar conducts a course on Modi Lipi at the Heras Institute of Indian History and Culture, St Xaviers College, Mumbai.
   - Dr Preeta Nilesh is a visiting faculty for Research Methodology at the Naval War College, Goa for candidates engaged in MPhil and PhD and also at the Defence Services Staff College Wellington, an International Academy of the Combined Services
   - Dr Preeta Nilesh is visiting faculty at ICSE and CBSC schools for modules on European History
   - Dr Satwant Balse conducted Entrepreunership Development Programme in college in collaboration with Rajiv Gandhi National Institute of Youth Development and ICT Academy of Tamil Nadu

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts :** 03

	Sanctioned	Filled
Professors	--	--
Associate Professors	02	02
Asst. Professors	01	01

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M.Phil.   etc.,**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Dr Sonali Pednekar	MA, M.Phil, Ph.D	Assoc. Prof & Head	History of the Marathas, Pre Modern Maharashtra	30	02
Dr Preeta Nilesh	MA, M.Phil, Ph.D	Assoc. Prof	Modern India, Culture Studies	30	01+02
Dr Satwant Balse	MA, M.Phil, MBA, Ph.D	Assoc. Prof	Modern India	27	

11. **List of senior visiting faculty :** NIL

12. **Percentage of lectures delivered and practical classes handled (programme wise)by temporary faculty :** NIL

13. **Student -Teacher Ratio (programme wise)**

Level	Faculty	No. of teachers	Student -Teacher Ratio
	Arts		
UG	233	03	8.7:1
PG			
Ph.D	07	03	7:3

14. **Number of academic support staff (technical) and administrative staff: sanctioned and filled :** NA

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

Sr. No	Name	Qualification
1.	Dr Sonali Pednekar	MA, M.Phil, Ph.D
2.	Dr Preeta Nilesh	MA, M.Phil, Ph.D
3.	Dr Satwant Balse	MA, M.Phil, MBA, Ph.D

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received**

	Sanctioning Agency	Sanctioned Amount	Duration
Dr Sonali Pednekar	Asiatic Society of Mumbai	Rupees One lac	2012 – 2016
Dr Preeta Nilesh	K R Cama Institute of Oriental Studies	Rs 2.5 lacs	2012-13
Dr Sonali Pednekar	Heras Institute of Ancient History and Culture	Rs. 1,20,000 / -	2015 -2016

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :** UGC 105000/-

18. **Research Centre /facility recognized by the University :** Ph.D. centre

19. **Publications :**

Faculty	a	b1	b2	C	d	e	f	g	h	i	j	K	l	m	n
Dr Sonali Pednekar	07	02	05					02							
Dr Preeta Nilesh	19	05	14					01							
Dr Satwant Balse	04		04												

20. **Areas of consultancy and income generated :** Honorary Consultancy in Modi Documents

21. **Faculty as members in**
    a) National committees b) International Committees c) Editorial Boards….
    - Dr Sonali Pednekar on editoral board of the Explorer, a journal of the Bombay Local History Society
    - Dr Preeta Nilesh on editorial board of Research Dimensions

22. **Student projects**
    a) Percentage of students who have done in-house projects including inter departmental/programme : NIL
    b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: NIL

23. **Awards / Recognitions received by faculty and students :** NIL

24. List of eminent academicians and scientists / visitors to the department:
- Dr Kurush Dalal, Faculty, Extra Mural Studies, University of Mumbai
- Prof Varsha Muley, Head, Department of History, SIES College, Mumbai

25. Seminars/ Conferences/Workshops organized & the source of funding
   a) **National :** National conference on Revisiting World War II, (2012), Funded by ICSSR
   b) **International :** NIL

26. Student profile programme/course wise: 2915-16

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBA	655	105	38	67	71
TYBA	217	16	03	13	86.66

*M = Male   *F = Female

27. Diversity of Students: No students from other state

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : 02

29. Student progression

Student progression	Against % enrolled
UG to PG	46
PG to M.Phil.	Prathamesh Karle
PG to Ph.D.	Neha Dhavale, Snehal Nagtilak, Namrata Howal
Ph.D. to Post-Doctoral	NIL
Employed • Campus selection • Other than campus recruitment	 27
Entrepreneurship/Self-employment	NIL

30. Details of Infrastructural facilities
   a) **Library :** Common Central Library with e-learning facility and Departmental Library
   b) **Internet facilities for Staff & Students:** Library, Staff Common Room, Language Lab.
   c) **Class rooms with ICT facility :** Multi media room, Mini Audi,
   d) **Laboratories:** NA

31. Number of students receiving financial assistance from college, university, government or other agencies: NIL

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts: Annual excursions to historical sites, Photo exhibitions,

33. Teaching methods adopted to improve student learning:

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: Students participate in Life Long Learning activities.

35. SWOC analysis of the department and Future plans
   Strengths:
- Expertise in different periods of History
- Ability to supervise research in English and regional language
- Secular and liberal approach towards teaching of History
- To contextualize the present in a historical perspective

- Strong Alumni linkage

Weaknesses:
- No major research research project
- No inter collegiate competitions for students
- Few conferences / seminars / workshops organized

Opportunities:
- To invite scholars of national repute to share knowledge with students
- To organize national conferences / seminars / workshops in History
- Utilize alumni expertise in offering various career options to students

Challenges:
- To create interest in the subject of History among students

Future plans:
- To adopt more student centric activities

DEPARTMENT OF MARATHI

1. **Name of the department :** Marathi

2. **Year of Establishment :** 1984

3. **Names of Programs / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG,

4. **Names of Interdisciplinary courses and the departments/units involved :** NA

5. **Annual/ semester/choice based credit system (program wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments:** NA

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts :**

	Sanctioned	Filled
Professors	--	--
Associate Professors	01	01
Asst. Professors	01	01

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Dr Prakash Parab	MA, MA, PhD., DHRM	Assoc. Prof & Head	Marathi Grammer, Language Planning	26	--
Mr. Arvind Jadhav	MA, B.Ed., PGDT, NET	Asst. Prof	Marathi Theatre	09	--

11. **List of senior visiting faculty :** NIL

12. **Percentage of lectures delivered and practical classes handled (program wise)by temporary faculty :** NIL

13. **Student -Teacher Ratio (programme wise) :** 50:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :** NA

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

S.No	NAME	Qualification
1.	Dr. Prakash Parab	MA, PhD, MA, DHRM
2	MR. Arvind Jadhav	MA, B,Ed, PGDT, NET

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** NA

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :** Rs. 25,000/- Univ of Mum

18. **Research Centre /facility recognized by the University :** NA

19. **Publications :** NIL

20. **Areas of consultancy and income generated :** NA

21. **Faculty as members in**
    a) National committees b) International Committees c) Editorial Boards….: NA

22. **Student projects**
    a) **Percentage of students who have done in-house projects including inter departmental/programme :** NA
    b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :** NA

22. **Student projects**
    a) **Percentage of students who have done in-house projects including inter departmental/programme :** NA
    b) **Percentage of students placed for projects in organiza tions outside the institution i.e.in Research laboratories/Industry/ other agencies :** NA

23. **Awards / Recognitions received by faculty and students :** NIL

24. **List of eminent academicians and scientists / visitors to the department:** NA

25. **Seminars/ Conferences/Workshops organized & the source of funding a) National b) International :** NA

26. **Student profile programme/course wise:** 2015-16

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBA	655	37	09	28	78
TYBA		16	06	10	62

   *M = Male   *F = Female

27. **Diversity of Students :** No students from other state

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? :** NIL

29. **Student progression**

Student progression	Against % enrolled
UG to PG	30
Employed • Campus selection • Other than campus recruitment	--
Entrepreneurship/Self-employment	--

30. **Details of Infrastructural facilities**
    a) **Library :** Common Central Library with e-learning facility and Departmental Library
    b) **Internet facilities for Staff & Students:** Library, Staff Common Room, Language Laboratory
    c) **Class rooms with ICT facility :** Multi media room, Mini Audi,
    d) **Laboratories:** Language Laboratory, e Learning lab

31. **Number of students receiving financial assistance from college, university, government or other agencies :** NIL

32. **Details on student enrichment programmes (special lectures / workshops /seminar) with external experts :** 01

33. **Teaching methods adopted to improve student learning:** NA

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities:**
    Actively involved in promotion of Marathi language

35. SWOC analysis of the department and Future plans

STRENGTH –

- Committed to empower students who opt for Marathi despite all kind of negativity vis-à-vis English attached to it.
- Never disown weak students
- Provide career guidance
- Believe in linguistic and cultural diversity
- Offer training for effective use of Marathi on computer
- Open to academic reforms

WEAKNESS-

- Lack of quality study material and e-content
- Disconnect between curriculum and user sector
- In the increasingly English dominating world the course lost its
- popularity and unable to attract bright students

OPPORTUNITIES–

- Opportunity to serve disadvantaged students

CHALLENGES–

- Getting right / genuine students for the course
- To keep the course alive
- To bring back the lost glory of Marathi
- To sensitize people towards Marathi language and culture

DEPARTMENT OF POLITICAL SCIENCE

1. **Name of the department :** Political Science

2. **Year of Establishment :** 1984

3. **Names of Programs / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG

4. **Names of Interdisciplinary courses and the departments/units involved :** NA

5. **Annual/ semester/choice based credit system (program wise) :** CBSGC

6. **Participation of the department in the courses offered by other departments :** Foundation Course

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

8. **Details of courses/programs discontinued (if any) with reasons :** NA

9. **Number of Teaching posts**

	Sanctioned	Filed
Professors	---	---
Associate Professors	01	01
Asst. Professors	01	01

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. / Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided
Ms. Mrudula Dewasthale	MA , MPhil, LLB	Associate Professor	Indian Politics	34 years	---
Ms. Manasi Kedari	MA, SET	Assistant Professor	International Politics	10 years	---

11. **List of senior visiting faculty :** NA

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** NIL

13. **Student -Teacher Ratio (programme wise) :**
    FYBA-100:2   SYBA-100:1   TYBA-30:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :** NA

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

Sr. No.	Name	Qualification
01.	Ms. Mrudula Dewasthale	MA, MPhil, LLB.
02.	Ms. Manasi Kedari	MA, SET.

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** NIL

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :** NIL

18. **Research Centre /facility recognized by the University :** NA

19. Publications:

Faculty	a	b1	b2	C	d	e	f	g	h	i	J	k	l	m
Ms. M. Dewasthale	03	01				01		01						
Ms. Manasi Kedari														

20. Areas of consultancy and income generated : NA

21. Faculty as members in
   a) National committees b) International Committees c) Editorial Boards : NIL

22. Student projects
   a) Percentage of students who have done in-house projects including inter departmental/program : NIL
   b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : NIL

23. Awards / Recognitions received by faculty and students : NIL

24. List of eminent academicians and scientists / visitors to the department
   1) Prof Medha Dhapre of Kirti College, Dadar,
   2) Dr. Uttara Sahasrabuddhe of University of Mumbai
   3) Dr. Deepak Pawar of University of Mumbai
   4) Dr. Rashmi Bhure of S.I.E.S College
   5) Mr.Shailesh Gandhi a human rights activist

25. Seminars/ Conferences/Workshops organized & the source of funding
   a) National : 02
   b) International: NIL

26. Student profile programme/course wise: 2015-16

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBA	655	93	27	66	76.41
TYBA	40	36	17	20	94.44

   *M = Male   *F = Female

27. Diversity of Students : No student from other states

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc. : NIL

29. Student progression

Student progression	Against % enrolled
UG to PG	25
PG to M.Phil.	--
PG to Ph.D.	--
Ph.D. to Post-Doctoral	--
Employed • Campus selection • Other than campus recruitment	--
Entrepreneurship/Self-employment	--

30. Details of Infrastructural facilities
   a) Library : Common Central Library with e-learning facility and Departmental Library
   b) Internet facilities for Staff & Students: Library, Staff Common Room, Language Lab.
   c) Class rooms with ICT facility : Multi media room, Mini Audi,
   d) Laboratories : NA

31. **Number of students receiving financial assistance from college, university, government or other agencies :** NA

32. **Details on student enrichment programmes (special lectures / workshops / seminar) with external experts :** Visit to Vidhansabha, Mooc Court , Special Lectures

33. **Teaching methods adopted to improve student learning**

    Assignments ,Power point presentations, Use of maps, Case study methods, Field Visit
    News analysis, Screening of film, Group discussion, Interactive sessions with experts, Debate…

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities:** Faculty involved in– UPSC/MPSC Cell , REMEDIAL COACHING Member – WDC

35. **SWOC analysis of the department and Future plans:**

    Strengths :
    - Promoting civic consciousness.
    - Sensitizing the students about democratic practices.
    - Creating awareness about Indian Polity and International Politics

    Weakness :
    - Internship by students
    - Major research projects undertaken
    - Research papers published

    Opportunities :
    - Short term courses in
    o Human rights
    o Psephology (study and scientific analysis of elections)
    o Labour Studies

    Career for students in :
    - Teaching
    o Civil Services
    o Journalism
    o Competitive Exams
    o Social Work
    - Undertaking small projects on politically relevant themes like-
    o Election survey
    o Rural leadership
    o Women leadership
    o Functioning of local bodies

    Challenges:
    - Competition with applied courses

    Future Plans :
    - To emphasize more on ICT methods in teaching and learning.
    - To organize more field visits to places of educational importance.
    - To enhance receptivity of new ideas in the subject.
    - To promote nation building by imparting the importance of political values.
    - To increase political participation of students.
    - To create awareness about functioning of pressure groups, lobbies and the role of bureaucracy.
    - To focus more on current affairs – national and world.
    - To guide students in the preparation of NET/SET , UPSC/MPSC and other competitive exams.

DEPARTMENT OF PSYCHOLOGY

1. **Name of the department:** Psychology

2. **Year of Establishment :** 1984

3. **Names of Programs / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG

4. **Names of Interdisciplinary courses and the departments/units involved :** NA

5. **Annual/ semester/choice based credit system (program wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments**

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** NA

8. **Details of courses/programmes discontinued (if any) with reasons:** NA

9. **Number of Teaching posts**

	Sanctioned	Filled
Professors	00	**00**
Associate Professors	**02**	**02**
Asst. Professors	**01**	**01**

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,) :**

Name	Qualification	Designation	Specialization	No.of Years of Experience	No.of Ph.D. Students Guided forthe Last 4 years
Ms. Neeta Kulkarni	MA, M.Phil.	Associate Professor	Clinical Psychology	34 years	NA
Dr. Neeta Mehta	MA; SET; M.Phil; Ph.D.	Associate Professor	Clinical Psychology	25 years	NA
Ms. Reeta Kamble	MA; SET; M.Phil	Assistant Professor	Industrial Psychology	7 years	NA

11. **List of senior visiting faculty:** NA

12. **Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty :** NIL

13. **Student -Teacher Ratio (programme wise)**

YEAR	2012-2013	2013-2014	2014-2015	2015-2016
FYBA	95:1	97:1	96:2	112:2
SYBA Paper II and III	94:2	69:2	91:3	89:3
SYBA Health Psychology	48:1	35:1	36:1	45:1
TYBA	24:3	24:3	24:3	24:3
TYBCom	194:1	195:1	204:1	223:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :**   NA

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

NAME OF THE FACULTY	QUALIFICATION
Ms Neeta Kulkarni	MA, M.Phil.
Dr. Neeta Mehta	MA; SET; M.Phil; Ph.D.
Ms. ReetaKamble	MA; SET; M.Phil

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** NIL

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grant received :**   NA

18. **Research Centre /facility recognized by the University:** NA

19. **Publications :**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l	m
Ms.Neeta Kulkarni	06		03											03
Dr. Neeta Mehta	09	04	05											
Ms. Reeta Kamble	01		01											

20. **Areas of consultancy and income generated :** NA

21. **Faculty as members in**
    a) National committees b) International Committees c) Editorial BoardS : NA

22. **Student projects**
    a) **Percentage of students who have done in-house projects including inter departmental/programme :** 03%
    b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :** 01% (Avishkar)

23. **Awards / Recognitions received by faculty and students :** NA

24. **List of eminent academicians and scientists / visitors to the department :**
    - DR. Anand Nadkarni , leading Psychatrists.
    - Dr. Shubha Thatte, renowned Psychologist.
    - Ms. Amruta Subhas Marathi Actress.
    - Dr. Arun Naik , well-known Psychologist.
    - Mr. Govind Nihalani, leading Film-Director.
    - Ms.Minal Koparde, Industrial psychologist
    - Dr. Nandana Tati, Health Psychologist

25. **Seminars/ Conferences/Workshops organized & the source of funding**
    a) **National :** 03 (Funding agency ICSSR & UGC)
    b) **International :** NIL

26. **Student profile programme/course wise: 2015-16**

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBA	655	75	08	67	83.03
TYBA	44	24	04	20	91.66

*M = Male   *F = Female

27. **Diversity of Students: No student from other state**

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

29. Student progression

Student progression	Against % enrolled
UG to PG	70
PG to Ph.D.	05
Ph.D. to Post-Doctoral	-
Employed	-
☛ Campus selection	-
☛ Other than campus recruitment	100
Entrepreneurship/Self-employment	-

30. Details of Infrastructural facilities
   a) Library : Common Central Library with e-learning facility and Departmental Library
   b) Internet facilities for Staff & Students: Library, Staff Common Room, Language Laboratory
   c) Class rooms with ICT facility : Multi media room, Mini Audi,
   d) Laboratories: Language Laboratory, e Learning lab

31 Number of students receiving financial assistance from college, university,government or other agencies : NA

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts: Exhibitions are held, Excursions to various instiutions are taken

33. Teaching methods adopted to improve student learning :
   • Lectures
   • Power Point Presentations
   • Screening of short films
   • Student assignments
   • Group Discussion

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

35. SWOC analysis of the department and Future plans :
   Strengths
   • Motivated students
   • Popularity of subject
   • Motivated and committed teachers
   • Quality education
   • Rapport with students
   Weaknesses
   • No major research project being undertaken
   • No seminar or conference being conducted - Research papers
   Opportunities
   • Popularity of subject
   • Applied Subject.
   • Enhancing & Developing the Department by increasing the number of students at TY level.
   • Arrangement of the Internship in the field of mental health
   Challenges
   • Balancing of demands of academics and co-curricular and extra-curricular activities
   • Raising Funds for carrying out activities
   • Undertaking socially relevant research projects.
   • Inculcating research orientation among the students.

