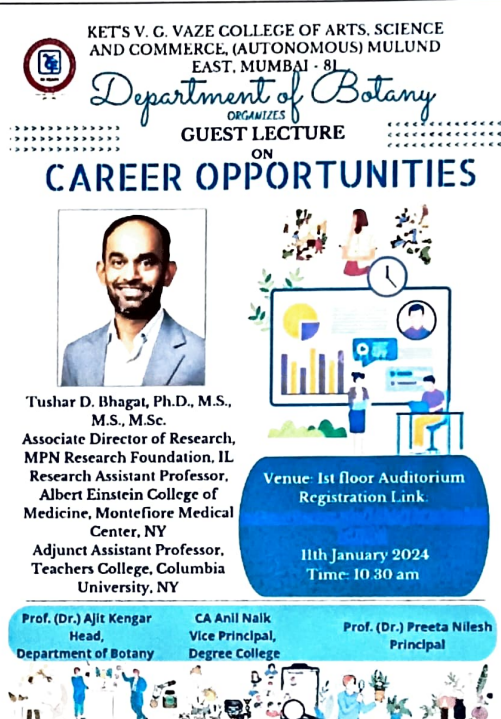




**KELKAR EDUCATION TRUST'S**  
**Vinayak Ganesh Vaze College of Arts, Science & Commerce (Autonomous)**  
 Re-accreditation by NAAC (4<sup>th</sup>) Cycle with "A" Grade

**Details of Workshops/Seminars conducted on Intellectual Property Rights (IPR), Research Methodology, Entrepreneurship and Skill Development during the year 2023-24 (Science Section)**

Sr. No.	Activity Report
<b>1</b>	<p><b>A Seminar on "Career Opportunities in Life Sciences"</b>  <b>Date : 11<sup>th</sup> January, 2024</b></p> <p><b>Name of the Resource Person:</b> Dr. Tushar Bhagat, Associate Director of Research, MPN Research Foundation</p> <p><b>Brief Description of the Workshop:</b></p> <p>To enrich the interest of the students in the subject of Life Sciences the Department of Botany organized a guest lecture entitled "Career Opportunities in Life Sciences". The invited speaker for the lecture was an alumnus of K.E.T's V.G. Vaze College of Arts, Science and Commerce (Autonomous), Mulund Dr. Tushar Bhagat, who is the Associate Director of Research at MPN Research Foundation, Illinois, USA.</p> <p>The program was chaired by Dr. Tushar Bhagat, Prof (Dr.) Suresh Shendge (Dean of Science and NEP-Nodal officer), Prof. (Dr.) Vinod Ragade (HOD Zoology) and Mr. Sharad Aapte (HOD Botany, Gogate Joglekar College, Ratnagiri). The program began with a welcome address by the Head of the Department, Prof. (Dr.) Ajit Kengar. The invited speaker Dr. Tushar Bhagat was felicitated by Mr. Sharad Apte; Dr. Bhagat was accompanied by his mother and brother who were also felicitated by the Botany department.</p> <p>During the lecture Dr. Bhagat emphasized the need to develop professional skill-sets in the college which play a major role in choosing a successful career path. Along with the specific opportunities in Life Sciences, he also threw light on the importance of mindfulness and meditation to live a healthy and accomplished life.</p> <p><b>Number of attendees:</b> 92 Students and 9 faculty</p> <p><b>Link for registration:</b> <a href="https://forms.gle/IdbNJ5C65mXZhU9b6">https://forms.gle/IdbNJ5C65mXZhU9b6</a></p> <div style="text-align: right; margin-top: 20px;">  <p>The poster features a portrait of Dr. Tushar Bhagat, a bar chart, and a clock. It includes the text: 'KETS V. G. VAZE COLLEGE OF ARTS, SCIENCE AND COMMERCE, (AUTONOMOUS) MULUND EAST, MUMBAI - 81', 'Department of Botany ORGANIZES GUEST LECTURE ON CAREER OPPORTUNITIES', 'Tushar D. Bhagat, Ph.D., M.S., M.S., M.Sc. Associate Director of Research, MPN Research Foundation, IL Research Assistant Professor, Albert Einstein College of Medicine, Montefiore Medical Center, NY Adjunct Assistant Professor, Teachers College, Columbia University, NY', 'Venue: 1st floor Auditorium Registration Link', '11th January 2024 Time: 10:30 am', and a list of organizers: Prof. (Dr.) Ajit Kengar (Head, Department of Botany), CA Anil Naik (Vice Principal, Degree College), and Prof. (Dr.) Preeta Nilesh (Principal).</p> </div>

*Preeta Nilesh*  
 I.Q.A.C. CO-ORDINATOR  
 KET'S V.G. Vaze College of Arts, Science and Commerce Mulund (E), Mumbai-400 081.



*Preeta Nilesh*  
**Principal**  
 V. G. Vaze College (Autonomous)  
 Mulund - East, Mumbai - 400 081.

## Photographs/Screenshots:



## 2 Botany Festival - "floradise"

Date : 13/12/2023

**Resource Persons:** Faculty of Botany Department

**Description:** The Department of Botany organized an inauguration event to celebrate the introduction of maiden Festival titled "Floradise" on 13/12/2023. The festival was inaugurated by Dr. Sheikh (Registrar, University of Mumbai). Prof. (Dr.) Preeta Nilesh, CA Anil Naik and Dr. Neeta Mehta were present for the function. A series of events were conducted for the same; the description of which is as follows:

Sr. No.	Time	Location	Activity
1.	8:30 – 2:00 pm	Main foyer	Floral exhibition and a stall showcasing botanical artifacts.
2.	9:00 – 9:30 am	Ground	Music piece followed by poster drop.
3.	10:00 am – 12:00 noon	Smt. Radhabai Vaze Auditorium	Open Mic

## Photos:







### 3 Guest Lecture - "Role of NGOs in Environmental Conservation"

Date : 28<sup>th</sup> October 23

Venue: Biology Lab

Name of the Resource Person: Mr. Milind Nargund (Operations Manager- PRASAD *Chikitsa*)

#### Brief Description of the Workshop:

On October 28, 2023, the Green Club at KET's V.G. Vaze College of Arts, Science & Commerce (Autonomous) hosted a remarkable event featuring a distinguished guest lecturer, Mr. Milind Nargund, the Operations Manager of the NGO PRASAD *Chikitsa*. The event garnered significant attendance, with teaching staff from the Departments of Botany and Zoology in enthusiastic participation.

Mr. Milind Nargund provided an insightful overview of the activities and objectives of PRASAD *Chikitsa*. Their multifaceted work encompasses affordable healthcare services and a plant nursery dedicated to environmental preservation. Notably, he mentioned the organization's commitment to planting one million trees in the coming year, emphasizing the need for college students' participation in achieving this ambitious goal. The session was followed by the Signing of a Memorandum of Understanding in between the Department of Botany and PRASAD *Chikitsa* for Collaborative works for the betterment of the Tanasa Valley community.





#### 4 Workshop on "Snakes-Safety and Awareness"

Date : 7<sup>th</sup> DECEMBER, 2023

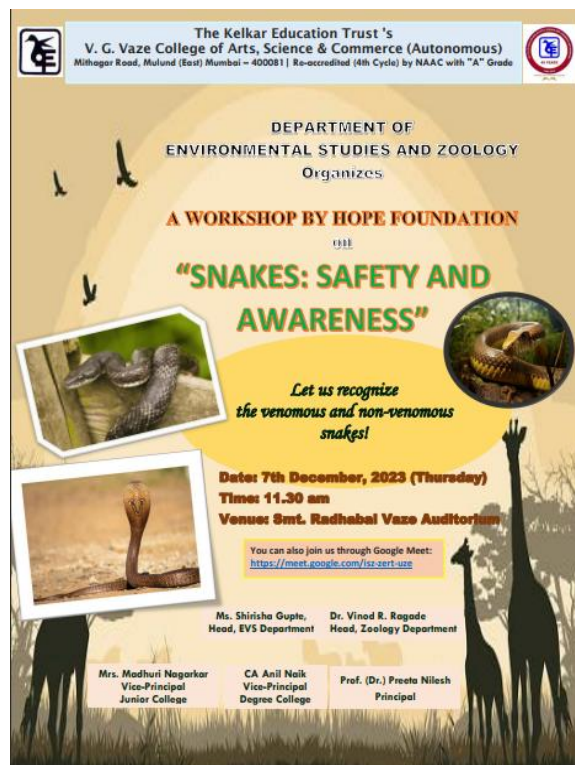
**Collaborating Body:** HOPE FOUNDATION, Mumbai

#### Description:

The Department of Environmental Studies and Zoology organised a Workshop on "Snakes: Safety and Awareness" to create awareness regarding the safety from snakes amongst the participants. The HOPE Foundation is a Non-Profit Organisation from Mumbai, conducting rescue operations of wild animals, especially snakes. The volunteers of the HOPE Foundation are well acquainted with the snake handling and rescue methods. The Workshop focused on the identification of Venomous and Non-venomous snakes, eg. Lycodon aulicus,

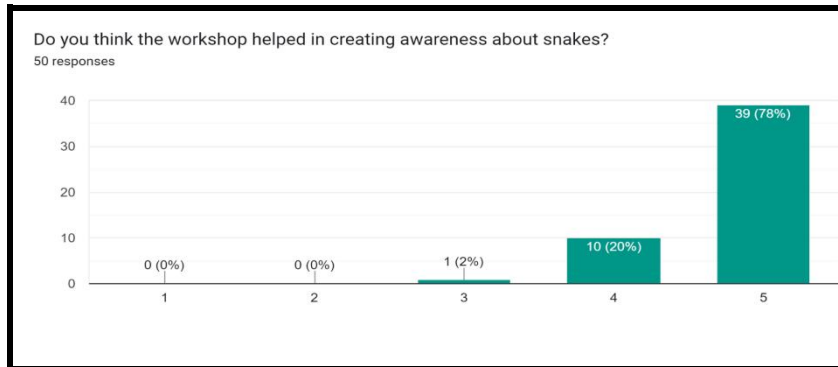
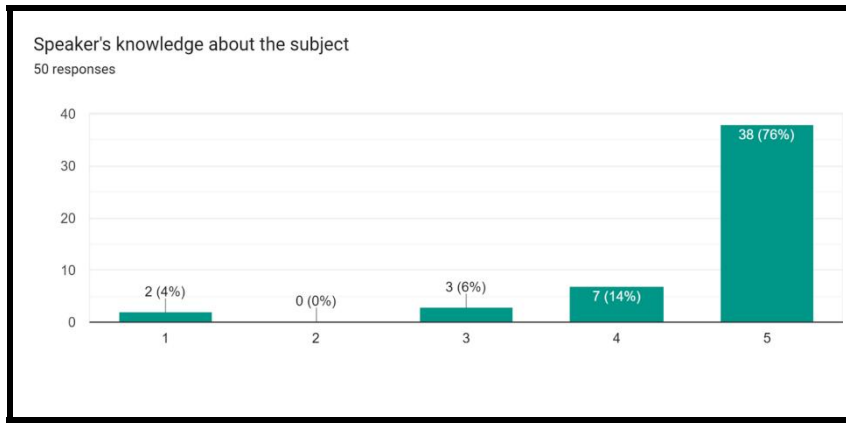
commonly known as the Indian Wolf snake is a non-venomous snake, which is often confused with the Common Kraits as both have bands. But, Wolf snakes do not have large hexagonal vertebral scales along its back like the Kraits. Practical advice on how to avoid snake encounters, what to do if bitten by a snake, and basic first aid techniques were explained in detail. The Workshop provided participants with informational contacts, where they can continue learning about snakes and their conservation, thus reporting venomous snakes in the habitat. A dedicated time for participants to ask questions and clarify any doubts they may have about snakes. The participants were made aware about the contribution to snake conservation efforts and promoting a safer environment for both humans and wildlife.

**Number of attendees : 120**





**Feedback Analysis:** The feedback was collected through google forms.



**Photographs/Screenshots:**



**5 Guest Lecture on "Importance of Zoos and Zoo Management"**

**Date:** 2<sup>nd</sup> March, 2024 (Saturday)

**Time:** 9.00 am to 11.00 am

**Venue:** Smt. Radhabai Vaze Auditorium

**Name of the Resource Person:** Dr. Abhishek Satam, Zoo biologist, Veermata Jijamata Bhosale Udyan & Zoo, Mumbai

## Brief Description of the Guest Lecture:

The Guest Speaker, Dr. Abhishek Satam is an expertise in the field of Wildlife Conservation and Management, currently working as a Zoo biologist with the Veermata Jijamata Bhosale Udyan & Zoo (Byculla Zoo) and has expertise in Projects under Zoological Survey of India. The lecture on "Importance of Zoo and Zoo Management" focused on the innovative Zoo management and techniques to conserve the fauna. The lecture highlights the awareness of animal behaviour and conservation strategies. The concept of new exhibits, medical treatments for animals, innovative signage, facts about the Zoonosis and animal interaction and Research in Wildlife created an optimistic impact on the participants. The role of Vets and Zoo biologist was well explained with key points emphasizing on animal health. The pictographs and video graphs of the animal interaction, feeding and activities underwater were the key highlights of the lecture. The lecture was self-reflective, motivating the participants to visit the Zoo and National Parks, volunteering in animal conservation. The lecture also focused on the Wildlife protection laws and International Conventions, permits for Zoos and Wildlife management activities. The Wildlife conservation methods such as remote sensing, aerial counts, and career opportunities in the field of conservation biology and zookeeping.