Future Plans

- More institutional visits for providing psychology students field experience.
- Conduction of seminars on key areas related to psychology
- Collaborating with department of HRD in various industries for providing TYBA students with mini- internship experience
- Collaborating with NGOs and institutes concerned with mental health issues to provide TYBA students mini-field experience through volunteering
- Use of alumni to motivate the present students towards career building

DEPARTMENT OF SOCIOLOGY

1. **Name of the department :** Sociology

2. **Year of Establishment :** 1988

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG,

4. **Names of Interdisciplinary courses and the departments/units involved :** NA

5. **Annual/ semester/choice based credit system (programme wise) :** CBSG

6. **Participation of the department in the courses offered by other departments:** NA

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts :** 02

	Sanctioned	Filled
Professors	--	--
Associate Professors	02	01
Asst. Professors		

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Dr K L Samal(Retd)	MA, MPhil, PhD	Assoc. Prof & Head	Industrial Sociology	28	--
Dr. M K Shanta	MA, MPhil, PhD	Assoc. Prof	Urban Sociology	27	--

11. **List of senior visiting faculty :** NIL

12. **Percentage of lectures delivered and practical classes handled (program wise) by temporary faculty :** 18% from Oct 2015

13. **Student -Teacher Ratio (programme wise)** 26 : 1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :** NA

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

S.No	NAME	Qualification
1.	Dr.KanakLata Samal	MA, MPhil, PhD
2	Dr.M.K.Shanta	MA, MPhil, PhD

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** NA

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :** NIL

18. **Research Centre /facility recognized by the University :** NA

19. **Publications :**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l	m
Dr.KanakLata Samal	02					01								01
Dr.M.K.Shanta	04	01				01								02

20. **Areas of consultancy and income generated :** NA

21. **Faculty as members in a) National committees b) International Committees c) Editorial Boards….:** Dr. K L Samal was-
    - Member BOS of K.J.Somaiya College and St. Xavier College from 2012-13 to 2015-16 .
    - Member of RC-21 ,Indian Sociological Society(from 2008 to 2015)
    - Member of RC- 32 . World Sociology Congress and World forum of Sociology from (2010 to 2015)
    - Member of editorial board **IOSR journal (International Journal)**

22. **Student projects**
    a) **Percentage of students who have done in-house projects including inter departmental/programme :** NA
    b) **Percentage of students placed for projects in organizations outside the institution i.e. in research laboratories/Industry/ other agencies :** NA

23. **Awards / Recognitions received by faculty and students :** NIL

24. **List of eminent academicians and scientists / visitors to the department:** NA

25. **Seminars/ Conferences/Workshops organized & the source of funding**
    a) **National :** 02 Conferences Funding agency ICSSR
    b) **International :** NA

26. **Student profile programme/course wise: 2015-16**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled *M	*F	Pass percentage
FYBA	655	117	23	94	94
TYBA		40	09	31	95

   *M = Male   *F = Female

27. **Diversity of Students :** No students from other state

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? :** NIL

29. **Student progression**

Student progression	Against % enrolled
UG to PG	50
PG to M.Phil.	--
PG to Ph.D.	--
Ph.D. to Post-Doctoral	--
Employed ☛ Campus selection ☛ Other than campus recruitment	 -- --
Entrepreneurship/Self-employment	--

30. **Details of Infrastructural facilities**
    a) **Library :** Common Central Library with e-learning facility and Departmental Library
    b) **Internet facilities for Staff & Students:** Library, Staff Common Room, Language Lab.
    c) **Class rooms with ICT facility :** Multi media room, Mini Audi,
    d) **Laboratories:** NA

31. **Number of students receiving financial assistance from college, university, government or other agencies :** NIL

32. **Details on student enrichment programmes (special lectures / workshops /seminar) with external experts :** Organize lectures and talks by experts on current issues in society, organize study tours to different cities for learning town planning, encourage students to participate in conferences and competitions.

33. **Teaching methods adopted to improve student learning :** Use of ICT,Group discussion,Deleberation on important issues

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities:** Lifelong learning and extension activities.

35. **SWOC analysis of the department and Future plans:**
    Strength:
    - Popularity of the subject and student strength
    - Facilitating use of regional language among the students.
    - Applied nature of the subject

    Weakness
    - No minor and major projects have been undertaken by the department

    Opportunities:
    - Introduction of short term courses for students
    - Arranging Internship for students with some NGOs

    Challenges :
    - Managing time to do curricular as well as extracurricular activities
    - Inculcating research orientation among students

    Future Plans
    - To train the under graduates for participation in applied behavioural analysis, Civil service, Counselling, Criminology, Diplomatic service, Human Rights International development agencies, Market research, Print and broadcast journalism, Psychotherapy, Public relations, Urban and Regional Planning.

DEPARTMENT OF BOTANY

1. **Name of the department :** Botany

2. **Year of Establishment :** 1984

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D.,Integrated Masters; Integrated Ph.D., etc.) :** UG, PG & Ph.D

4. **Names of Interdisciplinary courses and the departments/units involved :** biotechnology

5. **Annual/ semester/choice based credit system (programme wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments:** biotechnology & Cosmetology

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts :**

	Sanctioned	Filled
Professors	--	--
Associate Professors	03	03
Asst. Professors	01	01

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Dr. S S Barve	MSc.,Ph.D	Assoc. Prof & Head	Cytogenetics	34	10
Dr . M A Deodhar	MSc.,DHE, Ph.D	Assoc. Prof	Palynology	29	07
Dr S L Dhuri	MSc. PhD	Assoc. Prof	Taxonomy	29	--
Dr. A S Kengar	MSc, NET, SET, PhD	Asst. Prof	Taxonomy	20	--

11. **List of senior visiting faculty :** NIL

12. **Percentage of lectures delivered and practical classes handled (programme wise)by temporary faculty :** 100

13. **Student -Teacher Ratio (programme wise):** 30:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :**(Botany and Zoology together)

Year	No of academic support staff	No of academic support staff	No of administrative staff	No of administrative staff
	Sanctioned	Filled	Sanctioned	Filled
2012-2013	13	13	03	03
2013-2014	13	13	03	03
2014-2015 Onwards	13	12	03	03

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

S.No	NAME	Qualification
1.	Dr. S S Barve	MSc.,Ph.D
2	Dr . M A Deodhar	MSc.,DHE, Ph.D
3	Dr. S L Dhuri	MSc. PhD
4	Dr A S Kengar	MSc,NET, SET, PhD

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : 03 Projects National level Funded by DBT

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : 03 Funded by DST Rs. 260.7Lacs

18. Research Centre /facility recognized by the University : NA

19. Publications :

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l	m
Dr. S S Barve	15	09	06											
Dr . M A Deodhar	08	08												
Dr. S L Dhuri	01	01												
Dr A S Kengar	09	09												

20. Areas of consultancy and income generated : NA

21. Faculty as members in
   a) National committees: NA
   b) International Committees: NA
   c) Editorial Boards: NA

22. Student projects
   a) Percentage of students who have done in-house projects including inter departmental/programme : NA
   b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : NA

23. Awards / Recognitions received by faculty and students :
   • Dr. S.S. Barve recipient of IIGP DST- Lockheed Martin Innovation Scientist Award

24. List of eminent academicians and scientists / visitors to the department:

S.NO	Name of Speaker	Organization/Institute	Topic details
1	Dr. N.K. Sharma	BARC	Human Genetics
2	Dr. Parvish Pandya	Bhavan's College, Andheri	Wildlife
3	Mrs. M. Gholba	Bandodkar College, Thane	Biostatistics

25. Seminars/ Conferences/Workshops organized & the source of funding a) National b) International : NA

26. Student profile programme/course wise:

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBSc	1069	75	20	55	99.5
TYBSc	20	20	05	15	94.7

*M = Male   *F = Female

27. Diversity of Students : No students from other state

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : Data not available

29. Student progression

Student progression	Against % enrolled
UG to PG	50
PG to M.Phil.	--
PG to Ph.D.	--
Ph.D. to Post-Doctoral	--
Employed • Campus selection • Other than campus recruitment	100 100
Entrepreneurship/Self-employment	--

30. Details of Infrastructural facilities
   a) Library : Common Central Library with e-learning facility and Departmental Library
   b) Internet facilities for Staff & Students: Library, Staff Common Room, Language Lab
   c) Class rooms with ICT facility : Multi media room, Mini Audi,
   d) Laboratories: Separate laboratories for UG, PG, and Research

31. Number of students receiving financial assistance from college, university, government or other agencies : NIL

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts : Organize special lectures by experts, Conduct field trips, Visits to industries

33. Teaching methods adopted to improve student learning:
   * To give synopsis of every topic in the beginning of teaching
   * Discussions with students held in each topic taught to the students
   * Periodic short tests
   * Encouraging the students to use internet resources related to the subject
   * Remedial lectures for the weaker students

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: NIL

35. SWOC analysis of the department and Future plans
   * **Strength-**
      Industry academic interface
      Faculty involvement in development of syllabus
   * **Weakness-**
      Space Constrain
   * **Opportunities-**
      Internatonal collaboration
   * **Challenges**
      Establish consortium with industry and academia
   * **Future Plans**
      Introduction of hands on training courses

DEPARTMENT OF CHEMISTRY

1. **Name of the department :** Chemistry

2. **Year of Establishment :** 1984

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG, PG,PhD

4. **Names of Interdisciplinary courses and the departments/units involved :** NA

5. **Annual/ semester/choice based credit system (programme wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments:** FY & SY Chemistry syllabus of BSc Biotechnology

7. **Courses in collaboration with other universities, industries, foreign nstitutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts :**

	Sanctioned	Filled
Professors	--	--
Associate Professors	04	04
Asst. Professors	05	03+01 Adhoc

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Dr Vandana Panse	MSc, DHE, PhD	Assoc. Prof & Head	Physical	33	--
Dr. Girish Pusalkar	MSc, DHE, PhD	Assoc. Prof.	Physical	29	--
Dr Lakshmy Ravishankar	MSc, PhD	Assoc. Prof.	Organic	29	01
Dr Alka Kolhatkar	MSc, PhD	Assoc. Prof.	Inorganic	24	--
Dr Ashok Awale	MSc, NET, PhD	Asst. Prof.	Organic	14	--
Dr Suresh Shendage	MSc, SET, BEd, PhD	Asst. Prof.	Analytical	12	--
Dr Paresh More	MSc, PhD, BEd, SET	Asst. Prof.	Inorganic	07	--
Dr. P N Pabrekar Retd on 30/05/2016	MSc, DHE, PhD	Assoc. Prof.	Analytical	33	--

11. **List of senior visiting faculty :** NIL

12. **Percentage of lectures delivered and practical classes handled (programme wise)by temporary faculty :** 11.5%

13. **Student -Teacher Ratio (programme wise) (UG) 26 : 1 and 10:8 (PG)**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled :

	Sanctioned	Filled
Lab Assistant	03	03
Lab Attendant	12	12

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG

S.No	NAME	Qualification
1.	Dr Vandana Panse	MSc, DHE, PhD
2	Dr. Girish Pusalkar	MSc, DHE,PhD
3	Dr Lakshmy Ravishankar	MSc, PhD
4	Dr Alka Kolhatkar	MSc, PhD
5	Dr Ashok Awale	MSc, NET, PhD
6	Dr Suresh Shendage	MSc, SET, BEd, PhD
7	Dr Paresh More	MSc, PhD, BEd, SET
8	Dr. P N Pabrekar(Since Retd)	MSc, DHE, PhD

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : 01 ; UGC 2.5 Lacs(Sanctioned)

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: NA

18. Research Centre /facility recognized by the University :

Year of Establishment	2004
Capacity	20
Registered students	04

19. Publications :

Faculty	A	b1	b2	c	d	e	f	g	h	I	j	k	l	M
Dr Vandana Panse														
Dr. Girish Pusalkar														
Dr Lakshmy R.	12	03	08			01								
Dr Alka Kolhatkar														
Dr Ashok Awale	03	03												
Dr Suresh Shendage	16	16												
Dr Paresh More	08	04	04											
Dr. P N Pabrekar	10		10											

20. Areas of consultancy and income generated: NA

21. Faculty as members in
a) National committees b) International Committees c) Editorial Boards….: NA

Sr. No	Faculty	Member
1	Dr Vandana Panse	• Member of 'Association of Chemistry Teachers.
2	Dr.G.G Pusalkar	• Member of 'Journal of Chemistry and Environmental research.' • Member of Editorial board of the National Journal 'Research Dimensions'
3	Dr. Lakshmy Ravishankar	• Executive committee member of Royal Society of Chemistry, West India Section. • Association of Chemistry Teachers • Indian Chemical Society • Chemical Research Society of India

22. **Student projects**
    a) **Percentage of students who have done in-house projects including inter departmental/programme :** 1.5%
    b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :** NA

23. **Awards / Recognitions received by faculty and students :**
    A) Dr.G.G.Pusalkar
    - Recognition as PhD guide in the year 28 November2013 from Mumbai University

    B) Dr.Lakshmy Ravishankar :
    - Nominated for the '175 Faces of Chemistry project' by Royal Society of Chemistry, UK to commemorate the 175th anniversary of RSC in March 2014. First Indian to be nominated for the same
    - Received the Best Teacher Award from INSA (Indian National Science Academy) in 2014
    - Received the Best Teacher Award for Innovation in Teaching from TATA CHEMICALS in 2011

24. **List of eminent academicians and scientists / visitors to the department:**
    1. Prof. K.P.Kaliappan – Head, Dept. of Chemistry, IIT- Bombay
    2. Prof. Anindya Datta - Dept. of Chemistry, IIT- Bombay
    3. Prof. Balkrishna- Dept. of Chemistry, IIT- Bombay
    4. Dr. Santosh Gharpure - Dept. of Chemistry, IIT- Bombay
    5. Prof. R.M.Sunoj- Dept. of Chemistry, IIT- Bombay
    6. Dr. Suvarn Kulkarni - Dept. of Chemistry, IIT- Bombay
    7. Dr. Arindam Chowdhury –Dept. of Chemsitry, IIT-Bombay
    8. Prof.S.D.Samant – Dept. of Chemistry , ICT, Mumbai
    9. Prof. R.V.Jayram- Dept. of Chemistry , ICT, Mumbai
    10. Prof.A. Kumbhar –Dept. of Chemistry, Univ. of Pune
    11. Prof. A.V.Karnik –Head, University Dept. of Chemistry, Kalina, Mumbai
    12. Prof. S.H.Mashraqui- University Dept. of Chemistry, Kalina, Mumbai
    13. Prof. Kankan Bhattacharya – Indian Association for the Cultivation of Science
    14. Prof. Kelly Butler- Dept. of Chemistry, Chestnut College, Pennsylvania, USA.
    15. Dr. Savita Ladage-Dept. of Chemistry, HBCSE Mumbai
    16. Dr. Tyagi-Department of Chemistry, BARC
    17. Dr. Turel- Adjunct Professor,Mithibai College, Mumbai
    18. Dr. Malhotra- Department of Atomic Energy ,Government of India
    19. Dr. Sujata Kale – S.P.Garware College, Pune
    20. Dr.Abhiram Prabhu-RSC, Bangalore
    21. Dr.V. R.Aajgaonkar-Department of Chemistry, University of Mumbai.

25. **Seminars/ Conferences/Workshops organized & the source of funding**
    a) **National : 01** Symposium & 06 Workshops
    b) **International :** Nil

26. **Student profile programme/course wise:**

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBSc	1069	124	55	69	93.38
TYBSc	40	37	17	20	86.48

27. **Diversity of Students :** No students from other state

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? :** NET (03), JAM(02), MSc entrance exam (12)

29.   Student progression

Student progression	Against % enrolled
UG to PG	30
PG to M.Phil.	----
PG to Ph.D.	02
Ph.D. to Post-Doctoral	---
Employed • Campus selection • Other than campus recruitment	 01 90
Entrepreneurship/Self-employment	Data not available

30. Details of Infrastructural facilities
   a) **Library :** Departmental Library with 120 reference books and few Journals
   b) **Internet facilities for Staff & Students :** Available within department
   c) **Class rooms with ICT facility :** Multi media room, Mini Audi,
   d) **Laboratories :** 06 Laboratories measuring 5585 sq feet

31. Number of students receiving financial assistance from college, university, government or other agencies: 21

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts : PG Lecture Series: 01, Workshop(UG):11 , Workshop (PG): 07, Workshop (Teachers): 02, NET SET Lecture series:01 Guest lectures: 04, Educational Tours: 02, Seminar: 01

33. Teaching methods adopted to improve student learning
   a) Tutorials
   b) Workshops
   c) Study Circle
   d) Periodic tests
   e) Survey based projects
   f) Industrial visits
   g) POGIL (Process Oriented Guided Inquiry Learning)

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
   Laboratory facilities are extended to neighbouring college students for performing certain specialised practicals in chemistry

35. SWOC analysis of the department and Future plans
   Strength :   i) Vaze Chemica-In-house Yearly Publication
              ii) CHEM CLUB: Activity group of the Department
              iii) All faculty members are PhD holders;
              iv) Department Facebook page with nearly 500 members
              v) Regular interaction with alumni;
              vi) RSC –Student chapter (28 members)
   Weakness :   Not many research projects and funding for research project.
   Opportunities: i) More research at UG level with Star College Funding
   Challenges: i) Industry Academy interface is not regular as nearby industries are shifting out of city

 V G Vaze College

DEPARTMENT OF MATHEMATICS

1. **Name of the department :** Mathematics

2. **Year of Establishment :** 1984

3. **Names of Program/ Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG,

4. **Names of Interdisciplinary courses and the departments/units involved :**

   1) Mathematical and Statistical Technique for FYBCom
   2) Computer Systems and Applications for TYBCom

5. **Annual/ semester/choice based credit system (programme wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments:** Quantitative Techniques organized by Economics Department

7. **Courses in collaboration with other universities, industries, foreig institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts :**

	Sanctioned	Filled
Professors	--	--
Associate Professors	02	02
Asst. Professors	04	01+03(Adhoc)

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Mr. J. S. Sutar	MSc, CIC(IGNOU)	Assoc. Prof & Head	30	--
Dr. A. S. Vaidya	MSc, PhD, CIC(IGNOU)	Assoc. Prof	29	--
Mr. S. D. Kambale	MSc, SET	Asst. Prof	01	--
Prathamesh Uparkar	MSc	Asst. Prof Adhoc	01	--
Pratibha Kokare	MSc	Asst Prof Adhoc	01	--
Ajay Yadav	MSc	Demonstrator	01	--
Ms Geeta Gokhale	MSc, MPhil	Associate Prof (Retired)	36	

11. **List of senior visiting faculty :** NIL

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** 48

13. **Student -Teacher Ratio (programme wise):** 13.1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :** NA

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

S.No	NAME	Qualification
1.	Mr. Jayprakash S. Sutar	MSc, CIC
2	Dr. Anil S. Vaidya	MSc, PhD, CIC
3	Mr. Sandip D. Kambale	MSc, SET
4	Mr. Prathmesh Uparkar	MSc,
5	Mrs. Pratibha Kokare	MSc,
7	Mr. Ajay Yadav	BCA

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** NA

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received**

18. **Research Centre /facility recognized by the University :** NA

19. **Publications :**

Mr J S Sutar																
Dr Anil Vaidya				08												
Mr Sandip Kambale																
Mr P. Uparkar																
Ms Pratibha Kokare																
Mr Ajay Yadav																

20. **Areas of consultancy and income generated :** NA

21. **Faculty as members in a) National committees b) International Committees c) Editorial Boards….:** NA

22. **Student project**
    a) **Percentage of students who have done in-house projects including interdepartmental /program :** NA
    b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :** NA

23. **Awards / Recognitions received by faculty and students :** NIL

24. **List of eminent academicians and scientists / visitors to the department:** NA

25. **Seminars/ Conferences/Workshops organized & the source of funding**
    a) **National   b) International :** NA

26. **Student profile programme/course wise: 2015-16**

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBSc	1069	42	25	17	97.82
TYBSc	22	22	09	13	81.82

27. **Diversity of Students :** No students from other state

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? :** NIL

29. **Student progression:**

Student progression	Against % enrolled
UG to PG	25%
PG to Ph.D.	--
Ph.D. to Post-Doctoral	--

| Employed • Campus selection • Other than campus recruitment | -- |
| Entrepreneurship/Self-employment | -- |

30. Details of Infrastructural facilities
a) Library : Common Central Library with e-learning facility and Departmental Library
b) Internet facilities for Staff & Students: Library, Staff Common Room, Language Lab
c) Class rooms with ICT facility : Multi media room, Mini Audi,
d) Laboratories: NA

31. Number of students receiving financial assistance from college, university, government or other agencies : NIL

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts :

- Conduct special lectures on applied Mathematics
- Conduct special lectures for students who are weak in mathematics
- A bridge course in mathematics for Biotech students

33. Teaching methods adopted to improve student learning:
- Conduct tutorials for students in small batches
- Conduct seminar on given topic
- Problem solving sessions for students

34. Participation in Institutional Social Responsibility (ISR) and Extension activities: NIL

35. SWOC analysis of the department and Future plans:
- **Strength:**

   Having Mathematics subject in all faculties
- **Weakness:**

   Due to a number of adhoc appointments the department lack stability
- **Opportunities:**

   Mathematics being a multidisciplinary subject, the importance of mathematics is increasing
- **Challenges:**

   Managing all departmental activities, conduct practicals/tutorials without administrative staff

DEPARTMMENT OF PHYSICS

1. **Name of the department:** Physics

2. **Year of Establishment:** 1984

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):** UG, PG by research & Ph.D

4. **Names of Interdisciplinary courses and the departments/units involved :** NIL

5. **Annual/ semester/choice based credit system (programme wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments :** IT, Biotech, & Cosmetology

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts**

Teaching Post	Sanctioned		Filled	
	From 2012-2013 to 2015-2016	2016-2017	From 2012-2013 to 2015-2016	2016-2017
Professors	Nil	Nil	Nil	Nil
Asso, Professors	04	04	01	01
Assist. Professors	01	01	04	04

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc. / D.Litt. / Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided
Dr. Shubhangi Bhave	MSc, MPhil, DCST, LLB. PhD	HOD & Assoc. Prof and Vice Principal	Biophysics	33 Years	----
Dr. Suresh Kadam	MSc, MPhil, BEd, PhD	Asst Prof	Electronics	19 years	----
Dr. Shruti Barve	MSc, PhD	Asst Prof (Ad hoc)	Electronics	2 year	----
Ms Sheena Agarwal	MSc	Asst Prof (Ad hoc)	Electronics	1 year	----
Mr. Ashitosh Trigune	MSc	Asst Prof (Ad hoc)	Electronics	1 year	----
Dr K.G. Bhole	MSc, PhD, DHE	Assoc Prof (Retired on 31st Dec 2015)	Electronics	35 years	----
Mr. E.G. Ghatpande	MSc	Assoc Prof (Retired on 31st Mar 2016)	Solid State Physics	34 years	----
Dr Ms. S.A. Jain	MSc, PhD	Assoc Prof (Retired on 30th Jun 2016)	Theoretical Physics	29 years	----

11. List of senior visiting faculty: Since 2016 : Dr K G Bhole

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty : 60% Since July 2016

13. Student -Teacher Ratio (programme wise) :

Year	For FY BSC Student Teacher Ratio	For SY BSC Student Teacher Ratio	For TY BSC Student Teacher Ratio
2012-2013	61:5	49:5	13:5
2013-2014	66:5	50:5	12:5
2014-2015	89:5	48:5	21:5
2015-2016	55:5	61:5	22:5
2016-2017	72:5	36:5	16:5

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled :

Year	No of academic support staff		No of administrative staff	
	Sanctioned	Filled	Sanctioned	Filled
2012-2013	12	12	03	03
2013-2014	12	12	03	03
2014-2015 Onwards	12	11	03	03

15. Qualifications of teaching faculty with DSc / D.Litt / Ph.D / MPhil / PG. :

Name	Qualification
Dr. S. P. Bhave	MSc, MPhil, DCST, LLlB. PhD
Dr. S.N. Kadam	MSc, MPhil, BEd, PhD
Dr. S. A. Barve	MSc, PhD
Ms. S. M. Agarwal	MSc
Mr. AshitoshTrigune	MSc
Dr. K.G. Bhole (Up to December 2015)	MSc, PhD,DHE
Mr.E. G.Ghatpande(Up to March2016)	MSc
Dr. S.A. Jain(Up to June 2016)	MSc, PhD

16. Number of faculty with ongoing projects from a) National b) International, funding agencies and grants received : 01 Rs. 39,500

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : Nil

18. Research Centre /facility recognized by the University : M.Sc., & Ph.D.

19. Publications :

Faculty	A	b1	b2	c	d	E	f	g	h	i	J	k	l	m	N
Dr S P Bhave	01		01												
Dr S N Kadam	09	07				01		01							
Dr K G Bhole	07	01						06							
Dr E G Ghatpande	01							01							
Dr. S A Jain	01							01							

20. Areas of consultancy and income generated : NIL

21. **Faculty as members in a) National committees b) International Committees c) Editorial Boards:** All staff members have worked as Chairpersons /Members of various committees at University level.

22. **Student projects**
   a) **Percentage of students who have done in-house projects including inter departmental / programme :** 20%
   b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:** 10%

23. **Awards / Recognitions received by faculty and students**
   - Mr. Hemant Lagvankar won a very prestigious award at National level worth Rs 1 Lac, a certificate and a memento. The award is for his contribution as a science communicator in popularizing science
   - Mr. AakashWadhwani was awarded certificate at NGP Examination conducted by IAPT
   - Ms. Deepa Mourya stood first in consecutive two years certificate at NGP Examination conducted by IAPT.
   - Mr. Tejas More stood first in all India PG entrance of Pune University in June 2015

24. **List of eminent academicians and scientists / visitors to the department:**
   i) Prof. Kishor Kapale, Professor in the USA,
   ii) Mr. Hemant Lagvankar, a renowned   Science Communicator
   iii)Dr. Arnab Bhattacharya Professor at TIFR
   iv)Dr. Shiraj Minwala Professor at TIFR

25. **Seminars/ Conferences/Workshops organized & the source of funding**
   a) **National b) International :** Workshops were organized at university level; expenses were borne by college and participants

26. **Student profile programme/course wise: 2015-16**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBSc	1069	70			97.14
TYBSc		22	16	06	86.36

*M = Male   *F = Female

27. **Diversity of Students**

Name of the Course	%of students from the same state	%of students from other States	% of students from abroad
B.Sc.	99%	1%	Nil
M.Sc.	100%	Nil	Nil

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : 01**

29. **Student progression**

Student progression	Against % Enrolled
UG to PG	70
PG to M.Phil.	02
PG to Ph.D.	--
Ph.D. to Post-Doctoral	--
Employed • Campus selection • Other than campus recruitment	--
Entrepreneurship/Self-employment	--

30. Details of Infrastructural facilities

    a) Library: Four Shelves of Books for Departmental Library with more than 350 Books In addition Common Libraries and reading rooms are available to students

    b) Internet facilities for Staff & Students: Three dedicated computers with internet connections and one Laptop with internet connection.

    c) Class rooms with ICT facility: 01

    d) Laboratories: 02, One Dark room, One Research Laboratory

31. Number of students receiving financial assistance from college, university, government or other agencies : 01

32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts : Special lectures by alumni and eminent personalities, Visit to Research Institutions, Field visits, Science Exhibitions, Various skill development programs under star college scheme.

33. Teaching methods adopted to improve student learning

    i. Lectures supplemented with ppt.

    ii. Students exposed to On line NPTEL Lectures on Nuclear Physics, Quantum Physics and Classical Mechanics

    iii. Use of computers for calculations and drawing of graphs.

    iv. Use of computers for microprocessor simulations.

    v. Use of models, charts and demonstration kitsto explain theory.

    vi. Periodical tests to judge the learning outcome.

    vii. Students present certain topics with the help of ppt.

    viii. Students use internet resources and teachers provide different links

    ix. Encouraged to participate in exhibitions, poster presentations, summer courses

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

35. SWOC analysis of the department and Future plans

Strengths	• Well stocked and spacious laboratories. • A very good Teacher – Student rapport • Mentoring and counseling with positive results • NPTEL Video lectures screened regularly • Teachers with wide variety of specializations and interests hence good exposure to students of many fields • Departmental Library managed by students • Bridge or preparatory courses conducted every year • Organize study tours to institutes of national importance thus giving exposure to students and teachers alike • Student friendly and supportive non -teaching staff. • Active Whatsapp Group of ex students and ex Staff members
Weaknesses	• No tie up with any Institution or Industry • No patents • 3 out of 5 Teachers on temporary basis from AY 2016-17 • No student in University rank
Opportunities	• Build Strong alumni network for funding and placements for students. • Increase research activities in the department as Ph. D. center will be sanctioned and new teachers have joined • Visits to Industries employing concepts of Physics • With Grants under Star College Scheme, UG research will be higher
Challenges	• 3 out of 5 teachers on purely temporary basis from AY 2016-2017 Thus difficult to identify specific areas of research and develop infrastructures to suit the needs

Future Plans:

- Establishment of Industry Academics Interface.
- Interdisciplinary short term/ certificate courses.
- Expansion of research facilities.
- Submission of Major research project so as to support expansion and to attractgood researchers.
- Organization of a National level Seminar to strengthen research environment.

DEPARTMENET OF ZOOLOGY

1. **Name of the department :** Zoology

2. **Year of Establishment :** 1984

3. **Names of Program / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG, PG, Ph.D.

4. **Names of Interdisciplinary courses and the departments/units involved :** MSc Biotechnology

5. **Annual/ semester/choice based credit system (program wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments:** NA

7. **Courses in collaboration with other universities, industries, foreign Institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts :**

	Sanctioned	Filled
Professors	--	--
Associate Professors	01	01
Asst. Professors	03	03 Adhoc

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Dr. B. B. Sharma	MSc; MSc; PhD; DHE; FAZ;FZSI	Principal, Assoc Prof	Oceanography, Animal Physiology	35	04
Dr. V. R. Ragade	Msc, PhD	Asst Prof, HOD	Endocrinology, Fishery science	11	01 Proposal sent for approval
Mr. H. R. Rawool	MSc, Gate	Asst Prof (Ad-hoc)	Oceanography	03	------
Ms. P. J. Panaskar	MSc	Assit Prof (Ad-hoc)	Oceanography	02	------
Ms. S. C. Kushwaha	MSc, B.Ed	Asst Prof (Ad-hoc)	Animal Physiology	01	------
Dr. B P Hardikar (Retired)	MSc, MPhil, PhD	Assoc Prof	Entomology, Animal Physiology, Biotechnology	35	10
Dr. N S Kulkarni (Retired)	MSc, DHE, PhD	Assoc Prof	Animal Physiology	30	01
Dr Vinayak Koli (Resigned)	MSc, Bed, PhD	Asst Prof	Endocrinology	12	---------

11. **List of senior visiting faculty :** NIL

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** 66

13. Student -Teacher Ratio (programme wise) 26 : 1

Level	Faculty			No. of teachers	Student -Teacher Ratio
	Arts	Science	Commerce		
UG		160		05	3:125
PG		20		02	10:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:
   (Botany and Zoology together)

Year	No of academic support staff	No of academic support staff	No of administrative staff	No of administrative staff
	Sanctioned	Filled	Sanctioned	Filled
2012-2013	13	13	03	03
2013-2014	13	13	03	03
2014-2015 Onwards	13	12	03	03

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

S.No	NAME	Qualification
1.	Dr. B. B. Sharma (Principal)	MSc; MSc; PhD; DHE; FAZ; FZSI
2	Dr. V. R. Ragade (HOD)	MSc; PhD
3	Mr. H. R. Rawool	MSc; GATE
4	Ms. P. J. Panaskar	MSc
5	Ms. S. C. Kushwaha	MSc; B.Ed
6	Dr. Bhagyashree Hardikar(Retired)	MSc, MPhil, PhD
7	Dr. Neelima Kulkarni (Retired)	MSc, DHE, PhD
8	Dr. Vinayak Koli (Resigned)	MSc, BEd, PhD

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received : 01 Rs. 10,47,000/-

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : UGC total grant received Rs. 11,77,000/-

18. Research Centre /facility recognized by the University : NA

Research Center/facilit	Year of Establishment	Capacity	Registered students
M.Sc. Zoology Research and by Papers	1991 1991	4 10	Nil 10
Ph.D. in Zoology	1991	10	02

19. Publications :

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l	m
Dr. B. B. Sharma	01	01												
Dr. V. R. Ragade	06	06												
Mr. H. R. Rawool														
Ms. P. J. Panaskar														
Ms. S. C. Kushwaha														
Dr. B. P. Hardikar	05	04				01								
Dr. Neelima Kulkarni	02	02												
Dr. Vinayak Koli														

20. Areas of consultancy and income generated : NA

21. **Faculty as members in**
    a) National committees b) International Committees c) Editorial Boards….::
    Dr B B Sharma and Dr Vinod Ragade on editorial board of Bionanofrontiers

22. **Student projects**
    a) **Percentage of students who have done in-house projects including inter departmental/programme** : 01
    b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies** : NA

23. **Awards / Recognitions received by faculty and students** : NIL

24. **List of eminent academicians and scientists / visitors to the department:**

S.NO	Name of Speaker	Organization/Institute	Topic details
1	Dr. N.K. Sharma	BARC	Human Genetics
2	Dr. Parvish Pandya	Bhavan's College, Andheri	Wildlife
3	Mrs. M. Gholba	Bandodkar College, Thane	Biostatistics

25. **Seminars/ Conferences/Workshops organized & the source of funding a) National b) International** : NA

26. **Student profile programme/course wise: 2015-16**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled *M	Enrolled *F	Pass percentage
FYBSc	1069	68	21	47	100
TYBSc	40	22	17	20	

*M = Male   *F = Female

27. **Diversity of Students** : No students from other state

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?** : 03

29. **Student progression**

Student progression	Against % enrolled
UG to PG	25
PG to M.Phil.	NIL
PG to Ph.D.	01
Ph.D. to Post-Doctoral	NIL
Employed	50
• Campus selection	NIL
• Other than campus recruitment	50
Entrepreneurship/Self-employment	01

30. **Details of Infrastructural facilities**
    a) **Library** : Common Central Library with e-learning facility and Departmental Library
    b) **Internet facilities for Staff & Students:** Library, Staff Common Room, Within Deptt.
    c) **Class rooms with ICT facility** : Multi media room, Mini Audi,
    d) **Laboratories:** Separate laboratories for UG, PG, and Research

31. **Number of students receiving financial assistance from college, university, government or other agencies** : NIL

32. **Details on student enrichment programmes (special lectures / workshops / seminar) with external experts** : MTTS

33. **Teaching methods adopted to improve student learning :**
   - Along with conventional chalk board method of teaching PPT method is used.
   - Students exposed to learn about forest service by IFS, the alumni of the college
   - Use of internet to get more information on the subject
   - Use of charts in Zoology.
   - Presentation on various topics are organized for students
   - Students are inspired to participate in short term courses, field visit, like bird watching etc being organized

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities :**

35. **SWOC analysis of the department and Future plans :**
   - **Stregnth**
     Healthy teacher administration relations
     Efficient non teaching staff
     Department has various Minor and Major Research Project of UGC.
     Paper publications in national and international journals.
   - **Weaknesses**
     More staff on ad-hoc basis
   - **Opportunity**
     Excellent students in academic and research performance
     Students of MSc are skilled in field studies like ornithology, wild life etc. they can really enhance the honour of the department
   - **Challenges**
     To establish the animal house for further studies in Zoology
     Strengthening of academic and industrial tie-ups

V G Vaze College

DEPARTMENT OF ACCOUNTANCY

1. **Name of the department :-** Accountancy

2. **Year of Establishment :-** 1984

3. **Names of Program/ Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :-** UG, PG

4. **Names of Interdisciplinary courses and the departments/units involved :** Faculty are involved in taking lectures at M. Com level in the subject of Advanced Financial   Management and Cost Accounting.

5. **Annual/ semester/choice based credit system (program wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments :** M. COM

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :-** Conducted short term course in collaboration with Commerce Department.
    8 days course in Tally ERP 9 with Click2Tally (Authorized Agency)

8. **Details of courses/programmes discontinued (if any) with reasons :-** NA

9. **Number of Teaching posts:** 05

	Sanctioned	Filled
Professors	--	--
Associate Professors	02	02
Asst. Professors	03	01 + 01 PART TIME+ 01 Adhoc

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil.   etc.,)**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Mrs. Alka Kelkar	M.Com, INT. CA, PGDBA	Head & Assoc Prof	Accountancy & Financial Management incl. Cost, M. A. & Audit	28 years	--
CA Anil Naik	BCpm, FCA, DISA	Assoc Prof	Audit	28 years	--
CA J.B. Vaishampayan	BCom (Hons), LLB (GEN), FCA	Asst Prof	Audit	24 years	--
CA. Yogesh Manohar Sant	BCom, FCA	Asst Prof Part-time	Audit	24 Years	--
Ms. Shilpa Palande	MCom, M.Phil	Asst Prof Ad- hoc	Accountancy	10 years	--

11. **List of senior visiting faculty :** Mr. Nitin M. Kane retired Associate Professor   from the department is a visiting faculty in the subject of Taxation for M. Com.

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** 22%

13. **Student -Teacher Ratio (programme wise) :** UG-46:1, PG- 60:1

Level	Faculty	No. of teachers	Student -Teacher Ratio

	Arts	Science	Commerce		
UG			1440	4.5	46:1
PG			120	2	60:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :** NA

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. :**

Sr. No	Name	Qualification
1	Mrs. Alka Kelkar	M.Com, INT. CA, PGDBA
2	CA Anil Naik	BCpm, FCA, DISA
3	CA J.B. Vaishampayan	BCom(Hons), LLB(GEN), FCA
4	CA. Yogesh Manohar Sant	BCom, FCA
5	Ms. Shilpa Palande	MCom, M.Phil

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:-** NA

17. **Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received:** NA

18. **Research Centre /facility recognized by the University –**

19. **Publications :**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l	m
Ms. Alka Kelkar	06		04											02
CA Anil Naik	02		01											01
CA J.B. Vaishampayan														01
Ms. Shilpa Palande	03		01											02

20. **Areas of consultancy and income generated –** NA

21. **Faculty as members in**
   a) **National committees :** NA
   b) **International Committees:** NA
   c) **Editorial Boards :** NA

22. **Student projects**
   a) **Percentage of students who have done in-house projects including inter departmental/program:** NA
   b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies –** NA

23. **Awards / Recognitions received by faculty and students –**
   Prof Alka Kelkar is a member of Board of Studies of Chembur Education Society's Academy of Banking Education.

24. **List of eminent academicians and scientists / visitors to the department :-**

   All programs are conducted in co-ordination with Commerce Department.

Year	Name of Speaker	Topic
2012-13	Resource Person from Mulund CA Study Circle	How to Conduct Tax Audit
	Resource Person From Welingkar Institute of Management	Latest Interview Techniques

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2013-14	Mr. Mandar Bapat	Softwar Training Programme on use of Tally for Students of S.Y.B.Com
2014-15		
2015-16	Dr. Shanti Suresh	Judge & Guest Speaker for PPT Competition
	Mr. Mohan Tanksale	Chief Guest & Keynote speaker on EODB at National Conference.
	Prof. Vijayan Pankajkshan	Guest of Honour & Speaker on Behavioural & Academic Perspective on Make in India.
	Mr. M. K. Srinivasan	Chaired the Panel Discussion Session on Make in India at National Conference.
	Dr. Ramprakash Nair	Panelist at National Conference on Make in India at National Conference.(Research Guide, Practicing Advocate & Social Worker)
	Mr. Apurva Mehta	Panelist at National Conference on Make in India at National Conference. (Corporate Finance Specialist – Services Sector
	Mr. V. A. Walavalkar	Panelist at National Conference on Make in India at National Conference. (Professor & Environmentalist)
	Dr. Rajagopalan	Resource person for technical session at National Conference.
	Mrs. Seethalakhmi	Resource person for technical session at National Conference.
	Mrs. Seema Malankar	Resource person for technical session at National Conference.
	CA Nikhilesh Soman	Investor Awareness & Investor Psychology
	Mrs. Sucheta Dalal & Mr. Debashis Basu	How to be safe & smart with your money
2016-17	Mr. Hussain T. Sabuwala	Guest Speaker on Communication & Motivation
	Mr. Atul Khirwadkar	Guest Speaker on Banking- Career & Opportunities
	Mr. Mandar Bapat	Short term course in E-Learning Lab on Tally ERP 9 in association with Click2Tally.
	Mr. Deepak Ukidave	Short term course in Commerce Lab on Financial Skills Development.