The students from streams of Arts, Science and Commerce attended the lecture, which emphasized an inter-disciplinary approach towards conservation of the fauna in nature. The role of a Zoo-biologist and their contribution towards the welfare of the wild animals encouraged students to explore in the field of Wildlife Management

**Number of attendees: 190**

**Feedback Analysis:** The students feedback suggested that the lecture helped unlock a new perspective towards zoos and the importance of it. It drew attention towards the need for conservation of animals. The visuals in the presentation shown by Dr. Abhishek Satam sir gave an innovative approach towards the zoo and the well-being of animals. The workshop emphasized on animal cruelty for their skin, scales, or tusks. The presentation given by Dr. Abhishek Satam clarified the doubts regarding the modern Zoo, their infrastructure and ethical guidelines in Wildlife. The lecture enhanced the knowledge about animal behaviour in the natural environment.

The Kelkar Education Trust's  
V. G. Vaze College of Arts, Science & Commerce (Autonomous)  
Mithagar Road, Mulund (East) Mumbai - 400081 Re-accredited (4th Cycle) by NAAC with "A" Grade

**DEPARTMENT OF ZOOLOGY**  
Organizes  
A Guest Lecture  
on  
**IMPORTANCE OF ZOO & ZOO MANAGEMENT**

**Date: 2<sup>nd</sup> March, 2024 (Saturday)**  
**Time: 9.00 am to 11.00 am**  
**Venue: Smt. Radhabai Vaze Auditorium**

**RESOURCE PERSON:**  
**DR. ABHISHEK SATAM**  
ZOO BIOLOGIST,  
Veermata Jijamata Bhosale Udyan & Zoo,  
Mumbai

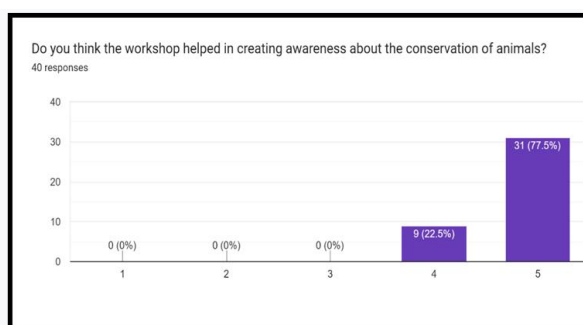
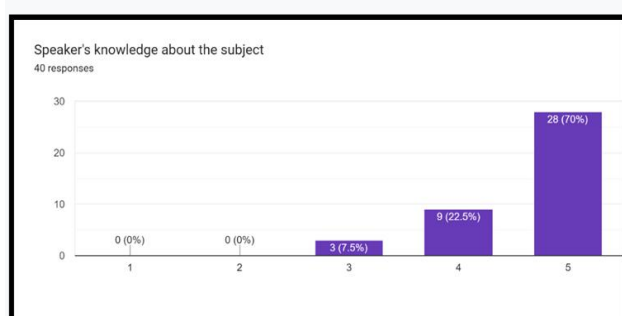
**CHERISH BIODIVERSITY, SUSTAIN LIFE!**

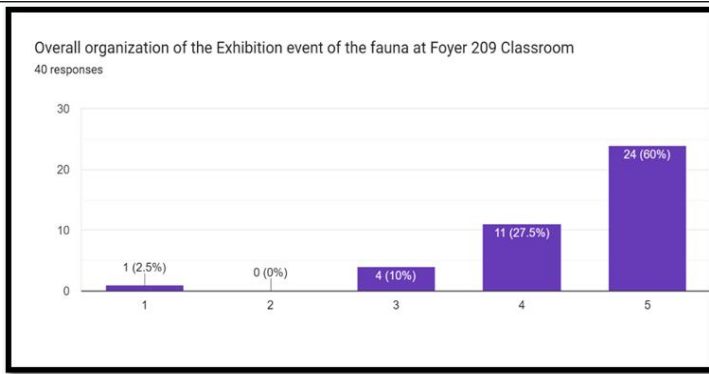
- A biologist with profound research experience from Zoological Survey of India
- Enrich the exemplary knowledge of wildlife management
- Explore the research in field studies and conservation projects
- Let us empower and create awareness of wildlife conservation

Dr. Vinod R. Ragade  
Head,  
Zoology Department

Dr. Neeta Mehta  
I/C Vice-Principal  
Degree College

Prof. (Dr.) Preeti Nilesh  
Principal





## Photos:



## 6 Exhibition - "Prowl and Pose: A Showcase on the Nature's Canvas"

**Date:** 2<sup>nd</sup> March, 2024 (Saturday)

**Time:** 10 am onwards

**Venue:** Foyer 209 Classroom

**Chief guest:** Dr. Abhishek Satam, Zoo biologist, Veermata Jijamata Bhosale Udyan & Zoo, Mumbai

### Brief Description:

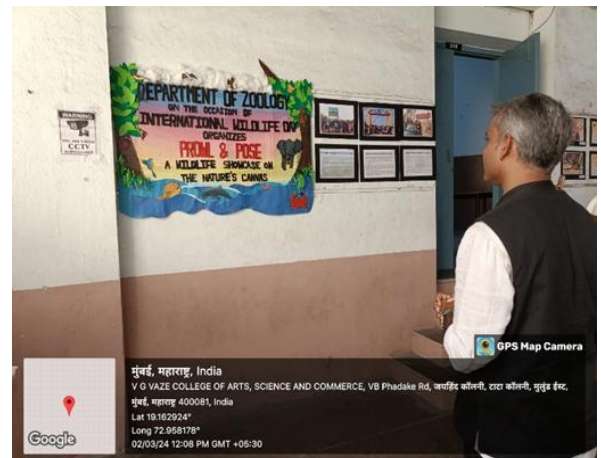
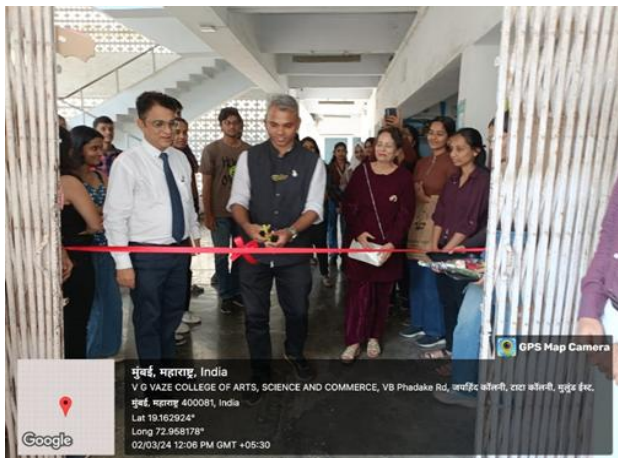
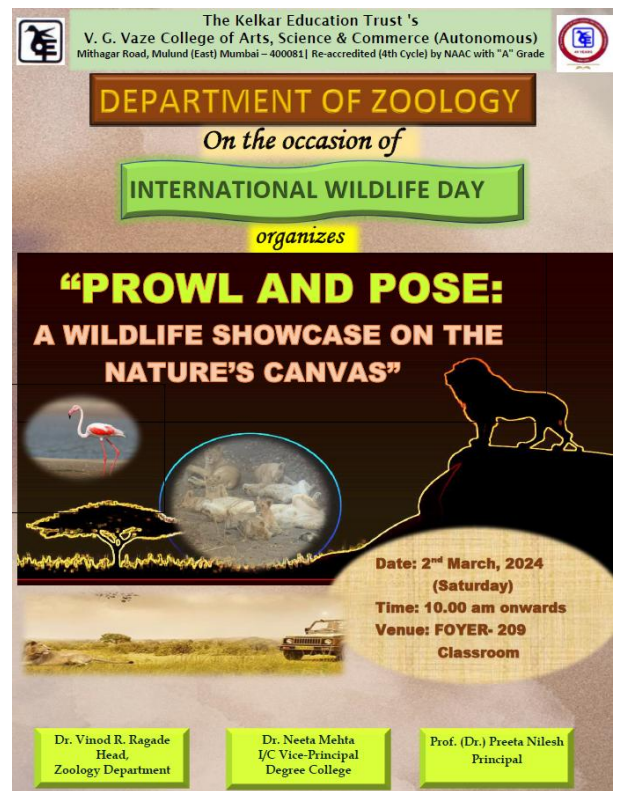
The inauguration of the Exhibition event was done at 11.45 am. The Exhibition of faunal diversity was displayed through photography. The copyright photographs of the faunal diversity taken by TYBSc Zoology student, Mr. Tanishq Shah was exemplary. The photographs of shore birds by Ms. Anchal Pol were appreciated and group photographs of the Excursion were included. The Herbarium was prepared by the students with the identification of the algae on the basis of Taxonomy. The Shell-fie point was beautifully decorated in the entrance



of the Foyer 209 by MSc-I Zoology students with the theme- Corals and Shells from the Aquatic habitat, which was an eye-catching of the event. The Exhibition was visited and appreciated by the Principal, Prof. Dr. Preeta Nilesh and Dr. Neeta Mehta, IQAC Coordinator & Dean of Quality. The exhibition event would focus on the beautiful frames of fauna inhabiting Gir National Park and Narara Marine National Park. The students of TYBSc Zoology contributed an artistic display of the fauna with paintings and decorations with the theme. The Shells, corals and herbarium sheets would enrich the knowledge of terrestrial and marine ecosystems. This event would be a captivating fusion of visual artistry and insightful discussions, exploring the enchanting world of wildlife.

Checklist of the Fauna: Lion, Hawk Eagle, Scops Owllet, Spotted Owl, Peacock, Green bee eater, Greater Flamingo, Reef Heron, Grey Heron, Painted Stork, Dove, Sambar Deer, Wild Ass, Crocodile, Wild Boar, Common Crane, Mongoose, Langur, Deer, Leopard, Nilgai, Octopus, Starfish, Sea Anemone, Puffer fish, Planaria and Sponges.

### Geotagged Photos:







## 7 Intercollegiate Festival "Mathemind" - Seminars, Quiz and Games

**Date:** 8<sup>th</sup> and 9<sup>th</sup> January 2024

### Description:

'Mathematics is an expression, a desire for aesthetic perfection, *'It is logical and analytical and is incomplete without construction and imagination.'*

On 22<sup>nd</sup> December, In the memory of of Dr. Ramanujan every year 'National Mathematics Day' have been celebrated across the India. On this day, different types of Games, Math Quiz, Lectures and Seminars are organized. The Department of Mathematics, V. G. Vaze College also organized two-day events called "Mathemind" on 8<sup>th</sup> and 9<sup>th</sup> January 2024. On 8<sup>th</sup> January there was 'Mathematics Quiz' intercollegiate competition and "Treasure Hunt". On 9<sup>th</sup> January "Mathematical games" were organized. The Student of T.Y.B.Sc. (Mathematics) of our college invited the students of other college Viz. B.N. Bandodkar college, S.K. Somaiya college, K.J.Somaiya, V.P.M. college, R.A.Poddar college, Ratnam college, Ramni Rajan Jhunjhunwala, DAV college.

The Programme started at 10.00 AM with Sarswati Vandana. Prof.(Dr).Suresh Shendge, HOD chemistry department of V.G.Vaze College was invited as a chief guest for the event. The Principal, Prof.(Dr.) Preeta Nilesh Madam gave the speech and congratulate all the student for participating in the event. She said, under NEP non-maths students can also study the mathematics. The T.Y.B.Sc. students facilitate Principal Madam and Chief guest with bouquet and sapling. Then the event started, First Quiz competition was held in Mini Auditorium. Later, Treasure Hunt was started at 2.00 pm. There were 40 students participated in a group of 4 students. The Winners we have awarded with cash prize of rs.1500 for Quiz 1<sup>st</sup> winner and rs.1000 for Quiz runner-up and rs.1200 for winner of Treasure hunt. On 9<sup>th</sup> January, Mathematics games ("Mathemania") was organized in the college ground, that incorporated mathematical concepts. There were five games Viz. Tower of Hanoi, Math-Cross, Game of 100, 100 Heist, Checkers.