25. **Seminars/ Conferences/Workshops organized & the source of funding**
   a) **National** – 1 (applied to UGC for Grant) b) **International** - Nil

26. **Student profile programme/course wise:** (2015-16)

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBSCom	2635	493	218	275	90
TYBCom		451	167	284	98.71

*M = Male   *F = Female

27. **Diversity of Students :** No Students from other states

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : NA**

29. Student progression

Student progression	Against % enrolled
UG to Professional	80
UG to PG	10
PG to M.Phil.	01
PG to Ph.D.	01
Ph.D. to Post-Doctoral	01
Employed • Campus selection • Other than campus recruitment	 10 40
Entrepreneurship/Self-employment	10

30. Details of Infrastructural facilities

    a) Library :-
- Main library and reading section,
- self financing reading room,
- E-learning library,
- PGDPCM Library
- Open Access, E-Resources, Access to Journal & Periodicals,
- Common Seating along with other faculty – 200 students

    b) Internet facilities for Staff & Students :- Yes.
- 2 Computers for Students,(in the library)
- 2 Computers for staff (In staff room)
- Internet facility in Commerce Lab

    c) Class rooms with ICT facility :-
- Multimedia room,
- Mini Auditorium on the First Floor.

    d) Laboratories :-
- Commerce Lab

31. Number of students receiving financial assistance from college, university, government or other agencies :-
- Reserve category students – concession in fees as per university rules
- In-house – book bank facilities etc.

32. Details on student enrichment programs (special lectures / workshops / seminar) with external experts :-
- Setting up and inauguration of the commerce lab.
- Financial Skill development courses in the Commerce Lab under the aegis of G. D. Kelkar Skill Development Centre and Finishing School.
- Talk on How to be smart and safe with your money by Ms. Sucheta Dalal and Mr. Debashis Basu, renowned business journalists on 23rd July, 2015 in co-ordination with Money Life Foundation.
- Investors awareness programe by Mr. Nikhilesh Soman.
- Computerized accounting software training programme (use of tally) for the students of S.Y.B.COM.
- "How to conduct tax audit " for T.Y.B.Com students jointly with the Mulund CA Study Circle.
- Industrial visit to Manchar, Pune Go-Cheese factory for students of B. Com.

33. Teaching methods adopted to improve student learning : Chalk and Duster Method is the best for our subject. It is complemented by use of case studies and published financial statements as and when required.

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities:** NIL

35. **SWOC analysis of the department and Future plans:**

Strengths :-
- Professionally qualified faculty
- Good Results
- Well equipped library and commerce lab.
- Professionals offer consultancy in areas of taxation and company law matters beyond college hours.

Weaknesses :-
- Less number of vocational certified courses
- Limited interaction with industry
- Limited alumni interaction

Opportunities :-
- Tie-Ups with Industry and foreign universities.
- Increase the number of industrial visits
- Increase alumni linkage

Challenges :-
- Students pursue professional courses along with their graduation degree which has affected participation and attendance in class.
- Difficult to give personal attention.
- Competition from private institutions.
- Due to large number of students, it is a challenge to complete evaluation and assessments on time.

Future Plans :-
- To improve remedial coaching for improving the results.
- To introduce more add-on-courses.
- To adopt practical based teaching-learning process.
- To increase industry-academic interface through guest lectures.
- To initiate measures towards departmental social responsibility.

DEPARTMENT OF BUSINESS ECONOMICS

1. **Name of the department :** Business Economics

2. **Year of Establishment:** 1986

3. **Names of Program / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG

4. **Names of Interdisciplinary courses and the departments / units involved:** NA

5. **Annual / semester/choice based credit system (program wise):** CBSGS

6. **Participation of the department in the courses offered by other departments:** NA

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NIL

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts :** 02

	Sanctioned	Filled
Professors	--	--
Associate Professors	--	--
Asst. Professors	02	01+ 01 Adhoc

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. / Ph.D. / M.Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Dr.V.Kurusu	MA, BEd. M.Phil, Ph;D PGDPS LL.B; MBA(HR)	Assoc. Prof. and Head	Health Economics	26	
Ms.Vibhuti Gunjal	M.A	Asst. Prof.	Micro Economics	02	

11. **List of senior visiting faculty :** NIL

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** 26

13. **Student-Teacher Ratio (programme wise) :** 122:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled:** NIL

15. **Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.:**

S.No	Name	Qualification
1	Dr. V Kurusu	MA, BEd. M.Phil, Ph;D PGDPS LL.B; MBA(HR)
2	Ms Vibhuti Gunjaal	M.A.;

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:** NIL

17. **Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received:** NIL

18. **Research Centre/facility recognized by the University :** NA

19. **Publications :**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l	m
Dr. V Kurusu														
Ms Vibhuti Gunjaal	06	01	05											

20. **Areas of consultancy and income generated :** NIL
21. **Faculty as members in**
    a) **National committees :** NIL
    b) **International Committees :** NIL
    c) **Editorial Boards:** 03

22. **Student projects**
    a) **Percentage of students who have done in-house projects including interdepartmental / programme :** NIL
    b) **Percentage of students placed for projects in organizations outside the in stitution i.e. in Research laboratories / Industry / other agencies :** NIL

23. **Awards/Recognitions received by faculty and students :** NIL

24. **List of eminent academicians and scientists / visitors to the department:** NIL

25. **Seminars/Conferences/Workshops organized & the source of funding :**
    a) **National:** NIL
    b) **International :** NIL

26. **Student profile programme / coursewise : 2015-16**

Name of the Course/programme	Applications received	Selected	Enrolled *M	Enrolled *F	Pass percentage
FYBCom	2653	493	218	275	93.4
TYBCom		451	167	285	92.34

*M=Male *F=Female

27. **Diversity of Student:** No students from other states

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.:** NIL

29. **Student progression :**

Student progression	Against % enrolled
UG to PG	13
PG to M.Phil.	0.5
PG to Ph.D.	01
Ph.D. to Post-Doctoral	0.5
Employed • Campus selection • Other than campus recruitment	73
Entrepreneurship/Self-employment	32

30. **Details of Infrastructural facilities**
    a) Library : Common Central Library with e-learning facility and Departmental Library
    b) Internet facilities for Staff & Students: Library, Staff Common Room, Language Laboratory
    c) Class rooms with ICT facility : Multi media room, Mini Audi,
    d) Laboratories: Language Laboratory, e Learning lab

31. **Number of students receiving financial assistance from college, university, government or other agencies :** NILL

32. **Details on student enrichment program(special lectures/workshops/seminar) with external**
    experts : NILL

33. **Teaching methods adopted to improve student learning :**

- Use of social media for quick and effective dissemination of information
- Effective use of Web 2.0 tools in teaching
- Use of online libraries such as INFLIBNET and American Library
- Use of audio-visual text to facilitate and enhance literary studies
- Student- Alumni Interface
- Student seminars and presentations
- Remedial teaching
- Screening of films
- Group Discussion
- Role Play

34. **Participation in Institutional Social Responsibility(ISR) and Extension activities**

35. **SWOC analysis of the department and Future plans :**
    Strength
- Diverse specializations
- Motivated faculty
- Versatile interests

    Weakness
- Large classes
- Infrastructural lacunae
- Dated syllabi

    Opportunities
- English is the language of opportunity in society
- Emerging career options with English as an option

    Challenges
- Mixed ability multi level classes

    Future Plans:
- Conduct skill development programs to enhance English skills using the Language Laboratory
- Conduct soft skill courses for students
- Prepare students for TOEFL and the English components of GRE, GMAT and other competitive
- examinations
- NET/SET training

![V G Vaze College logo] **V G Vaze College**

DEPARTMENT OF BUSINESS LAW

1. **Name of the department :** Department of Business Law

2. **Year of Establishment :** 1985

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated -UG Masters; Integrated Ph.D., etc.) :** UG

4. **Names of Interdisciplinary courses and the departments/units involved :** FC

5. **Annual/ semester/choice based credit system (programme wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments:** NA

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts:** 01

	Sanctioned	Filled
Professors	-----	----
Associate Professors	**01**	**01**
Asst. Professors	-----	----

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M.Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Mrs. Matangi Iyer	BCOM, LLM, SET (LAW)	Associate Professor	Group IV-Commercial Law and Group VIII -Law of Crimes	26 years	-----

11. **List of senior visiting faculty :** N.A.

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** NIL

13. **Student -Teacher Ratio (programme wise) :** 120:1 (for each of 6 divisions)

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :** N.A.

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

S.No	NAME	Qualification
1	Matangi Iyer	B.Com, LLM, SET

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** NIL

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :** NA

18. **Research Centre /facility recognized by the University :** NA

19. **Publications:** NA

20. **Areas of consultancy and income generated :** NA

21. **Faculty as members in a) National committees b) International Committees c) Editorial Boards…**   NA

22. **Student projects :**
    a) **Percentage of students who have done in-house projects including   inter departmental/programme :** N.A.
    b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :** NA

23. **Awards / Recognitions received by faculty and students :** N.A.

24. **List of eminent academicians and scientists / visitors to the department :** NA

25. **Seminars/ Conferences/Workshops organized & the source of funding**
    a) **National :** 01
    b) **International :** NIL

26. **Student profile programme/course wise:**   **2015-16**

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
SYBCom		499	193	256	

*M = Male   *F = Female

27. **Diversity of Students :** No students from other states

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?:** N.A.

29. **Student progression:** The course is offered at Second Year level only

30. **Details of Infrastructural facilities**
    a) **Library**
       Common Library, reading hall, self financing and e-library.
       Need based with textbooks, reference books, company lajournals, bare acts, case studies are made available to students.
    b) **Internet facilities for Staff & Students –**
       Staff common room and library.
    c) **Class rooms with ICT facility –**
       Multimedia room and mini auditorium
    d) **Laboratories –** Commerce laboratory

31. **Number of students receiving financial assistance from college, university, government or other agencies**

32. **Details on student enrichment programmes (special lectures / workshops / seminar) with external experts – UPSC lectures on law and remedial coaching**

33. **Teaching methods adopted to improve student learning**
    The pronunciation of the act is taught, verbatim. Thereafter the legal terms are explained and their interpretations as dealt with in various case laws are brought out. After teaching, further deliberations are called from the students by way of discussions , short questions.
    Understanding of the subject by the students is followed up sometimes by surprise test, question answer sessions and presentations by students etc.

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities:** NA

35. **SWOC analysis of the department and Future plans**
    1. Subject of Business Law is a compulsory subject for the UG commerce students at second year level. It's a very important subject for the students of commerce, as it helps them to gain knowledge of the various legal aspects of the business. This is an application of law to

business and commerce. As business Law is a wide term which includes several laws that affect mercantile transactions.

2. With economic liberalisation and globalisation, law has become a cross –disciplinary subject. Students from all disciplines need to have a basic understanding of Business Laws and court interpretations on laws like contract act, Companies Act, IPR Act, Consumer Protection Act etc.

3. This subject opens the gate to give a fair introduction to the commerce students aspiring to get into professional courses like Chartered Accountancy, Cost Accountancy or Company Secretary, Law Graduation etc.

4. B. Law is a One man department and the teacher-student ratio is 1:120 (6 divisions).

5. Lectures are conducted regularly and remedial coaching is also conducted as per the requirement. Guidance can be offered only to those students who personally approach the teacher.

6. Future plans are :
   i. Arrange for talks on legal issues relevant to syllabus by legal experts / practitioners
   ii.Form groups and bring exposures for live proceedings in courts of law.

Plans for Improvement –
   1.Use of electronic aids
   2.Presentation of materials
   3.Use of latest case laws
   4.Emerging trends in business law

DEPARTMENT OF COMMERCE

1. **Name of the department :** Commerce

2. **Year of Establishment :** 1984

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

4. **Names of Interdisciplinary courses and the departments/units involved :** M.Com., PGDPCM

5. **Annual/ semester/choice based credit system (programme wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments :** M.Com., PGDPCM

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons:** NA

9. **Number of Teaching posts :**

	Sanctioned	Filled
Professors	--	--
Associate Professors	02	02
Asst. Professors	01	1 (adhoc)

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc. / D.Litt. / Ph.D. / M. Phil. etc.,) :**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Mrs. Chitra Subramaniam	MCom, MPhil	Assoc Prof	Banking	28 years	28
Dr. Adhir V. Ambavane	MCom, MPhil, MBA, LLB, PhD(HRM)	Assoc Prof	HRM	24 YEARS	26
Mr. Manoj A. Sangare	MCom, NET, SET, MPhil	Asst Prof	HRM & Export Marketing	10 years	03

11. **List of senior visiting faculty :** NIL

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** 33%

13. **Student -Teacher Ratio (programme wise):** UG-96:1, PG- 60:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :** NIL

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

Sr. No	Name	Qualification
1.	Mrs. Chitra Subramaniam	MCom, MPhil
2.	Dr. Adhir Vasant Ambavane	MCom, MPhil, MBA, LLB, PhD(HRM)
3.	Mr. Manoj Arjun Sangare	MCom, NET, SET, MPhil

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** NIL

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :** NIL

18. **Research Centre /facility recognized by the University :** NA

19. Publications :

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l	M
Dr. Adhir Ambavane	03	01	02											
Mr. Manoj Sangare	03		03											

20. **Areas of consultancy and income generated :** NA

21. **Faculty as members in a) National committees b) International Committees c) Editorial Boards :** NA

22. **Student projects**
    a) Percentage of students who have done in-house projects including inter departmental/programme : NA
    b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : NA

23. **Awards / Recognitions received by faculty and students :** NIL

24. **List of eminent academicians and scientists / visitors to the department :** ?

25. **Seminars/ Conferences/Workshops organized & the source of funding**
    a) National : 01 / RSs.1,36,000/- SPONSORSHIP & APPLIED TO UGC
    b) International: NIL

26. **Student profile programme/course wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBCom	2635	493	218	275	90
TYBCom		451	167	284	98.71

*M = Male   *F = Female

27. **Diversity of Students :** 100 % Students from Maharashtra

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. :** 01%

29. **Student progression**

Student progression	Against % enrolled
UG to PG	**80**
PG to M.Phil.	**10**
PG to Ph.D.	**01**
Ph.D. to Post-Doctoral	**01**
Employed • Campus selection • Other than campus recruitment	10 40
Entrepreneurship/Self-employment	**10**

30. Details of Infrastructural facilities
    a) Library : Common Central Library with e-learning facility and Departmental Library
    b) Internet facilities for Staff & Students: Library, Staff Common Room, Language Laboratory
    c) Class rooms with ICT facility : Multi media room, Mini Audi,
    d) Laboratories: Commerce Laboratory

31. Number of students receiving financial assistance from college, university government or other agencies : Reserve Category Students are given fees concession and in-house, Book Bank Facility

32. Details on student enrichment programmes (special lectures /workshops / seminar) with external experts : Yes

33. Teaching methods adopted to improve student learning : PPT, GD, Case Study, Student Presentation, Role Play, Management Games

34. Participation in Institutional Social Responsibility (ISR) and Extension activities :

35. SWOC analysis of the department and Future plans:

STRENGTHS	WEAKNESSES
- Qualified faculty - Committed & experienced, motivated faculty. - Disciplined vibrant, creative and enthusiastic student. - Sophisticated infrastructural facilities - Transparent Admission process - Good Results (Pass percentage Higher than University) - Supportive management - Well equipped library, commerce lab and qualified support staff.	- Less number of vocational / certificate courses - Lack of consultancy services
OPPORTUNITIES	**CHALLENGES**
- Opportunities in Professional progression and extension activities like consultancy. - Tie-ups with foreign Universities / Industry / Institution.	- Difficulties in updating the syllabi in the affiliated system - Difficult to give personal attention - Majority of good students are pursuing other professional courses simultaneously which affect their active participation in the class. - Heterogeneous Quality of students. - Increase in Administrative burden as a result of decentralization by University and ban on appointments by Government. - Competition from other private institutions.

DEPARTMENT OF ENVIRONMENTAL STUDIES

1. **Name of the department :** Environmental Studies

2. **Year of Establishment :** 1984

3. **Names of Program / Courses offered (UG, PG, M.Phil., Ph.D., Masters; Integrated Ph.D., etc.) :** UG (Environmental Studies for FYBCOM)

4. **Names of Interdisciplinary courses and the departments/units involved:** NIL

5. **Annual/ semester/choice based credit system (programme wise):** CBSGS

6. **Participation of the department in the courses offered by other departments** Foundation Course II -- SYBCOM, SYBA

7. **Courses in collaboration with other universities, industries, foreign institutions, etc :**   NIL

8. **Details of courses/programmes discontinued (if any) with reasons:** NIL

9. **Number of Teaching posts :** 01

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,) :**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Ms. Shirisha N. Gupte	M.A., SET	Asst. Prof	Geography	21	--

11. **List of senior visiting faculty :**   NIL

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :**   NIL

13. **Student -Teacher Ratio (programme wise) :** 1:120

14. **Number of academic support staff (technical) and administrative staff; sanction and filled :** NIL

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. :**

S.No	NAME	Qualification
1	Mrs Shirisha Gupte	MA, SET

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :**   NIL

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :**   NIL

18. **Research Centre /facility recognized by the University :**   NA

19. **Publications :**

Faculty	a	b	c	d	e	f	g	h	i	j	k	l	m
Ms. Shirisha Gupte					02								

20. **Areas of consultancy and income generated :**   -Mrs S. Gupte delivers guest lectures for the school children in Thane upon Environmental awareness and Waste Management.

21. **Faculty as members in**
    a) National committees b) International Committees c) Editorial Boards : NIL

22. **Student projects**
    a) **Percentage of students who have done in-house projects including inter departmental/programme:** Students of various degree classes participate in different project activities at college level such as working projects, poster presentation , projects presentations during the intercollegiate events etc.
    b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies** : Students participate in the tree plantation drive in the neatby locations (in association with the local NGOs)

23. **Awards / Recognitions received by faculty and students :** NIL
24. **List of eminent academicians and scientists / visitors to the department**
    1. Mr. Ruturaj Joshi (Naturalist)
    2. Mr. Vikram Darve (
    3. Dr. Geeta Ghanashyamani
    4. Thomas Cook Ltd

25. **Seminars/ Conferences/Workshops organized & the source of funding**
    a) **National :** 03 (member organizing committee)
b) **International :** NIL

26. **Student profile programme/course wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBCom	2635	493	218	275	84.83

*M = Male   *F = Female

27. **Diversity of Students :** No students form other states

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? :** NA

29. **Student progression :** N.A. As the department is not involved in Third Year Degree teaching, the student s of the department progress from FY to Sy and Sy to TY.

30. **Details of Infrastructural facilities**
    a) **Library :** Common Central Library with e-learning facility and Departmental Library
    b) **Internet facilities for Staff & Students:** Library, Staff Common Room, Language Lab
    c) **Class rooms with ICT facility :** Multi media room, Mini Audi,
    d) **Laboratories:** Language Laboratory, e Learning lab

31. **Number of students receiving financial assistance from college, university, government or other agencies :** NIL

32. **Details on student enrichment programs (special lectures / workshops / seminar) with external experts**
    - A guest lecture by Career Vision Academy on Tourism Administration and Career in Aviation in September 2012.
    - A guest lecture by Ruturaj Joshi – naturalist and NGO on Biodiversity conservation and Green Careers on 4th September 2013.
    - Broadcast of an online lecture of an active environmentalist Dr. Vandana Shiva from EYES lecture series conducted by University of Mumba in September 2014.
    - A guest lecture and demonstration by Dr. Geeta Ghanashyamani , NGO on Techniques of Waste Management in Augst 2015.
    - 5. The department organized Seminars conducted Thomas Cook India to introduce a Joint Certification Programme in Tourism management.

33. **Teaching methods adopted to improve student learning**
    - Use of map books and work books

- To give synopsis of every topic in the beginning of teaching
- Discussions with students held in each topic taught to the students
- Periodic short tests
- Presentation of the selected topics done by the students
- Case studies discussions in each topic
- Encouraging the students to use internet resources related to the subject
- Remedial lectures for the weaker students
- Giving model answers and correcting practice answers written by the students
- Motivating the students to actually follow enviromentally   sound lifestyle while they learn the subject in the class room.

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities**
   Paticipation in Tree Plantation drive held at Rabale, Navi Mumbai

35. **SWOC analysis of the department and Future plans**
   Strength
- The subject of Environmental Studies has a current international relevance in terms of greater environmental awareness world wide.
   Weakness:
- The subject is onlyat First Year level
   Opportunities:
- EM can be taken up by the students to specialize in their higher studies.
- Short term courses in Green Career, Renewable Energy, Waste Management and Rain Water Harvesting
- Sensitize students towards environmental ethics
   Challenges_
- Due to large student strength, it becomes difficult to pay individual attention towards students.
   Future plans-
- Involve students actively in various environmentally related activities such as waste management and plantations.
- To have collaborations with the local NGOs .
- It is also planned to develop and design short term courses.

DEPARTMENT OF BIOTECHNOLOGY

1. Name of the department :   Biotechnology

2. Year of Establishment: 1994

3. Names of Programmes / Courses offered : B.Sc., M.Sc.(By Papers and Research), Ph.D.

4. Names of Interdisciplinary courses and the departments / units involved: Botany, Zoology, Chemistry.

5. Annual / semester/choice based credit system (programme wise): CBSGS

6. Participation of the department in the courses offered by other departments: PGDPCM

7. Courses in collaboration with other universities, industries, foreign institutions, etc. Nil

8. Details of courses/programmes discontinued (if any) with reasons :   NA

9. Number of Teaching posts : 05

	Sanctioned	Filled
Professors	--	--
Associate Professors		--
Asst. Professors	05	05

10. Faculty profile with name, qualification, designation, specialization

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Dr. Deepali Karkhanis	M.Sc., NET, Ph.D.	Asst. Prof. (HOD)	Microbiology	14 years	--
Ms. Neha Joglekar	M.Sc.	Asst. Prof. (Ad-hoc)	Palynology	6 years	--
Dr. Amit Breed	M.Sc.,Ph.D.	Asst. Prof. (Ad-hoc)	Physiology	7 years	--
Dr. Shruti Baadkar	M.Sc.,Ph.D.	Asst. Prof (Ad-hoc)	Biotechnology	2 years	--
Dr. Tanuja Tirodkar	M.Sc.,Ph.D.	Asst. Prof (Ad-hoc)	Animal Physiology	11 years	--

11. List of senior visiting faculty :

DR B B Sharma	Dr Alka Kolhatkar
Dr K G Bhole	Dr Ajit Kengar
Dr Vandana Panse	Dr Ashok Awale
Dr S P Bhave	Dr Suresh Shendge
Dr S S Barve	Dr Paresh More
Dr G G Pusalkar	Dr. Vaidehi Limaye
Dr Lakshmi Ravishankar	Dr. Shailesh Sonar
Dr M A Deodhar	Dr. Kshitij Satardekar
Dr S L Dhuri	Mr.Lalit Samant
	Mr. Kapil Punjabi

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty : About 80 %

13. Student-Teacher Ratio (programme wise) : UG 22:1, PG 8:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: 01

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.: Refer to (10) above

S.No	Name	Qualification
1	Dr Deepali Karkhanis	M.Sc., NET, Ph.D.
2	Ms. Neha Joglekar	M.Sc.
3	Dr. Amit Breed	M.Sc.,Ph.D.
4	Dr. Shruti Baadkar	M.Sc.,Ph.D.
5	Dr. Tanuja Tirodkar	M.Sc.,Ph.D.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and   grants received:

17. Departmental projects funded by DST-FIST;UGC, DBT, ICSSR, etc. and total grants received:
   03 completed and 01 ongoing Funded by Unilever Rs. 15,00,000.00 per project

18. Research Centre/facility recognized by the University : .

Year of Establishment	2005 (MSc) / 2009 (PhD)
Capacity	10
Registered students	07 (PhD)

19. Publications :

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l	m	n
Dr. Deepali Karkhanis															
Ms. Neha Joglekar	01		01												
Dr. Amit Breed	01	01													
Dr. Shruti Baadkar	02	02													
Dr. Tanuja Tirodkar															

20. Areas of consultancy and income generated :

Name of teacher	Nature of consultancy
Dr.B.B. Sharma	Cultivation and Buy-back
Dr. S.S. Barve	Cultivation and Buy-back, BIS and ISO Consultant
Dr. Deepali Karkhanis	Principal Investigator in Industrial Research Projects
Dr. Amit Breed	Water management projects

21. Faculty as members in
   a) **National committees : 2**
   b) **International Committees : 2**
   c) **Editorial Boards: 2**

22. Student projects
   a) **Percentage of students who have done in-house projects including interdepartmental / programme :**   100% as a part of their Curriculum
   b) **Percentage of students placed for projects in organizations outside the in stitution i.e. in Research laboratories / Industry / other agencies :** 60%

23. Awards/Recognitions received by faculty and students:
   - Dr. S.S. Barve recipient of IIGP DST- Lockheed Martin Innovation Scientist Award

- Dr. Shruti Baadkar invited to act as a Reviewer for International Journals- Clinical Biochemistry and Annals of Human Biology.
- Ms Revati Dewal University Rank 3rd at TYBSc (2012)

24. List of eminent academicians and scientists / visitors to the department:
- Dr. Justin McCarthy, UCC Ireland.
- Dr. Tejas Gupte, TIFR
- Dr. Narendra Sharma BARC
- Dr. Jyoti Ramchandani Dept. of Life Sciences Univ. of Mumbai
- Dr. Vaidehi Limaye Univ. of Munich

25. Seminars/Conferences/Workshops organized & the source of funding :
a) National:

Year	Title of conference/ workshop	Level	Funding
2012-13	National Symposium on Emerging Trends in Life and material Sciences: Mission mankind	National	UGC
2013-14	37th All India Conference of The Indian Botanical Society	National	Indian Botanical Society
	Credit Based Semester System for M.Sc Biotechnology	University College	Self generated
2014-15	Workshop on S.Y.B.Sc. Biotechnology Revised Syllabus.	University College	Self generated
2015-16	Workshop on Restructured F.Y.B.Sc. Biotechnology Syllabus	University College	Self generated

b) International : NIL

26. Student profile programme / coursewise :(2015-16)

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBT	655	33	05	28	87.87
TYBT	40	25	02	23	100
MSc BT		20	04	16	95

*M=Male *F=Female

27. Diversity of Students : No students from other state

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : 60%

29. Student progression :

Student progression	Against % enrolled
UG to PG	95
PG to M.Phil.	--
PG to Ph.D.	20
Ph.D. to Post-Doctoral	--
Employed • Campus selection • Other than campus recruitment	100 100
Entrepreneurship/Self-employment	--

30. Details of Infrastructural facilities
a) Library : Common Central Library with e-learning facility and Departmental Library

b) Internet facilities for Staff & Students: Library, Staff Common Room, Language Lab

c) Class rooms with ICT facility : Multi media room, Mini Audi,

d) Laboratories: Separate laboratories for UG, PG, and Research

31. **Number of students receiving financial assistance from college, university, government or other agencies :** NA

32. **Details on student enrichment programmes (special lectures/workshops/ seminar) with external experts :** NIL

33. **Teaching methods adopted to improve student learning :**
    - Use of social media for quick and effective dissemination of information
    - Effective use of Web 2.0 tools in teaching
    - Use of online libraries
    - Student- Alumni Interface
    - Student seminars and presentations

34. **Participation in Institutional Social Responsibility(ISR) and Extension activities**

35. **SWOC analysis of the department and Future plans :**
    Strength
    - Diverse specializations of faculty.
    - Motivated faculty
    - State of art infrastructure

    Weakness

    Opportunities
    - Hands on training for students at SRC which serves as Academic Industry interface.

    Challenges
    - Improve student placement
    - Student placement

    Future Plans:
    - Weekend courses for students.
    - Improve placement facilities for students .
    - Prepare students for competitive examinations
    - NET/SET training

DEPARTMENT OF INFORMATION TECHNOLOGY

1. **Name of the department :** Information Technology

2. **Year of Establishment :**   2000

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :**   UG & PG

4. **Names of Interdisciplinary courses and the departments/units involved:** NA

5. **Annual/ semester/choice based credit system (programme wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments:** NA

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts**

	Sanctioned	Filled
Professors	--	--
Associate Professors	--	--
Asst. Professors	05	--

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	No. of Years of Experience
Dr Shubhangi Bhave	M.Sc, MPhil,LLB PhD	Course Coordinator	33
Ms. Pournima P. Bhangale	M.Sc. - CS, M.Phil - IT, UGC-NET,MHT-SET	Asst. Professor	16
Ms. Rakhee D. Rane	M.Sc.- CS, M. Phil - IT	Asst. Professor	13
Ms. Vandana Y. Kadam	M.Sc. - CS, M. Phil - IT	Asst. Professor	14
Ms. Nanda A. Rupnar	M.Sc.- CS	Asst. Professor	4
Ms. Mohini Bhole.	B. E. - Computer	Asst. Professor	3
Ms. Pranali Pawar	M.Sc.- IT		1

11. **List of senior visiting faculty:**
    Prof, Sali Mathew (Mathematics)
    Prof. Shyam Choutani (communication Skills)

12. **Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty:** 40%

13. **Student -Teacher Ratio (programme wise)**
    B.Sc. Information Technology : 36:1
    M.Sc. Information Technology : 10:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :**

	Sanctioned	Filled
Technical	1	1
Support Staff	3	3
Administrative staff	7	7

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

Name	Qualification

Smt. Pournima P. Bhangale	M.Sc. CS, M. Phil IT, UGC-NET, MHT-SET
Smt. Rakhee D. Rane	M.Sc. CS, M. Phil IT
Smt. Vandana Y. Kadam	M.Sc. CS, M. Phil IT
Smt. Nanda A. Rupnar	M.Sc. CS,
Ms. Pranali Pawar	M.Sc. IT,

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:** NA

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :** NA

18. **Research Centre / facility recognized by the University :** NA

19. **Publications:** NIL

20. **Areas of consultancy and income generated :** NA

21. **Faculty as members in**
    a) National committees : NA
    b) International Committees : NA
    c) Editorial Boards…. : NA

22. **Student projects**
    a) Percentage of students who have done in-house projects including inter departmental/programme : 5%
    b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : NA

23. **Awards / Recognitions received by faculty and students :** NIL

24. **List of eminent academicians and scientists / visitors to the department :** NIL

25. **Seminars/ Conferences/Workshops organized & the source of funding**
    a) National b) International : NA

26. **Student profile programme/course wise:**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYIT	655	106			
TYIT	40	53	21	32	79.25

*M = Male   *F = Female

27. **Diversity of Students :** No students from other states

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? :** 01

29. **Student progression:**

Student progression	Against % enrolled
UG to PG	25%
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL
Employed • Campus selection • Other than campus recruitment	NIL
Entrepreneurship/Self-employment	NIL

30. Details of Infrastructural facilities
   a) **Library**
   b) **Internet facilities for Staff & Students :** Two machnines per lab
   c) **Class rooms with ICT facility :** NA
   d) **Laboratories**

Name	No of Machines	Printers	Projector
LAB I	43	2	1
LAB II	36	1	2 (one Movable)
E-Learning LAB	28	-	-

31. Number of students receiving financial assistance from college, university, government or other agencies : NA

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts :
   - Mrunalini Pandit
   - Franklin Patrao
   - Ravindra Jadhav
   - Rajas
   - Meenkashi Satkar
   - Taha Tikiwala
   - Akshata Pachaka

33. Teaching methods adopted to improve student learning :
   - Use of ICT
   - Use of Ebook
   - Use of Powerpoint Presentation
   - Use of demonstrative videos
   - Demonstration of electronics practicals using Kits as well as simulators

34. Participation in Institutional Social Responsibility (ISR) and Extension activities : NA

35. SWOC analysis of the department and Future plans:
Strength:
   - High success rates in examinations as compared to University results
   - Optimum utilization of resources
   - Teaching aids for ICT enabled teaching
   - Teachers firmly believe in lifelong learning
   - Harmonious relationship among the staff, students and parents
   - Illustrious faculty, student-centered teaching
   - Integration of teaching and research
   - Student feedback analyzed and used for improvement in all processes
   - Student-friendly services
   - Eco-friendly study environment.
   - Use of social media –WhatApp for communication and doubt solving upto certain level
   - Vaze college group on facebook
   - E-library containing books and soft-wares is developed to be used by students and teachers.
   - Started with co-curricular and extra-curricular activities
Weakness:
   - Due to the economic background of students and the lack of time available to them, limitation on implementing of value added courses
   - Diverse student community Lack of time for the teachers for research work

 V G Vaze College

DEPARTMENT OF MASS MEDIA

1. **Name of the department :** Mass Media

2. **Year of Establishment :** 2001

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG,

4. **Names of Interdisciplinary courses and the departments/units involved :** NA

5. **Annual/ semester/choice based credit system (programme wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments:** HISTORY

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts :**

	Sanctioned	Filled
Professors	--	--
Associate Professors	--	--
Asst. Professors	03	02

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years Experience	No. of Ph.D. Students guided for the last 4 years
Shyam Choithani	MPhil, UGC-NET	Asst. Prof.	English Literature	10	--
Prathamesh Karle	MA PGD International Studies	Asst. Prof.	International Relations, History	05	--

11. **List of senior visiting faculty :** 05

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** (4 lect /week/faculty)

13. **Student -Teacher Ratio (programme wise):** 14:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned   and filled :** NA

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

S.No	NAME	Qualification
1.	Shyam Choithani	MPhil, UGC-NET
2	Prathamesh Karle	M.A. PGD International Studies

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** NA

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :** NIL

18. **Research Centre /facility recognized by the University :** NA

19. **Publications :**   NIL

20. **Areas of consultancy and income generated :** NA

21. Faculty as members in a) National committees b) International Committees c) Editorial Boards….: NA

22. Student projects
   a) Percentage of students who have done in-house projects including inter departmental/programme : 100%
   b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies : NA

23. Awards / Recognitions received by faculty and students : NIL

24. List of eminent academicians and scientists / visitors to the department:
- Pranati Mehra: Eminent Journalist who dealt with coverage of 1992 bomb blast case in Mumbai.
- Jay Deshmukh: A reporter with AFP who has covered Middle East extensively for the last 20 years.
- Hussain Zaidi: A renowned writer who has authored several bestselling books on Mumbai's underworld.
- Sudeep Nagrakar: A renowned author of several bestselling books.

25. Seminars/ Conferences/Workshops organized & the source of funding a) National b) International : NIL

26. Student profile programme/course wise: 2015-16

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBMM	801	69	22	47	80
TYBMM		60	33	27	85

*M = Male   *F = Female

27. Diversity of Students : No students from other state

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : NIL

29. Student progression

Student progression	Against % enrolled
UG to PG	34
PG to M.Phil.	--
PG to Ph.D.	01
Ph.D. to Post-Doctoral	--
Employed • Campus selection • Other than campus recruitment	52
Entrepreneurship/Self-employment	--

30. Details of Infrastructural facilities
   a) Library : Common Central Library with e-learning facility and Departmental Library
   b) Internet facilities for Staff & Students: Library, Staff Common Room, Language Laboratory
   c) Class rooms with ICT facility : Multi media room, Mini Audi,
   d) Laboratories: Language Laboratory, e Learning lab

31. Number of students receiving financial assistance from college, university, government or other agencies : NIL

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts : NIL

33. Teaching methods adopted to improve student learning: NIL

34. Participation in Institutional Social Responsibility (ISR) and Extension activities : NIL

35. SWOC analysis of the department and Future plans

   Strengths*:*
   - Experienced visiting faculty with diverse backgrounds and several years of academic and industry experience.
   - Continue to use the chalk & talk method of teaching-learning.

   Weaknesses:

   Opportunities:

   Challenges*:*
   - The students come from diverse academic backgrounds, viz, Arts, Science, Commerce Engineering dropouts, and even technical studies (MCVC).

   Future Plans:
   - Start a dedicated media lab in the college campus and use it for several certificate courses in editing, radio jockeying, anchoring, dubbing, and placement opportunities.

![V G Vaze College logo] V G Vaze College

SELF FINANCING COURSES UG PROGRAMS (BAF, BBI, BMS)

1. **Name of the department :** BAF, BBI AND BMS

2. **Year of Establishment :** BMS (2012-13), BBI (2004-05), BAF (2004-05)

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :** UG,

4. **Names of Interdisciplinary courses and the departments/units involved :** NA

5. **Annual/ semester/choice based credit system (programme wise) :** CBSGS

6. **Participation of the department in the courses offered by other departments:** NA

7. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** NA

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts :**

	Sanctioned	Filled	
Professors	--	--	
Associate Professors	--	--	
Asst. Professors	12	09	

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)**

	Name of Teacher	Designation	Qualifications	Experience
1	Seema Pawar	Asst. Prof & Course Coordinator	DMS, MHRDM, BLib, NET	13 years
2	Anita Yakkali	Asst. Prof	MCom, ICWAI	12 Years
3	Khursheed Shaikh	Asst. Prof	BCom, DPIR, MHRDM	10 Years
4	Laveleen Kaur Narang	Asst. Prof	MCom, MPhil, PGDBM, GDCA	10 Years
5	Seema Das*	Asst. Prof	MSc(CS), MBA	6 Years
6	Rajesh Mane	Asst. Prof	MCom, PGDFM, GDCA	3 Years
7	Arati Shah	Asst. Prof	BCom, DFM, MHRDM, MCom	2 years
8	Amruta Khanolkar	Asst. Prof	BE-Electronic, MMS	2 years
9	Atish Nikkam	Asst. Prof	MA- Economic	1 year
10	Vishal Jangam	Asst. Prof	MCom, SET, NET	1 Year
11	Annu Singh	Asst. Prof	MCom	1 Year
12	Priyanka Agarwal	Asst. Prof	MSc-IT, Diploma in Software Engineering	2 years

11. **List of senior visiting faculty :**

- Prof. Kailash chitinis,
- Prof. Sampat Krishnan,
- CA Sanjeev Gokhale,
- Mr. Rajwade
- Sumukhi Vaishanpayan
- Molina Thakur
- Ananya Prabhu
- Shilpa Kulkarni
- Ashwini Mondkar
- Venkatraman Y
- Viral Rami
- Neeraj Kelkar
- Savio Pashana
- Sundari Johnson
- Geeta Gokhale
- Roopali Kotekar
- Laxmi Shahapure
- Khushboo Balani

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** 100%

13. **Student -Teacher Ratio (programme wise) :** 65:1

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled :** NA

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. :** Refer to No 10

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received :** NIL

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :** NIL

18. **Research Centre /facility recognized by the University :** NA

19. **Publications :** NIL

20. **Areas of consultancy and income generated :** NA

21. **Faculty as members in a) National committees b) International Committees c) Editorial Boards….:** NA

22. **Student projects**
    a) **Percentage of students who have done in-house projects including inter departmental/programme :** 100%
    b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :** NA

23. **Awards / Recognitions received by faculty and students :** NIL

24. **List of eminent academicians and scientists / visitors to the department:**
    - PranatiMehra: Eminent Journalist who dealt with coverage of 1992 bomb blast case in Mumbai.
    - Jay Deshmukh: A reporter with AFP who has covered Middle East extensively for the last 20 years.
    - Hussain Zaidi: A renowned writer who has authored several bestselling books on Mumbai's underworld.
    - SudeepNagrakar: A renowned author of several bestselling books.