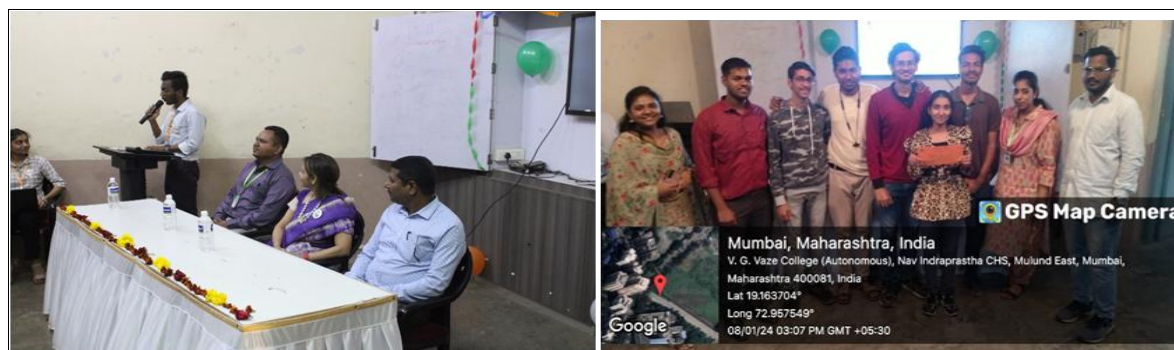
Number of attendees:120

Link to the Activities:

1) Math-Quiz: <https://forms.gle/ftkqyiLWppNQRwJA7>

2) Treasure hunt: <https://forms.gle/crMWGdMKSQ6dTZ6E9>

Photographs/Screenshots:



## 8 Seminar on Careers in Chemistry

Date: 12<sup>th</sup> January 2024

Name of the Resource Person: Dr. Jayesh Tamhanekar

Brief Description of the Workshop:

This career guidance lecture was attended by all F.Y.B.Sc., S.Y.B.Sc., T.Y.B.Sc., M.Sc. Part 1 and M.Sc. part 2 students. Lecture was appreciated by students as now they are clear with their future goals. Students were completely agree with the content explained in the lecture. They also like the overall organization of the workshop.

Number of attendees : 96

Photos:

KET's V. G. Vaze Kelkar College of Arts, Science & Commerce (Autonomous)

THE DEPARTMENT OF CHEMISTRY PRESENTS

# SEMINAR

Let's talk career: What's next for you?  
Strategize your career success in chemistry with us!

**SPEAKER**  
DR. JAYESH TAMHANEKAR  
PH.D., NET, SET & GATE QUALIFIER

**CONTACT US**  
jayesh.tamhanekar50@gmail.com  
9820893261

**FRIDAY**  
12 JANUARY 2024

10:30 AM

**MINI AUDITORIUM**  
1ST FLOOR



**PROF. (DR). PREETA NILESH**  
Principal

**CA ANIL NAIK**  
Vice Principal  
(Degree College)

**PROF. (DR). SURESH SHENDAGE**  
H.O.D. & Dean of  
Science





**9 Quiz Competition on Chemistry**  
**Date:** 8<sup>th</sup> February 2024

**Organized by Chemistry Department**

**Brief Description of the Workshop:**

Department of chemistry organized 'Quizzing with chemistry' - A quiz competition in chemistry on 8th Feb. 2024 from 10:30 am in mini Auditorium. 42 students from FYBSc , 19 from SYBSc , 19 from TYBSc, 10 from MSc part 1 and 8 from MSc part 2 attended the event and participated with great enthusiasm .

**Number of attendees: 98**

**Feedback Analysis:** Total nine teams of five students one from each FY to MSc-II had registered and participated in the competition out of which the winner team was awarded with a beautiful trophy and runner up trophy was also given . All the participants were given sweets. Students and teachers enjoyed the events to the fullest. The event was a great success.

**Photos:**



**KET's V. G. VAZE COLLEGE OF ARTS SCIENCE AND COMMERCE ( AUTONOMOUS)**

**THE DEPARTMENT OF CHEMISTRY PRESENTS QUIZZING WITH CHEMISTRY**



**DATE : 8<sup>th</sup> FEB , 2024**  
**VENUE: Mini auditorium ( first floor)**  
**TIME: 10:30 onwards**

**PROF. (DR.) SURESH SHENDAGE**  
HOD, CHEMISTRY

**CA ANIL NAIK**  
VICE PRINCIPAL  
DEGREE COLLEGE

**PROF. (DR) PREETA NILESH**  
PRINCIPAL

**10 Industrial visit to IOCL and KEVA**  
**Date :** 16<sup>th</sup> and 17<sup>th</sup> February 2024

## Mentors:

Dr. Suresh Shendage, Dr. Ashok Aawale, Dr. Preeti Dwivedi, Mr. Sandip Kamble & Dr. Jagdish

**Brief Description of the Workshop:** Faculty Of Science of V G Vaze College Planned a Two Days Industrial visit To Silvassa. Over 50 Students Of Chemistry, Maths & Physics take part in it. To provide students with an insight into the corporate world, learning about company policies in terms of production, quality, and service management and acquainting themselves with the working of instruments during the course curriculum are the objectives of the visit.

**Number of attendees : 52**

## Outcomes:

1. Insight into the real working environment, workstations, plants, machines, systems, and interact with highly trained and experienced personnel
2. Interpersonal skills enhancement : enhanced interpersonal, communication skills, and teamwork abilities
3. Transformative experiences that mold well-rounded individuals prepared for the challenges of the professional world
4. New Friends, New places, New Goals & New Ambitions



## 11 Skill Development workshop on "Design, Assembly and Testing of Electric Board"

**Date:** 4<sup>th</sup> November, 2023

**Time:** 9.30 am onwards (whole day)

**Collaborating organization:** Indian Association of Physics Teachers, Mumbai Sub-Regional Council

**Name of the resource person:**

Dr. K. G. Bhole, Secretary, IAPT(8B), Mumbai

**Number of Participants:** 61

**Brief Description:** The workshop consisted of two sessions; the first session was about the theory of a basic electric board. Dr. Bhole sir explained the circuit and working of the board

Kelkar Education Trust's  
V.G. Vaze College of Arts, Science & Commerce (Autonomous)  
Re-accredited (4th cycle) by NAAC with "A" Grade

Department of Physics  
In collaboration with  
Indian Association of Physics Teachers (IAPT)  
Mumbai Sub-Regional Council (8 B)  
Organizes a one-day workshop on  
**"Design, Assembly and Testing of Electric Board"**  
Resource Person:  
**Dr. K. G. Bhole**  
Secretary, IAPT(SRC-8 B), Mumbai  
Date: Saturday, 4th November, 2023  
Time: 9:30 am  
Venue: Physics Lab

Dr. Suresh N. Kadam  
Head, Department of Physics,  
V. G. Vaze College

Dr. K. G. Bhole  
Secretary, IAPT (SRC-8B),  
Mumbai

CA Anil Naik  
Vice Principal,  
V. G. Vaze College

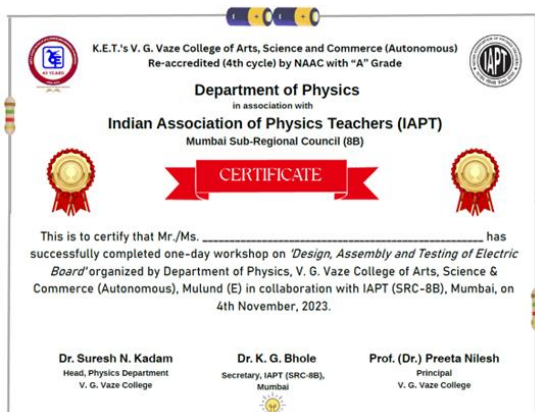
Prof. (Dr.) Preeti Nilesh  
Principal,  
V. G. Vaze College



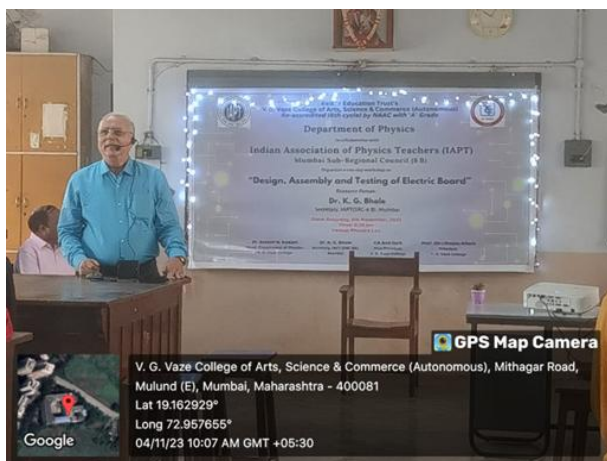
along with its components. The department provided all the participants with a kit which included the plastic electric board components with two sockets, wires, an electric tester, screws etc.

Second session of the workshop consisted of hands-on training where the participants built up an electric board from scratch. In the end all the electric boards were tested under supervision and were found to be working well. Students were allowed to take the board with them. Since the output voltage of this board is not very high it can be used for decorative lighting and similar devices.

**Sample certificate:**



**Photos:**





## 12 Guest lecture on “Basics on Arduino”

**Date:** 3rd January, 2024

**Time:** 1:30 pm to 3:30 pm

**Venue:** Physics lab

**No. of participants:** 17 (8 male, 9 female)


**Name of the resource person:** Mr. Vivek Singh, PhD scholar, NIT - Trichy

### Brief Description:


Arduino is an open-source electronics platform based on easy-to-use hardware and software that can be used by tinkerers, hobbyists, and makers to design and build devices that interact with the real world. This talk was intended to cover Arduino from scratch & provide innovative project ideas to both students and teachers.

The resource person gave a demonstrative introduction to Arduino and its applications. He gave information on Arduino based online open access resources such as <https://www.arduino.cc/en/Guide> . He also gave a short demo of the simulation software available on [www.tinkercad.com](http://www.tinkercad.com) .

**Photos:**



Kelkar Education Trust's  
V.G.Vaze College of Arts, Science & Commerce (Autonomous)

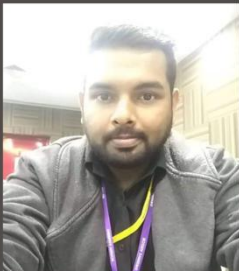


**Department of Physics Organises**  
A Guest Lecture on  
**“Basics of ARDUINO”**

**Date :**  
03/01/2024

**Time :**  
13.30 - 15.30

**Venue :**  
Department of Physics



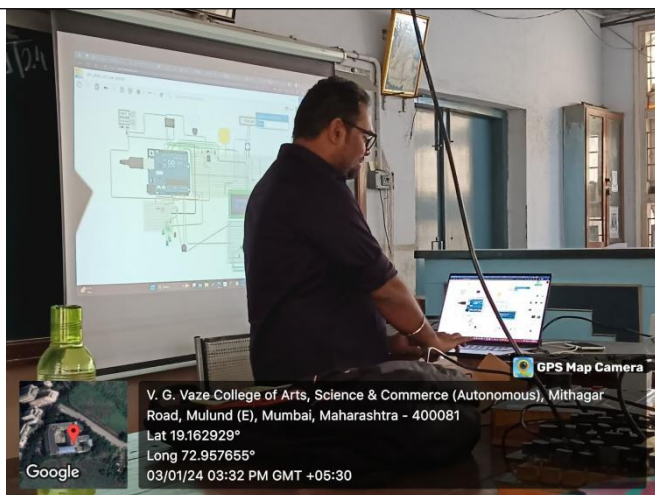
**Mr. Vivek Singh**  
NIT-TRICHY

Dr. Suresh Kadam  
HOD, Physics

C.A.Anil Naik  
Vice-Principal

Prof.Dr.Preeta Nilesh  
Principal





**13 Exhibition of Physics experiments on the occasion of National Science Day**

**Date:** 28<sup>th</sup> February, 2024

**Time:** 11:30 am to 1 pm

**Venue:** Physics lab

**No. of students involved:** 6 (from TY BSc Physics)

**No. of attendees:** 41

**Brief Description:**

Students of TY BSc Physics arranged an exhibition of some experiments based on important physics concepts. The experiments such as LASER diffraction, Young's Modulus by Koenig's method along with some electronics experiments were displayed as well as explained by them.