25. **Seminars/ Conferences/Workshops organized & the source of funding a) National b) International :** NIL

26. **Student profile programme/course wise: 2015-16**

Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
FYBMS	1613	69	39	30	
TYBMS		52	36	16	
FYBBI	487	63	15	48	88.33
TYBBI		46	09	37	
FYBAF	2045	143	43	100	
TYBAF		119	34	84	

*M = Male   *F = Female

27. **Diversity of Students :** 01 Student from Delhi and 01 from Bahrin

28. **How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.? :** NIL

29. Student progression

Student progression	Against % enrolled
UG to PG	20
PG to M.Phil.	--
PG to Ph.D.	--
Ph.D. to Post-Doctoral	--
Employed • Campus selection • Other than campus recruitment	Yes 20- 25 50
Entrepreneurship/Self-employment	15

30. Details of Infrastructural facilities1
   a) Library : Common Central Library with e-learning facility and Departmental Library
   b) Internet facilities for Staff & Students: Library, Staff Common Room, Language Laboratory
   c) Class rooms with ICT facility : Multi media room, Mini Audi,
   d) Laboratories: NL

31. Number of students receiving financial assistance from college, university, government or other agencies : NIL

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts : NIL

33. Teaching methods adopted to improve student learning: NIL

34. Participation in Institutional Social Responsibility (ISR) and Extension activities : NIL

35. SWOC analysis of the department and Future plans
   Strengths
   • Plan , scheduled yearly basis
   • Departmental activities
   • Weekly schedule and Lectures Plan
   • Time tables are prepared well in advance (Semester wise)
   • Student's feedback at the end of academic year
   Weaknesses
   • No Alumni Record
   • No Research Publication or Activity
   • High turnover of staff temporary appointments
   Opportunities
   • High demand for self financing courses
   • Huge scope to bring in specialization in specific courses as per demand
   • If possible the number of divisions can be increased catering to unstoppable demand
   Challenges
   • Due to lack of alumni record, difficult to tap in valuable opportunities which comes from them
   • Lack of research activity might have an adverse impact on overall growth of faculty
   • Temporary appointments of the staff with basic facilities might have an adverse impact in terms of retaining the employee and so on.

DEPARTMENT OF PERUMERY AND COSMETOLOGY

1. **Name of the department:** Department of Cosmetics and Perfumery

2. **Year of Establishment:** 2005

3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):** Post Graduate diploma

4. **Names of Interdisciplinary courses and the departments/units involved:** NA

5. **Annual/ semester/choice based credit system (programme wise):** Annual

6. **Participation of the department in the courses offered by other departments**

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Certificate course in Perfumery Evaluation in collaboration with CPL Aromas and COFVI

8. **Details of courses/programmes discontinued (if any) with reasons :** NA

9. **Number of Teaching posts:**

	Sanctioned	Filled
Professors		
Associate Professors		
Asst. Professors	2	2

10. **Faculty profile with name, qualification, designation, specialization, (D.Sc. / D.Litt.   /Ph.D. / M. Phil. etc.,)**

Name	Qualification	Designation	Specialization	No. of Years of Experiene	No. of Ph.D. Students guided for the last 4 years
Dr. Renuka Thergaonkar	BTech, MTech DBM, PhD.	HOD, Assit. Prof.	Cosmetic Formulations	20	
Anuya Joshi	BSc., PGDPCM	Assit. Prof.	Perfumery	7	

11. **List of senior visiting faculty**

1. Mr S.M.Shanbhag
2. Mr Chintamani Lagoo
3. Dr. M.R. Kurup
4. Dr. B. B. Sharma
5. CA A D Bhorkar
6. CA V.V. Joshi
7. Dr K G Bhole
8. Dr Leena Thatte
9. Dr Adhir Ambavne
10. Ms Chitra Subamanium
11. Mr Rajaram Rajwade
12. Mr Deepak Rohra
13. Mr Vijay Gadkari
14. Ms Geetanjali

12. **Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty :** 47%

13. **Student -Teacher Ratio (programme wise):** 1:25

14. **Number of academic support staff (technical) and administrative staff; sanctioned and filled:** Sanctioned – 1, Filled- 1

15. **Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

	Name of Faculty	Academic Qualification
1	Dr Renuka Thergaonkar	BTech, DBM, MTech, Ph.D
2	Anuya Joshi	B.Sc, PGDPCM

16. **Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:** NA

17. **Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:** Rs. 4,00,000/-

18. **Research Centre /facility recognized by the University**

19. **Publications:**

Faculty	a	b1	b2	c	d	e	f	g	h	i	j	k	l	m
Dr Renuka Thergaonkar	10	02	06					01						01
Anuya Joshi														

20. **Areas of consultancy and income generated:** Cosmetic Raw material consultancy Income generated Rs 13,00000

21. **Faculty as members in**
    Renuka Thergaonkar:
    a) **National committees :**
       1. Member of Bureau of Indian Standards PCD 19
       2. Member of Joint Committee of India for Flavour and Fragrances
       3. Joint Secretary of Indian Society of Cosmetic Chemists
       4. Governing body member of Oil Technology Association of India, Western zone.
    b) **International Committees: NIL**
    c) **Editorial Boards:**
       1. On editorial board of Soaps, Detergents and Cosmetics magazine

22. **Student projects**
    a) **Percentage of students who have done in-house projects including inter departmental/programme:** 100%, Compulsory as part of curriculum
    b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:** 100% as on the job training is compulsory

23. **Awards / Recognitions received by faculty and students:**
    Renuka Thergaonkar:
    Best Innovative Cosmetic Product award for the Kaliome range of Products at Beauty World France 2012

24. **List of eminent academicians and scientists / visitors to the department:**
    1. Mr. Yuji Sato – Chief representative of South Asia, Haishibara - New Personal Care ingredients
    2. Mr. Vinayak Lad- Manager, Seppic,"New Thixotropic Ingredients"
    3. Mr.Jairam, CEO, Inolex India, 'Silicone Alternatives"
    4. Mr. Uday Kulkarni, Technical head , BASF- "Personal Care Raw materials"
    5. Mr. Vipul Bhatt-Business Head- Personal Care, BASF, "Personal Care Raw materials"
    6. Ms. Pooja- Business Development Incharge- Oriflame India " New Business Opportunities"

7. Mr. Kelkar- Senior Manager, IBM- "ISO Series"
8. Ms. Marriam, Technical Head, Gattefosse France " New Skin Definer"
9. Mr Paul, Director Innolex
10. Ms Paula , Global Techncal Director-Gatteffose,
11. Dr. David, R&D, Director, Sekisui, US

25. Seminars/ Conferences/Workshops organized & the source of funding
   a) National: 02
   b) International : 01

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
PGDPCM 2012-2013	85	25	8	17	100%
PGDPCM 2013-2014	82	27	7	20	100%
PGDPCM 2014-2015	88	30	7	22	100%
PGDPCM 2015-2016	80	25	7	18	100%

*M = Male   *F = Female

27. Diversity of Students : 02% os students from other state

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? : NA

29. Student progression

Student progression	Against % enrolled
UG to PG	--
PG to M.Phil.	--
PG to Ph.D.	--
Ph.D. to Post-Doctoral	--
Employed • Campus selection • Other than campus recruitment	100%
Entrepreneurship/Self-employment	5

30. Details of Infrastructural facilities
   a. Library; Separate library on cosmetics and perfumes
   b. Internet facilities for Staff & Students: 11 computers available
   c. Class rooms with ICT facility : 02
   d. Laboratories: 04

31. Number of students receiving financial assistance from college, university, government or other agencies: NA

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts :
- Lectures and Workshops by Eminent personalities from the Industry on Specialized raw materials, New technologies, New Product Development, Future Scope in the field of Cosmetics and Perfumery are conducted.
- Students are also taken for Market and Industrial visits to get hands on experience.
- Students are encouraged to participate in ISCC porgramms

33. Teaching methods adopted to improve student learning : Teaching through quizzes, projects, practical projects, market visits, interaction with industry people, guest lectures by alumini from industry etc

34. **Participation in Institutional Social Responsibility (ISR) and Extension activities :**
Certificate course in Perfumery Evaluation for Visually challenged students

35. **SWOC analysis of the department and Future plans**

Strength:
Only course in India providing Technical and management knowledge
Syllabus integrating the industrial needs as latest development
Direct link with industry

Weakness
More dependency on visiting faculty

Opportunities:
100% placement opportunities for students
Being Pioneers more scope to grow in the field and set standards

Challenges:
Being pioneers no comparable so setting standards is a challenge

Future Plans:
Convert the Diploma course into degree course
Start PhD program

COMPLIANCE REPORT AND POST ACCREDITATION INITIATIVES

I	Faculties/Schools: 3 - Arts, Science and Commerce	3
	Department/ Centres: 24	25 (BMS added)/ PhD centers 09
	Programs/Courses Offered: UG: 03 PG: 1 Research: 1 Certificate, Diploma and PG Diploma	Programs at UG level 20 PG 06 PhD 09 PGDPCM (PG Diploma) 01 Certificate Courses 14
	Permanent Faculty Members: Sanctioned: 59 Filled: 58 Part time/Temporary/Contract: 16	Permanent Faculty Members: Sanctioned: 60 Filled: 45 Part time/Temporary/Contract: 18
	Permanent Support Staff: Sanctioned: 104 Filled: 92	Permanent Support Staff: Sanctioned: 104 Filled: 94
	Students: 3283	Students: 3705
II	Curriculum Design & Development: Curriculum is designed by the affiliating University. College initiated Certificate and Diploma programs to provide dual competency.	Added programs from 2012: 06 BMS MCom MSc in Physics PhD in History, English, Physics, Environmental Sc Certificate programs: 14
	Academic Flexibility: Academic flexibility is not visible. Flexibility in terms of subject combinations for the UG Programs and M.Sc., programs in Information Technology and Biotechnology.	40 combinations at FYBA 04 combinations at FYBSc 28 combinations at SYBA 05 combinations at SYBSc MSc in Chemistry, Zoology, BT,IT, Physics MCom
	Feedback on Curriculum: Feedback on curriculum is obtained from students. Suggestions are communicated to the faculty and management. Feedback analysis and follow-up action needs to be strengthened.	From all stakeholders – students, alumni, industry. Software and Mobile App developed by IT students. Makes it easy to conduct and analyze the feedback
	Curriculum update: Curriculum is updated periodically by the University. It has semester system with Continuous Comprehensive Evaluation.	New Programs such as BMS, MCom, MSc in Physics, 03 PhD centres added PGDPCM course is constantly

	The College has introduced programs and subjects in emerging areas like Biotechnology, Information Technology, and has a good pool of elective subjects of current relevance	updated to match changing global scenario
	Admission process and Student Profile: Annual prospectus providing necessary information about the academic programs and institutional website are sources of publicity. Transparency in admission process is practiced and good demand ratio is observed. Disadvantaged communities, women, sports persons and differently abled are favorably considered for admission.	Development of a dynamic website for better information dissemination Transparency in admission process is practiced and good demand ratio
	Catering to diverse needs: Teachers identify slow and advanced learners through class tests. Students are assisted by the teachers through various short programs depending on their needs	Formal mentoring system introduced
	Teaching- Learning Process: Teaching-learning and evaluation schedule as per the academic calendar. Academic diary is maintained by the teachers. Teaching-learning methods include lectures supported by tutorials, practicals, seminars, projects, assignments, presentations field visits, case studies, on-the-job training, and study tours. ICT based teaching-learning is practiced. Experiential learning practiced through the use of laboratories.	Increasing use of social media Teachers trained in new methodologies of teaching like POGIL Use of online teaching aids like MOOCS, NPTEL
	Teacher Quality: 33 of the 58 permanent faculty members have Ph.D. degree and 15 have M.Phil., degree. 13 have passed the UGC/CSIR NET and SLET examinations. 07 teachers have extra qualifications like MBA. Considerable number of faculty members attended national/ international conferences and presented about 300 papers during the assessment period. Some teachers including the Principal received awards/recognitions for their contributions during the assessment period. 13 teachers are university recognized research guides. A few teachers have developed e-study materials.	In the last 5 years: Teachers completing PhD : 09 Teachers pursuing PhD: 10 MPhil : 02 NET/ SLET: 05 Additional qualifications by administrative staff: 04 Attended national / international conferences: 332 Papers presented: 182 Papers published:236 Awards and recognitions: 06 Patents: 06 Research guides: 19 + 4 who superannuated
	Evaluation process and Reform:	New CAP centre, in house

	University norms strictly followed in examination system and use of automation. Academic Audit through Departmental meetings and teaching plan and teaching diary are periodically reviewed. Continuous Comprehensive Evaluation (CCE) under the Semester system is followed. Grievance Redressal mechanism is functional.	printing of question papers with watermark Automation of examination related work
III	Promotion of Research: Research Promotion Committee (RPC) is functional and encourages faculty members in research projects. Financial incentives for higher studies and publication of research papers and participation in research conferences. The management is promoting progression to go for higher	Research facilities are expanded and extended to other areas. New research centers and instrumentation lab established Vaze Vistas – in house research journal Organization of the Annual Research Scholars' Meet Financial incentives to staff
	Research and publication output: Several faculty members have undertaken major and minor projects to the tune of Rs.18 lakhs College has completed 21 research projects and faculty members published 71 research papers in refereed journals. 33 books and study materials published by faculty members. Over 30 students completed research work leading the award of Ph.D. One patent was obtained by a faculty member of Chemistry	Major/ Minor projects: 22 Publications:236 Registered PhD students: 46 Patents: 06
	Consultancy: The College offers consultancy through the project of Bioremediation of three lakes in Thane in collaboration with Thane Municipal Corporation. Some faculty members of Biotechnology, Chemistry and Cosmetics and Perfumery offers free consultancy through the Parent Trust's Research Development Cell. Educational Policy Research and Consultancy assists educational institutions	College offers consultancy in areas of efficacy, protocol and clinical testing for the perfumery and cosmetic industry. Consultancy is offered to pharmaceutical industry. Some teachers also offer honorary consultancy.
	Extension Activities: The three NSS units are active in the conduct of a number of awareness programs for the society. Vaze Centre for Talent Search (VCTS) helps to identify school children for offering support for their talent development and to prepare them for NSTSE.	Adoption of 4 padas in Bendshil village in the Ambernath taluka and Pivali village in the Shahapur taluka. Nanewadi in Mulund East is adopted as urban slum. Under

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		Science Association is active and the Science departments offer 'open lab' programs to reach the school students of the locality.	the Swachh Bharat Abhiyaan, the college has adopted the Mulund Railway Station for beautification. Apart from the above, activities of DLLE and VCTS are undertaken
		Collaborations: The College has collaborations and MOUs with international/ national/ level institutions and industries of repute such as WHO, ISIPCA of France, Vidya Prathisthan of Baramati, Punjab Science and Agriculture Council, Thane Municipal Corporation and Indian Society of Cosmetic Chemists. Scientific Research Centre is established by the parent Trust of the College to promote collaborative research in the field of CO2 sequestration, Bioremediation, plant tissue culture and cosmetics. Faculties were deputed to foreign laboratories by the College for training.	Collaborating partners in the last five years: Dhar block, Gurdaspur district S H Kelkar and Co., Sathyavathy Biolife, BioAmber, Unilever, ACC, Konkan Krishi Vidyapeeth and National Bureau for Plant Genomic Resource (NBPGR), New-Delhi Tata Memorial centre for Advanced Treatment, Research and Education Entomology Division, National Chemical Laboratory
IV		Physical Facilities for learning A Spacious building complex with a built-up area of 200000 sq.ft. in a campus of 2.54 acres. Adequate physical infrastructure for all the programs available. The College has good power back up through generators. Elevators are available for physically challenged persons. Limited facilities for outdoor sports/games.	4500 sq ft added by way of : New wing on 4th floor 10 new classrooms GD room, Vaze Vision in Library, Commerce lab, Language Lab, e learning lab established New mini auditorium (airconditioned) Installation of solar panel with 10kw capacity with net metering Piped gas from Mahanagar Gas Limited for all laboratories and canteen Refurbishment of Vice Principals' cabins Installation of CCTVs Installation of solar lights Electronic display in foyer Gymkhana renovation with staff cabins

	Maintenance of Infrastructure: Budgetary provision of over Rs.3 lakhs per annum for the maintenance of infrastructure. Maintenance of infrastructure and equipments through AMC. The infrastructure facilities are optimally utilized by conducting number of activities outside the working hours.	Budgetary provision of over --- lakh per annum for maintenance of infrastructure.
V	Library as a learning resource: The library has nearly 55000 volumes and 40 journals. It has open access facility and is partially computerized using the SOUL system. It has access to e-journals and 21000 ebooks through N-List of UGC INFLIBNET facility. Library has a good multimedia facility with 4 mbps broadband in ternet connectivity.	Automation of library Vaze Vision centre established Special e resource section set up Purchase of new software – OPAC and SOUL 2.0 ILL service with neighbouring college I Gbps network switch for faster connectivity
	ICT as learning resources: The College has 151 computers in 02 central laboratories, administrative offices and other departments. It has 08 LCD projectors. Broadband internet connectivity is available in the campus and the college website is periodically updated. Computers and accessories are maintained through AMC.	The college has added new computers, new software in library, administrative office and IT labs. Purchase of new LCD projectors
	Other Facilities: Facilities for games such as basket ball, kho-kho, kabbadi, handball, badminton and volley ball and a gymnasium are available. Conference room with tele-conference facilities, common room for teaching and non-teaching, faculty cubicles, common rooms for boys and girls and canteen are available. Greenhouse for propagation of economically important plants.	3 Chhatrapati Krida Puraskar awardees, Participation in national and international events Ranked in first 10 of the University
V	Student progression: 30% of UG students go for higher studies, drop out rate is minimal. The academic results are very good for most of the programs at above 90 %. Efforts were made for good placement through campus interviews.	60% students pursue higher studies 30% from UG to Professional courses
	Student Support:	151 students benefit from

	College Prospectus provides all necessary information about the institution to the students. In addition to Government scholarships and free-ships, the College supports over 125 students with financial assistance to the tune of Rs.2.0 lakhs per annum. Career Guidance & Placement Cell organizes workshops, training, career talks, and career exhibitions to promote placement activities. Support services through Counseling services, Women Development Cell, Student Council, Group Insurance schemes are available to students	Endowments instituted in the College to the tune of 1,09,400/- annually In addition, Government scholarships, freeships received to the tune of Rs 15,99,815/-
	Student Activities: The College has an active and supportive alumni association. Inter-collegiate annual cultural fest 'DIMENSIONS' organized regularly. Students won prizes in cultural events at inter-collegiate level competitions in singing, choreography, dances, mono acting, and debate. The College magazine 'Mayur' is regularly published. Students have won prizes in intercollegiate, state, national and international level competitions in sports and games.	DLLE activities are conducted as per guidelines of Mumbai University DIMENSIONS – a regular feature College magazine – 'Mayur' Prizes in intercollegiate, state, national and international levels
VI	Institutional vision and Leadership Leadership given by the Management /Principal is appreciable. Vision/mission of the institution are well reflected in the management and student results. The effective functioning of the administration, curricular and extra-curricular activities under the leadership of the proactive management. Students are provided with opportunities to improve leadership qualities through their participation in different support services.	Vision and Mission statements were revisited and modified on the occasion of Pearl Jubilee of the college Goals and objectives are well spelt out Graduate Attributes have been identified
	Organizational Arrangements: A decentralized administration and internal coordination of Principal, HODs, with faculty and staff working through different committees. A streamlined organizational structure for collaborative and participatory management of the College with the Board of Trustees and Local Management Committee Student's Council, Student Teacher Forum, Parent Teacher Get-together and staff meetings, ensure	New Management continues to follow Vision and Mission of the founding Management

	quality in the different functions of governance	
	Strategy development and Deployment: During the post accreditation period job-oriented professional courses in Biotechnology, cosmetics and perfumery and drug designing were started as innovative programs. Training programme for 'Entry in to Service' was initiated. A perspective institutional plan needs to be formulated. The College has potential to acquire autonomous status.	Perspective Institutional Plan has been formulated and all development strategies, administrative and academic are planned with reference to the perspective plan Establishment of G D Kelkar Skill Development Centre and Finishing School for conduct of short duration skill development and value addition courses.
	Human Resource Management Self-appraisal by teachers and annual faculty evaluation by students are obtained. All the faculty, staff and students are usefully engaged through various activities. The management provides financial support to its employees for education of their children. Teachers are encouraged to improve their qualification and expertise. They are also encouraged to undertake research projects.	PATS conducted through the use of software and mobile app developed by IT students.
	Financial Management and Resources: The College received over Rs1.85 crores on various projects of UGC during the assessment period. Resources are also mobilized through consultancy and industrial research. The management contributes to meet the deficits. Statutory audits are periodically done.	College received Rs 1.2 cr under CPE, Rs 1.67 cr from DBT Rs 50 lacs from DST – FIST Rs 23.66 lacs for various Major and Minor Research projects funded by UGC and other Research institutes
	Internal quality Assurance System: IQAC takes initiatives in the quality assurance programs of the institution through periodic reviews and evaluation. Encouragement to faculty for participation in as well as organization of conferences/seminars/workshops. Promotion of student research and encouragement to participate in 'Avishkar' competitions.	Conduct of PATS and evaluation of college facilities through use of ICT Conduct of annual Academic, Administrative and Activity Audits. Organized conferences on 1. Quality initiatives in HEI 2. Graduate Attributes
	Inclusive Practices: Special remedial program to benefit the weaker students. Scholarship scheme for students from economically weaker sections of society. Attention given for empowerment of women through	Special Cell established UPSC / MPSC Coaching Cell NET/SLET Coaching

		various programs of Women Development Cell. Elevators provided for physically challenged students	
		Stakeholder Relationships: Periodic Parent-Teacher meeting and close monitoring of attendance of students by teachers to benefit the students. Interaction with industries on curriculum content of job oriented courses. Informal feedback from community, parents, and alumni.	Curriculum evaluation from all stakeholders Introduction of RFID to monitor the attendance of students. Parent's mobile linked to the college app to keep them informed about their ward's attendance. Regular PT Meetings at Departmental level
Overall analysis		Institutional Strengths: 27 years of its existence in the urban Mumbai metropolis serving the urban and semi-urban students. College accredited twice earlier with substantive high grade/ rating. College with Potential for Excellence (CPE) - UGC. Industry supported institution with sufficient resources for development. Number of teachers supported through awards. High demand ratio and good academic results.	32 years of existence Thrice accredited with A Grade UGC – CPE UGC – FIST DBT – STAR college scheme DST Strong academia- industry – agriculture linkage High demand ratio for all courses Good academic results
		Institutional Weaknesses: Over 30 faculty members of the self financing courses are temporary. Streamlining strategic plans for upgradation to higher levels of institutional growth. Less number of research degrees for faculty under the unaided stream. Insufficient provision for outdoor games. Lack of health centre.	Ad hoc appointments for vacancies due to superannuation

Limitations of space Insufficient provision for outdoor games |
| | | Institutional Challenges: Identifying and initiating strategies for the next level of growth. Sustaining quality of research in all departments. An ERP solution for the total automation of the administration and academic management systems. Strengthening the placement facilities. Implementation of Performance based appraisal system of the UGC. | Regularization of adhoc appointments Phase-wise implementation of automation of administration and academic management systems PBAS of UGC implemented |
| | | Institutional Opportunities: Starting new electives in emerging areas of interest. Establishing more collaborations and linkages with | Autonomy Strengthening Skill Development Centre |

	industries and organizations. More use of ICT enabled teaching-learning methods by faculty members and students. Initiatives for a perspective institutional plan in consultation with the different constituents including the IQAC.	Augmenting ISR Collaborating with foreign universities
	The College may prepare for upgradation to autonomous status. Academic audits by external experts may be periodically undertaken. Implementing an ERP solution for the total automation of the administration and academics using the cloud computing paradigm.	Annual Academic, Administrative, Activity Audits undertaken Phase-wise implementation of automation of administrative and academic processes

DECLARATION BY THE HEAD OF THE INSTITUTION

This is to certify that the data included in this Self Study Report (SSR) are true to best of my knowledge. This SSR is prepared by the institution after internal discussion and no part thereof has been outsourced.

I am aware that the Peer Team will validate the information provided in this SSR during the Peer Team visit.

Dr. B B Sharma

Principal,

KET's V G Vaze College'

Mulund, Mumbai -81

CERTIFICATE OF COMPLIANCE

(Affiliated/Constituent/Autonomous Colleges and Recognized Institutions)

This is to certify that Vinayak Ganesh Vaze College of Arts, Science and Commerce fulfils all norms

1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition [if applicable] is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date: **3 0 DEC 2016**

Place: **MULUND**

Principal/Head of the Institution

(Name and Signature with Office seal)

DR. B. B. SHARMA
PRINCIPAL
Kelkar Edn. Trust's
V. G. Vaze College of
Arts, Science & Commerce
MULUND (E), MUMBAI-400 081.

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UNIVERSITY GRANTS COMMIS
BAHADUR SHAH ZAFAR MAR
NEW DELHI-110002.

No.F.8-27/91 (CPP-I)College of Arts, Science & Commerce September, 1993

The Registrar
University of Bombay,
Bombay-400032.

Inward No. / Date
3112 SW 13/10/93

Sub:-List of Colleges prepared under Section 2 (f) of the
UGC Act, 1956 - Inclusion of New Colleges.

Sir,

I am directed to refer to your letter No. Aff/Recog/
3135 of 1993 dated 25th June, 1993 on the above subject and
to say that the name of the following college has been
included in the above list under Non-Govt. Colleges teaching
upto Bachelor's Degree :-

Name of the college	Year of Estt.	Remarks
Kelkar Education Trust's Vinayak Ganesh Vaze College of Arts, Science and Commerce, Mulund (East) Bombay-400081 (Dr M.P. Kurup)	20-6-1984	The College is eligible to receive Central assistance in terms of the rules framed under Section 12-B of the UGC Act, 1956.

The Indemnity Bond and other documents in respect of the
above college have been accepted by the Commission.

Yours faithfully,

(R L SONDHI)
UNDER SECRETARY

Copy to :-

1. The Principal, Kelkar Education Trust's Vinayak Ganesh
   Vaze College of Arts, Science & Commerce Mulund (East)
   Bombay-400081.

2. The Secretary, Govt. of India, Ministry of Human Resource
   Development (Deptt. of Education, T-14, Section) New Delhi.

3. All Officers/Sections in the UGC Office.

4. S.O.FD-III/CD-II UGC Office.

5. Incharge Computer Cell UGC.

6. Guard file.

PRINCIPAL
Kelkar Edn. Trust's
V G Vaze College Of
Arts Science Commerce
MULUND EAST BOMBAY-81

(D D MEHTA)
SECTION OFFICER

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Phones: (020) 25691477
25691178, 25696897
Fax: (020) 25691477
Web site: www.ugc.ac.in

KET'S V. G. Vaze College
Mulund, Mumbai-81

Inward No. _____ Date _____

Sign. _____

No. F.5-52/13 (WRO) XI Plan.

Dated:

13 JAN 2014

The DDO
University Grants Commission (WRO)
PUNE-411 007.

Subject: **Release of "Adhoc on Account Grant" under the Scheme of Under Graduate Development Assistance during XII Plan period.**

Sir/Madam,

I am directed to convey the sanction of the Commission for payment of Rs.475000/- (**Rupees Four lakhs seventy five thousand only**) to KELKAR EDUCATION TRUST'S VINAYAK GANESH VAZE COLLEGE OF ARTS SCIENCE & COMMERCE, MITHAGAR ROAD,, MULUND EAST, MUMBAI -400081 as an adhoc grant for the XII plan period.

XI Plan Allocation	25% of XI Plan Grant	XII Plan Provisional Sanction (Adhoc)	
1900000	475000	Grant-in-aid /Recurring (31)	142500
		Capital Assets (35)	332500
		Total	475000

The sanction amount is debatable to head of account as detailed below.

XII Plan Provisional Allocation	Amount sanction (Rs.)	For SC 15% (Rs.)	For ST 7.5% (Rs.)	For GENERAL (77.5%) (Rs.)
Grant-in-aid /Recurring (31)	142500	21375	10688	110438
Capital Assets (35)	332500	49875	24938	257688

- The sanctioned grant may be treated as " Adhoc On account" grant for XII Plan. The allocation made now is Provisional Allocation and the final allocation would be made on finalization of XII Plan Guidelines. The grants sanctioned now would be adjusted against the XII Plan allocation to be made subsequently.
- The grant shall not be used for self-financing/ non-grant/unaided courses & teachers.
- If it come to our notice that the college is Self-finance. The entire amount has to be refunded to UGC(WRO), Pune with penal interest @ 10% per annum.
- The grant can be used for renovation/addition/alteration of building (including renovation of heritage building), books & journals, equipments, laboratory, connectivity, career and counseling cell, cultural activities, day care center, annual maintenance contract and development of ICT, Human Rights & Duties Education (HRDE) and instrumentation Maintenance facilities (IMF).
1. The sanctioned amount is debitable to the major Head 2 (B) for General, 2D(i) for SC, 2D(ii) for ST respectively and is valid for the financial year 2013-14
2. The amount of the grants shall be drawn by the Account Officer (DDO), UGC (WRO), Pune on the Grants-in-aid bill and shall be disbursed to and credited to the Principal of the college through Electronic mode as per the following details:

a	Details (Name & Address) of Accounts Holder:	The Principal, KELKAR EDUCATION TRUST'S VINAYAK GANESH VAZE COLLEGE OF ARTS SCIENCE & COMMERCE, MULUND EAST, MUMBAI- 400081.
b	Account No.:	52013209093
c	Name & Address of Bank Branch:	STATE BANK OF HYDERABAD, MULUND EAST
d	MICR Code:	
e	IFSC Code:	SBHY0020276
	Type of Account	Saving Bank Account

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3. The grant is subject to adjustment on the basis of Utilization Certificate in the prescribed Performa submitted by the University/ College/ Institution.

4. The University/ College shall maintain proper accounts of the expenditure out of the grants, which shall be utilized, only on approved items of expenditure.

5. The University/ Institution may follow the General Financial Rules, 2005 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2005 and those don't have their own approved manuals on financial procedures may adopt the provision of GFRs, 2005 and instruction/ guideline there under from time to time.

6. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to UGC as early as possible after the close of current financial year.

7. The assets acquired wholly or substantially out of UGC's grant, shall not be disposed of or encumbered or utilized for purposes other than those for which the grant was given, without proper sanction of the UGC, and should at any time the College cease to function, such assets shall revert to the University Grants Commission.

8. A Register of the assets acquired wholly or substantially out of the grant shall be maintained by the University/ College in the prescribed proforma.

9. The grantee institution shall ensure the utilization of grants-in-aid for which it is being sanctioned/ paid. In case non-utilization / part utilization, the **simple interest @ 10% per annum** as amended from time to time on utilization amount from the date of drawl to the date of refund as per provision contained in General Financial Rules of Govt. of India will be charged.

10. The Univ./College shall follow strictly the Government of India/ UGC's guidelines regarding implementation the reservation policy [both vertical (for SC, ST & OBC) and horizontal [for persons with disability etc.)] teaching and non-teaching posts.

11. The University/ College shall fully implement to Official Language Policy of Union Govt. and comply with the Official Language Act, 1963 and Official Languages (use for official purposes of the Union) Rules, 1976 etc.

12. The sanction issues in exercise of the delegation of powers vide Commission office order No. 130/2013 [F. No. 10-11/12 (Admn. IA & B)] dated 28/5/2013.

13. The University/ Institution shall strictly follow the UGC Regulations on curbing the menace of Ragging in Higher Education Institutions, 2009.

14. The University/ Institution shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC).

15. The accounts of the University/ Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2005.

16. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government.

17. Funds to the extent of Rs._____ are available under the Scheme.

18. This issues with the concurrence of IFD vide Diary No. 9157(IFD) dated 20.12.2013.

19. This issues with the approval of Head of the Office vide Sanction File No 5-52/13.
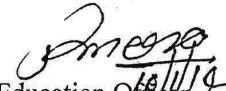
Yours faithfully

Education Officer
(Naresh Pal Meena)

Copies forwarded for information and necessary action to:

i) The Principal,
KELKAR EDUCATION TRUST'S VINAYAK GANESH VAZE
COLLEGE OF ARTS SCIENCE & COMMERCE
MITHAGAR ROAD,, MULUND EAST
MUMBAI- 400081

ii) The Director, B.C.U.D./ C.D.C. University of Mumbai

iii) The Director, Higher Education, Govt. of Maharashtra, Central Building Pune-1.

iv) Accountant General, Govt. of Maharashtra state , 101, Maharshi Karve Marg, Mumbai -20.

v) Guard File.

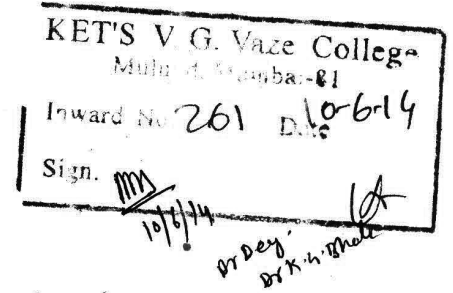| Sr. No _____ |
| Prog. Total. _____ |

Education Officer
(Naresh Pal Meena)

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Ganeshkhind, Pune. – 411007

No. F. 3 -1/2013-14 Accounts/WRO)

Date: 19.03.14
Phones: (020) 25691477
25691178, 25696897
Fax: (020) 25691477
Web site: www.ugc.ac.in

By Registered Post

The Principal
KELKAR EDUCATION TRUST'S VINAYAK GANESH
VAZE COLLEGE OF ARTS SCIENCE & COMMERCE
MITHAGAR ROAD,, MULUND EAST
MUMBAI - 400081.

Subject: **Release of grants through D.D./RTGS.**

Sir/Madam,

Please find the enclosed D.D/Cheque pertaining to release of grants-in-aid to your college as per following details;

- **Sanction letter reference:** - No. F 5-52/13(WRO) dated 13.01.14

- **Plan Period:** - 12th Plan

- **Name of the Scheme:** - General Development Assistance (Block Grant to Colleges)

- **To your college by way of D.D./RTGS Confirmation No./NEFT/Transfer No :** CNRBH14040525880.

- **From UGC Bank Name:-** Canara Bank

- **Dated :- 12.02.14**

- **Amount: -** Rs.475000 /-

   Kindly acknowledge the receipt of this D.D/Cheque.

Yours faithfully,
Sd/-

Education Officer
(Naresh Pal Meena)

* Since it is a computer-generated letter, signature is not necessary.

Copy to F. No. 5-52/13(WRO).

Encl: Acknowledgement.

**ACKNOWLEDGMENT FOR THE GRANTS RECEIVED FROM UGC (WRO), PUNE
(TO BE RETURNED IMMEDIATELY ON RECEIPT OF (DD/RTGS)**

ACKNOWLEDGEMENT FOR THE GRANTS RECEIVED FROM UGC (WRO), PUNE
(To be returned immediately on receipt of (DD No./RTGS Confirmation No./NEFT/ Transfer No.)

To,
The Education Officer/DDO.
University Grants Commission,
Western Regional Office,
Ganeshkhind, Pune- 411 007.