**Photos:**



**14 Workshop: Summer School in Collaboration with Indian Association of Physics Teachers (Mumbai Sub-Regional Council)**

**Duration:** 15th to 27th April, 2024

**Timing:** 9 am to 4:15 pm

**Venue:** E learning lab, 1st floor, KET's V. G. Vaze College of Arts, Science & Commerce (Autonomous)

**Number of students enrolled: total 22**  
2 (St. Xavier's), 4 (Ruia College),

**Resource Persons:**

1. Dr. K. G. Bhole (Electronics)
2. Mr. Mahesh Shetty (computer tools for simulation)
3. Dr. S. G. Bapat (Vector Algebra)
4. Dr. Kiran Kolwankar (Differential equations)
5. Mr. Ganesh Madkaikar (Thermodynamics)
6. Dr. Atul Modi (Optics)

**Brief description:**

The summer school aimed at developing conceptual understanding through problem solving in the following areas of physics – Electronics, Optics,



**Indian Association of Physics Teachers**

Mumbai Sub-Regional Council (8B)



In collaboration with

**K.E.T.'s V. G. Vaze College of Arts, Science & Commerce (Autonomous), Mulund, Mumbai**  
announces

**IAPT Summer-School 2024**

I.A.P.T. Mumbai Sub-Regional Council is announcing its annual Summer-School for 2024. The school aims at developing conceptual understanding through problem solving in following areas of physics – Electronics, Optics, Mathematical Techniques and Thermodynamics. It is open to any interested physics learner. The prerequisite is up to first year B.Sc. Syllabus.

**Duration:** 15<sup>th</sup> April 2024 to 27<sup>th</sup> April 2024 (excluding 17<sup>th</sup> and 21<sup>st</sup> April)  
**Time:** 9:00 am to 4:00 pm  
**Venue:** K.E.T.'s V. G. Vaze College (Autonomous), Mithagar Road, Mulund (East), Mumbai 400081

**Registration Link:** <https://forms.gle/hWbJYQA4xxN53JlJ8>

**Fees: Rs. 1000/- (Rupees One Thousand only)**  
Pay the fees through NEFT to the given bank account.  
Upload the image of transaction ID / receipt received from the bank in the registration form  
*(Students may bring lunch from home. Complimentary Tea will be provided.)*

**Bank account details:**  
Bank name: Bank of Maharashtra  
Branch name: T H K Marg, Mahim, Mumbai  
Account name: IAPT Mumbai Sub-regional Council  
Account number: 20073818794  
IFSC: MAHB0000093

**Note: Without transaction ID the registration will not be accepted. Register before: 1<sup>st</sup> April 2024**

**For any difficulties you may contact any of these teachers:**

- 1) Dr. Suresh Kadam (Head, Physics Department, Vaze College), Summer School Coordinator – 9511858716/ 9892904056
- 2) Dr. K. G. Bhole (Secretary, I.A.P.T. Mumbai) – 9820551156
- 3) Dr. Atul Mody (President, I.A.P.T. Mumbai) – 7774030403
- 4) Dr. Shyamala Bodhane (Treasurer, I.A.P.T. Mumbai) – 9869336624
- 5) Mr. A. M. Shaker (K. J. Somaiya college, Vice President, I.A.P.T. Maharashtra) – 9869612993
- 6) Ms. Hemlata Deshpande (Member, I.A.P.T. Mumbai) – 9324620547
- 7) Mr. Mahesh Shetti (Wilson College, EC Member, I.A.P.T. Mumbai) – 91672 09329

**Dr. Suresh N. Kadam**  
Co-ordinator & Head, Department of Physics, KET's V.G. Vaze College (Autonomous)

**Dr. K. G. Bhole**  
Secretary, IAPT, Mumbai

**Prof. Dr. Preeta Nilesh**  
Principal, KET's V.G. Vaze College (Autonomous)



Mathematical Techniques and Thermodynamics. It was open to any interested physics learner. The prerequisite is up to first year B.Sc. Syllabus. The outcomes of the summer school were as follows:

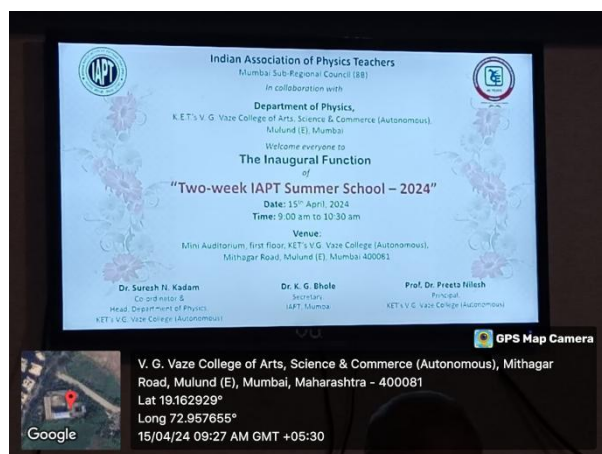
1. Covered important topics from undergraduate physics syllabus and developed conceptual understanding, problem solving skills
2. Facilitated student's active participation by giving them tutorials
3. Provided summer school as a bridge between current and next year's curriculum
4. Conducted practical sessions to help familiarize with the laboratory
5. Organized guest lectures by eminent resource persons on advanced and interesting physics topics throughout the duration of summer school
6. Provided certificate of completion to the students who successfully completed the whole program

### Sample certificate:



### Photos:

#### Inaugural function (Venue: mini auditorium)



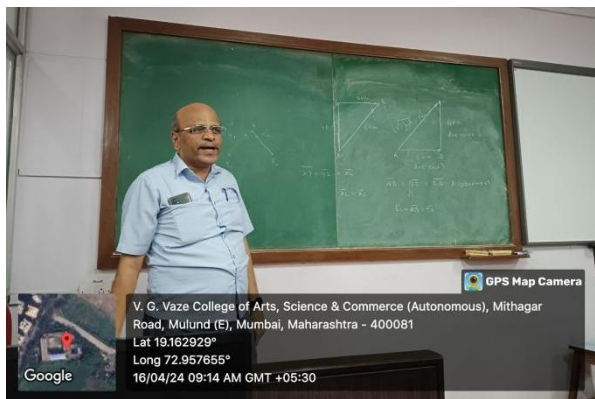
Address by Dr. Suresh Kadam, HOD and Dr. Manoj Mahajan, Asst. Prof. Department of Physics



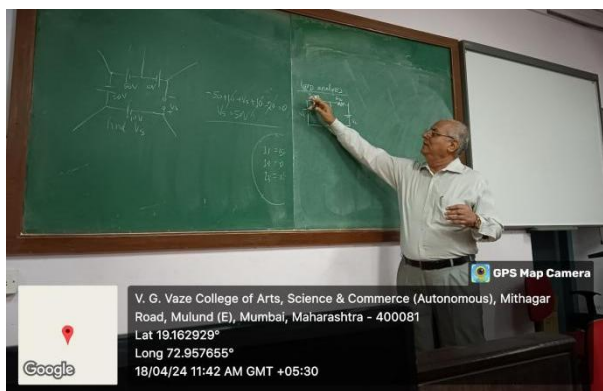
**Prof. Rekha Ghorpade (National general Secretary, IAPT) & Dr. K. G. Bhole (Regional general secretary)**