Received form UGC (WRO), Pune a grant of Rs.475000/- (Rs..Only) by DD No./RTGS Confirmation No./NEFT/Transfer No. CNF BH14043525880 dated drown on 12.02.14 in terms of sanction No. F.5-52/13(WRO) dated 13.01.14 & **BCR No.:- 242** for the purpose of **General Development Assistance (Block Grant to Colleges)**

Revenue Stamp

Dated:

Station:

Signature of the Principal/Registrar

THE PRINCIPAL,
KELKAR EDUCATION TRUST'S VINAYAK
GANESH VAZE COLLEGE OF ARTS SCIENCE &
COMMERCE,
MITHAGAR ROAD,, MULUND EAST,
MUMBAI - 400081

Office Seal:

(Note: Further grants to the College will depend on timely receipt of this acknowledgement)

Peer Team Report

on
Institutional Assessment and Re-accreditation

of

Kelkar Education Trust's
Vinayak Ganesh Vaze College
of Arts, Science & Commerce
Mulund, Mumbai – 400081 Maharashtra

Visit Dates: 01st – 03rd March, 2012

Peer Team Report on Institutional Assessment and Re-accreditation of
Kelkar Education Trust's Vinayak Ganesh Vaze College of Arts, Science & Commerce
Mulund, Mumbai – 400 081 Maharashtra

Section I: General Information	
1.1 Name & Address of the Institute :	Kelkar Education Trust's Vinayak Ganesh Vaze College of Arts, Science & Commerce Mulund, Mumbai – 400 081 Maharashtra
1.2 Year of Establishment:	1984
1.3 Current Academic Activity at the Institution (Numbers) :	
• Faculties/schools:	3 - Arts, Science and Commerce
• Department/ Centres:	24
• Programmes/Courses Offered:	UG: 03 PG: 1 Research: 1 Certificate, Diploma and PG Diploma
• Permanent Faculty Members:	Sanctioned: 59 Filled: 58 Part time/Temporary/Contract: 16
• Permanent Support Staff:	Sanctioned: 104 Filled: 92
• Students:	3283
1.4 Three major features in the institutional Context (As Perceived by the peer Team):	• An urban college run by an industry group committed to higher education and research. • Provides UG, PG and research level programmes in Arts, Science and Commerce. • Strong institutional and industry relationship.
1.5 Dates of visit of the peer Team (visit schedule is included as Annexure):	01st – 03rd March, 2012 Detailed visit schedule attached
1.6 Composition of the Peer Team which undertook the on-site visit :	
Chairperson	Prof. S. K. Saidapur (Former Vice Chancellor, Karnatak University) No.108, Sripad Nagar, Dharwad – 580 001, Karnataka
Member Coordinator	Prof. Rajan Varughese Director and Principal Marthoma College of Management and Technology Asramam Campus, Perumbavoor, Ernakulam - 683 542, Kerala
Member	Prof. Muthukalingan Krishnan Professor & Head, Dept. of Environmental Biotechnology Bharathidasan University Triruchirappalli – 602 064, Tamil Nadu
NAAC Officer	Dr. Sujata Shanbhag, Assistant Advisor, NAAC, Bangalore

Section II : CRITERION WISE ANALSIS	
2.1 Curricular Aspects:	
2.1.1 Curriculum Design & Development:	• Curriculum is designed by the affiliating University. • College initiated Certificate and Diploma programmes to provide dual competency.
2.1.2. Academic Flexibility:	• Academic flexibility is not visible. • Flexibility in terms of subject combinations for the UG programmes and M.Sc., programmes in Information Technology and Biotechnology.
2.1.3. Feedback on Curriculum:	• Feedback on curriculum is obtained from students. • Suggestions are communicated to the faculty and management. • Feedback analysis and follow-up action needs to be strengthened.
2.1.4. Curriculum update:	• Curriculum is updated periodically by the University. • It has semester system with Continuous Comprehensive Evaluation. • The College has introduced programmes and subjects in emerging areas like Biotechnology, Information Technology, and has a good pool of elective subjects of current relevance.
2.1.5. Best Practices in Curricular Aspects:	• The curriculum for the Diploma course in Perfumery and Cosmetics was designed by the College in consultation with experts. . • Introduction of new programmes designed based on global needs during the assessment period.
2.2. Teaching- Learning and Evaluation:	
2.2.1. Admission process and Student Profile:	• Annual prospectus providing necessary information about the academic programmes and institutional website are sources of publicity. • Transparency in admission process is practiced and good demand ratio is observed. • Disadvantaged communities, women, sports persons and differently abled are favourably considered for admission.
2.2.2. Catering to diverse needs:	• Teachers identify slow and advanced learners through class tests. • Students are assisted by the teachers through various short

	programmes depending on their needs.
2.2.3. Teaching- Learning Process:	• Teaching-learning and evaluation schedule as per the academic calendar. Academic diary is maintained by the teachers. • Teaching-learning methods include lectures supported by tutorials, practicals, seminars, projects, assignments, presentations, field visits, case studies, on-the-job training, and study tours. ICT based teaching-learning is practiced. • Experiential learning practiced through the use of laboratories.
2.2.4. Teacher Quality:	• 33 of the 58 permanent faculty members have Ph.D. degree and 15 have M.Phil., degree. 13 have passed the UGC/CSIR NET and SLET examinations. 07 teachers have extra qualifications like MBA. • Considerable number of faculty members attended national/ international conferences and presented about 300 papers during the assessment period. • Some teachers including the Principal received awards/recognitions for their contributions during the assessment period. 13 teachers are university recognized research guides. A few teachers have developed e-study materials.
2.2.5. Evaluation process and Reform:	• University norms strictly followed in examination system and use of automation. • Academic Audit through Departmental meetings and teaching plan and teaching diary are periodically reviewed. • Continuous Comprehensive Evaluation (CCE) under the Semester system is followed. Grievance redressal mechanism is functional.
2.2.6. Best practices in Teaching-Learning and Evaluation:	• Experienced faculties are engaged as visiting/adjunct faculty. • Well planned industry visits and educational tours. • Encouragement to students for participation in 'Avishkar' – inter university research festival.
2.3. Research, consultancy and Extension	
2.3.1. Promotion of Research:	• Research Promotion Committee (RPC) is functional and encourages faculty members in research projects. • Financial incentives for higher studies and publication of research papers and participation in research conferences. • The management is promoting progression to go for higher

	• level research through their industry.
2.3.2. Research and publication output:	• Several faculty members have undertaken major and minor projects to the tune of Rs.18 lakhs • College has completed 21 research projects and faculty members published 71 research papers in refereed journals. 33 books and study materials published by faculty members. • Over 30 students completed research work leading the award of Ph.D. • One patent was obtained by a faculty member of Chemistry.
2.3.3. Consultancy:	• The College offers consultancy through the project of Bioremediation of three lakes in Thane in collaboration with Thane Municipal Corporation. • Some faculty members of Biotechnology, Chemistry and Cosmetics and Perfumery offers free consultancy through the Parent Trust's Research Development Cell.. • Educational Policy Research and Consultancy assists educational institutions.
2.3.4. Extension Activities:	• The three NSS units are active in the conduct of a number of awareness programmes for the society. • Vaze Centre for Talent Search (VCTS) helps to identify school children for offering support for their talent development and to prepare them for NSTSE. • Science Association is active and the Science departments offer 'open lab' programmes to reach the school students of the locality.
2.3.5. Collaborations:	• The College has collaborations and MOUs with international/ national/ level institutions and industries of repute such as WHO, ISIPCA of France, Vidya Prathisthan of Baramati, Punja Science and Agriculture Coucil, Thane Municipal Corporation and Indian Society of Cosmetic Chemists. • Scientific Research Centre is established by the parent Trust of the College to promote collaborative research in the field of CO_2 sequestration, Bioremediation, plant tissue culture and cosmetics. • Faculties were deputed to foreign laboratories by the College for training.
2.3.6. Best Practices in Research, Consultancy, Extension:	• One more faculty member filed a patent application for the invention of 'insect extract based cytotoxic agent' in 2007.

	• Established a highly sophisticated Scientific Research Centre to promote research activities. • Awards won at the Avishkar/Anveshan by students during 2010-11.
2.4: Infrastructure and Learning Resources:	
2.4.1. Physical Facilities for learning	• A Spacious building complex with a built-up area of 200000 sq.ft. in a campus of 2.54 acres. • Adequate physical infrastructure for all the programmes available. The College has good power back up through generators. • Elevators are available for physically challenged persons. • Limited facilities for outdoor sports/games.
2.4.2 Maintenance of Infrastructure:	• Budgetary provision of over Rs.3 lakhs per annum for the maintenance of infrastructure. • Maintenance of infrastructure and equipments through AMC. • The infrastructure facilities are optimally utilized by conducting number of activities outside the working hours.
2.4.3. Library as a learning resource:	• The library has nearly 55000 volumes and 40 journals. • It has open access facility and is partially computerized using the SOUL system. It has access to e-journals and 21000 e-books through N-List of UGC INFLIBNET facility. • Library has a good multimedia facility with 4 mbps broadband internet connectivity.
2.4.4. ICT as learning resources:	• The College has 151 computers in 02 central laboratories, administrative offices and other departments. It has 08 LCD projectors. • Broadband internet connectivity is available in the campus and the college website is periodically updated. • Computers and accessories are maintained through AMC.
2.4.5. Other Facilities:	• Facilities for games such as basket ball, khokho, kabbadi, handball, badminton and volley ball and a gymnasium are available. • Conference room with tele-conference facilities, common room for teaching and non-teaching, faculty cubicles, common rooms for boys and girls and canteen are available. • Greenhouse for propagation of economically important plants.
2.4.6. Best Practices in Infrastructure and Learning Resources:	• Introduction of biometric attendance system. • Partially automated administrative office.
2.5. Student Support and Progression:	
2.5.1. Student progression:	• 30% of UG students go for higher studies, drop out rate is minimal. • The academic results are very good for most of the

	programmes at above 90 %. • Efforts were made for good placement through campus interviews.
2.5.2. Student Support:	• College Prospectus provides all necessary information about the institution to the students. • In addition to Government scholarships and free-ships, the College supports over 125 students with financial assistance to the tune of Rs.2.0 lakhs per annum. • Career Guidance & Placement Cell organizes workshops, training, career talks, and career exhibitions to promote placement activities. Support services through Counseling services, Women Development Cell, Student Council, Group Insurance schemes are available to students.
2.5.3. Student Activities:	• The College has an active and supportive alumni association. • Inter-collegiate annual cultural fest 'DIMENSIONS' organized regularly. Students won prizes in cultural events at inter-collegiate level competitions in singing, choreography, dances, mono acting, and debate. The College magazine 'Mayur' is regularly published. • Students have won prizes in intercollegiate, state, national and international level competitions in sports and games.
2.5.4. Best Practices in Student Support and Progression:	• Introduction of coaching sessions for entry in to civil services. • UGC supported remedial programme is implemented. • 'Special Cell' is established to benefit students from marginalized sections.
2.6. Governance and Leadership	
2.6.1. Institutional vision and Leadership	• Leadership given by the Management/Principal is appreciable. • Vision/mission of the institution are well reflected in the management and student results. • The effective functioning of the administration, curricular and extra-curricular activities under the leadership of the proactive management. • Students are provided with opportunities to improve leadership qualities through their participation in different support services.
2.6.2.Organizational Arrangements:	• A decentralized administration and internal coordination of Principal, HODs, with faculty and staff working through different committees. • A streamlined organizational structure for collaborative and participatory management of the College with the Board of Trustees and Local Management Committee • Student's Council, Student Teacher Forum, Parent Teacher Get-together and staff meetings, ensure quality in the

	different functions of governance.
2.6.3. Strategy development and Deployment:	• During the post accreditation period job-oriented professional courses in Biotechnology, cosmetics and perfumery and drug designing were started as innovative programmes. • Training programme for 'Entry in to Service' was initiated. • A perspective institutional plan needs to be formulated. The College has potential to acquire autonomous status.
2.6.4. Human Resource Management	• Self-appraisal by teachers and annual faculty evaluation by students are obtained. • All the faculty, staff and students are usefully engaged through various activities. The management provides financial support to its employees for education of their children. • Teachers are encouraged to improve their qualification and expertise. They are also encouraged to undertake research projects.
2.6.5. Financial Management and Resources:	• The College received over Rs1.85 crores on various projects of UGC during the assessment period. • Resources are also mobilized through consultancy and industrial research. The management contributes to meet the deficits. • Statutory audits are periodically done.
2.6.6. Best Practices in Governance and Leadership	• Visionary management. • Establishment of a strong industry-institution bondage to develop the job opportunities of students.. • The best services of faculty and staff are complemented.
2.7 Innovative Practices	
2.7.1. Internal quality Assurance System:	• IQAC takes initiatives in the quality assurance programmes of the institution through periodic reviews and evaluation. • Encouragement to faculty for participation in as well as organization of conferences/seminars/workshops. • Promotion of student research and encouragement to participate in 'Avishkar' competitions.
2.7.2. Inclusive Practices:	• Special remedial programme to benefit the weaker students. • Scholarship scheme for students from economically weaker sections of society. • Attention given for empowerment of women through various programmes of Women Development Cell. • Elevators provided for physically challenged students,
2.7.3. Stakeholder Relationships:	• Periodic Parent-Teacher meeting and close monitoring of attendance of students by teachers to benefit the students. • Interaction with industries on curriculum content of job-

	oriented courses. • Informal feedback from community, parents, and alumni.
Section III: Overall Analysis	
3.1. Institutional Strengths:	• 27 years of its existence in the urban Mumbai metropolis serving the urban and semi-urban students. • College accredited twice earlier with substantive high grade/ rating. • College with Potential for Excellence (CPE) - UGC. • Industry supported institution with sufficient resources for development. • Number of teachers supported through awards. • High demand ratio and good academic results.
3.2. Institutional Weaknesses:	• Over 30 faculty members of the self financing courses are temporary. • Streamlining strategic plans for upgradation to higher levels of institutional growth. • Less number of research degrees for faculty under the un-aided stream. • Insufficient provision for outdoor games. • Lack of health centre.
3.3. Institutional Challenges:	• Identifying and initiating strategies for the next level of growth. • Sustaining quality of research in all departments. • An ERP solution for the total automation of the administration and academic management systems. • Strengthening the placement facilities. • Implementation of Performance based appraisal system of the UGC.
3.4. Institutional Opportunities:	• Starting new electives in emerging areas of interest. • Establishing more collaborations and linkages with industries and organizations. • More use of ICT enabled teaching-learning methods by faculty members and students. • Initiatives for a perspective institutional plan in consultation with the different constituents including the IQAC.
Section IV: Recommendations for Quality Enhancement:	
	• The College may prepare for upgradation to autonomous status. • Academic audits by external experts may be periodically undertaken. • Implementing an ERP solution for the total automation of the administration and academics using the cloud computing paradigm.

	- Placement and Career Guidance Cell may be further strengthened. - Internet accessibility with Wi Fi connectivity of the whole campus may be provided. - More faculty members to take up research projects and publications. - Establishing more collaborations and linkages with industries and organizations. - Faculty may be encouraged to practice more of ICT enabled teaching-learning methods including e-learning resources. - Scope for introduction of foreign language courses (Certificate/Diploma) as add-on courses. - Inter-departmental research collaborations may be strengthened.

I have read the Report and agree with the Report

Signature of the Principal with date and seal

Signature of the Peer Team with Date

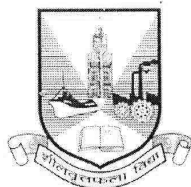Prof. S. K. Saidapur   (Chairperson)

Prof. Rajan Varughese   (Member Coordinator)

Prof. Prof. Muthukalingan Krishnan (Member)

Signature of the NAAC Officer:

Dr.Sujata Shanbhag, Dreputy Adviser, NAAC
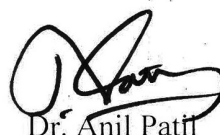
University of Mumbai

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the Kelkar Education Trust`s, Vinayak Ganesh Vaze College of Arts, Science & Commerce, Mithagar Road, Mulund (E), Mumbai-400 081, is affiliated to the University of Mumbai, and the following Courses are conducted in the said college.

Sr. No	Course	Duration	Affiliation (Permanent/ Temporary)	Period of Validity for the years (s)
1	B. A	3 Years	Permanent	Permanent
2	B. Com	3 Years	Permanent	Permanent
3	B. Sc	3 Years	Permanent	Permanent
4	B. Sc (Information Technology)	3 Years	Temporary	From 2001-02 to 2016-17
5	B. Sc (Biotechnology)	3 Years	Temporary	From 2002-03 to 2016-17
6	B. Com (Banking & Insurance)	3 Years	Temporary	From 2003-04 to 2016-17
7	B. Com (Accounting & Finance)	3 Years	Temporary	From 2003-04 to 2016-17
8	B.M.M.	3 Years	Temporary	From 2006-07 to 2016-17
9	B.M.S.	3 Years	Temporary	From 2013-14 to 2016-17
10	M. Com. By papers (Advanced Accountancy)	2 Years	Temporary	From 2012-13 to 2016-17
11	M. Sc. Information Technology)	2 Years	Temporary	From 2004-05 to 2016-17
12	M. Sc. By papers (Bio-Technology)	2 Years	Temporary	From 2005-06 to 2016-17
13	M. Sc By papers (Organic Chemistry)	2 Years	Temporary	From 1988-89 to 2016-17
14	M. Sc By papers (Zoology)	2 Years	Temporary	From 1988-89 to 2016-17
15	M. Sc (By Research) Ph. D Botany	2 Years	Temporary	From 2008-09 to 2016-17
16	M. Sc (By Research) Chemistry	2 Years	Temporary	From 1998-99 to 2016-17
17	M. Sc (By Research) Physics	2 Years	Temporary	From 2013-14 to 2016-17
18	M. Sc (By Research) Biotechnology	2 Years	Temporary	From 2007-08 to 2016-17
19	M. Sc (By Research) Zoology	2 Years	Temporary	From 2009-10 to 2016-17

20	Ph. D. in Economics	Minimum 2 Years of Research	Temporary	From 1992-93 to 2016-17
21	Ph. D. in English	Minimum 2 Years of Research	Temporary	From 2013-14 to 2016-17
22	Ph. D. in History	Minimum 2 Years of Research	Temporary	From 2010-11 to 2016-17
23	Ph. D. in Chemistry	Minimum 2 Years of Research	Temporary	From 2016-17 to 2016-17
24	Ph. D. in Zoology	Minimum 2 Years of Research	Temporary	From 2009-10 to 2016-17
25	Ph. D. in Botany	Minimum 2 Years of Research	Temporary	From 2008-09 to 2016-17
26	Ph. D. in Physics	Minimum 2 Years of Research	Temporary	From 2013-14 to 2016-17
27	Ph. D. in Biotechnology	Minimum 2 Years of Research	Temporary	From 2008-09 to 2016-17

This Certificate is issued on the request of the Principal of the said College for submitting the same to the NAAC, Bangalore, accordingly.

Dr. Anil Patil
Director
Board of College and University Development

ABBREVIATIONS

ACC	Associate Cement Company
ACTREC	Advanced Center for Treatment Research and Education in Cancer
ASTCO	Associated Students Council
BHU	Banaras Hindu University
BMC	Brihanmumbai Municipal Corporation
BOS	Board of Studies
BSR	Basic Science Research
CAP	Centralized Assessment Program
CBGS	Credit Based Grading System
CDIR	Center for Drug Information and Research
CEC	College Executive Committee
CFC	Chloro-Fluoro Carbon
CGPC	Career Guidance and Placement Cell
CRISIL	Credit Rating Information Services of India
DEQ	Debate Elocution Quiz
DLLE	Department of Life Long Learning and Extension
DSIR	Department of Scientific and Industrial Research
EVS	Environmental Studies
EYES	Enlighten Yourself Every Sunday
FC	Foundation Course
FDA	Food and Drug Administration
GD	Group Discussions
HPLC	High Performance Liquid Chromatography
IAPT	Indian Association of Physics Teachers
ICT	Institute of Chemical Technology
IISc	Indian Institute of Science
IISc	Indian Institute of Science
IISER	Indian Institute of Science Education and Research
IIT	Indian Institute of Technology
ISCC	International Standard of Cosmetic Chemists
ISO/TC 217	International Organization for Standardization/ Technical
ISRO	Indian Space Research Organization
IUCAA	Inter University Center for Astronomy and Astrophysics
KET	Kelkar Education Trust
MGL	Mahanagar Gas Limited
MHADA	Maharashtra Housing And Development Authority
MPCB	Maharashtra Pollution Control Board
MPLC	Medium Pressure Liquid Chromatography
MSEDCL	Maharashtra State Electricity Distribution Corporation Limited
MSME	Micro Small and Medium Enterprises

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NCL	National Chemical Laboratory
NGPE	National Graduate Physics Examination
NIMHANS	National Institute for Mental Health and Neuro-Sciences
NIMHANS	National Institute of Mental Health and Neuro Sciences
OWL	Organic World Language
P&C	Perfumery and Cosmetology
PCR	Polymerase Chain Reaction
PET	Ph.D. Entrance Test
PGDPCM	Post Graduate Diploma in Perfumery and Cosmetology Management
POGIL	Process Oriented Guided Inquiry Learning
PSI	Police Sub Inspector
PTA	Parent Teacher Association
RAPD	Random Amplification of Polymorphic DNA
RRC	Research and Recognition Committee
RSC-WIS	Royal Society of Chemistry Western India Sector
RSIC	Royal Society for Indian Chemists
RTO	Regional Transport Office
SAIF	Sophisticated Analytical Instrumentation Facility
SMAF	Students Mutual Aid Fund
SPSS	Statistical Package for Social Sciences
SRC	Scientific Research Center
STUCO	Students' Council
TDM	Therapeutic Drug Monitoring
TIFR	Tata Institute of Fundamental Research
UGC	University Grants Commission
UNO	United Nations Organization
VCTS	Vaze Center for Talent Search
VRG	Vaze Research Group
WDC	Women's Development Cell
YCMOU	Yashwantrao Chavan Maharashtra Open University