**Resource person for the topic of 'Vector Algebra & analysis' Dr. S. G. Bapat**



**Resource person for the subject of electronics Dr. K. G. Bhole**





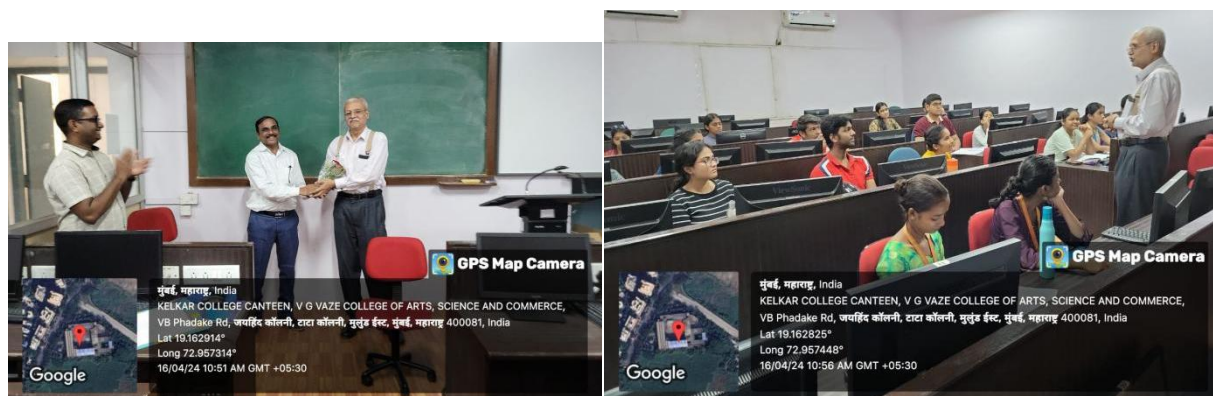
## Resource person for the subject of computer tools for physics, Prof. Mahesh Shetti



## Resource person for the subject of Thermodynamics, Prof. Ganesh Madkaikar



## Resource person for the subject of optics, Dr. Atul Modi



## Resource person for the topic of Differential equations, Dr. Kiran Kolwankar



## Student participants



**15 Guest lecture: "Role of Nano-materials in Science and Technology"**

**Resource person:** Dr. Mahendra M. Khandpekar

**Date:** 16<sup>th</sup> April, 2024

**Time:** 2:45 pm to 4:30 pm

**Venue:** E-Learning lab, 1st floor

**Topic:** Role of Nano-materials in Science and Technology

**Brief Description:**

Dr. Mahendra Khandpekar gave an engaging talk on nanomaterials and their applications. The talk began with comparison of normal size pictures and magnified images of different objects and animals in nature. Because of his focus on nanto-technology's applications in daily life, students found it very interesting and interacted with the speaker freely.

**Geotagged photos:**



**16 Guest lecture: "Some simple physics investigations at home"**

**Resource person:** Dr. Vijay Raibagkar, Science communicator

**Date:** 22<sup>nd</sup> April, 2024



**Time:** 2:45 pm to 4:30 pm

**Venue:** E-Learning lab, 1st floor

**Topic:** Some simple physics investigations at home

**Brief Description:**

Dr. Raibagkar's main purpose of the talk was to motivate students to pursue experimental physics and to enable them to see how physics principles apply to every situation, big or small. He demonstrated the same using a few project ideas such as "scientifically finding the parameters that affect the optimal wash in a washing machine" or "study friction on road", "physics in the kitchen", etc.

The college's former professor Dr. Ghatpande was also present as a guest for the talk and interacted with the students.

**Geotagged photos:**



HOD Dr. Kadam welcoming Dr. Vijay Raibagkar and Prof. Ghatpande



**mechanics"**

**Resource person:** Dr. Hemant Salunkhe

**Date:** 27<sup>th</sup> April, 2024

**Time:** 2:45 pm to 4:30 pm

**Venue:** Mini Auditorium, 1st floor

**Title:** Some interesting phenomena in thermodynamics leading to quantum mechanics

**Brief Description:** The speaker gave a brief overview of the research avenues in Thermodynamics and Quantum Mechanics. The students got the opportunity to interact and get their queries solved. The lecture was followed by the Valedictory function of Summer School.

**Photos:**



**18 Guest lecture: "How" and "Why" in Astronomy & a live demonstration of Telescope Handling**  
**Resource Person:** Mr. Pritesh Ranadive, Scientific Officer, HBCSE

**Date:** 26th April, 2024

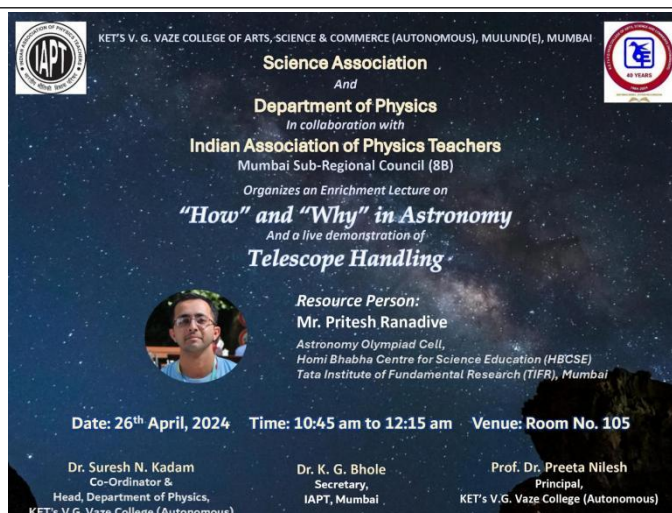
**Time:** 2:45 pm to 4:30 pm

**Venue:** Physics lab, 1st floor

**Brief Description:**

Mr. Pritesh Ranadive answered some fundamental questions about outer space and how astronomy is studied. He also showed an astronomical telescope and gave students a brief demo of the same.

**Photos:**







*Neeta Mehra*  
**I.Q.A.C. CO-ORDINATOR**  
**KET'S V.G. Vaze College of**  
**Arts, Science and Commerce**  
**Mulund (E), Mumbai-400 081.**



*Heetaiff*  
**Principal**  
**V. G. Vaze College (Autonomous)**  
**Mulund - East, Mumbai - 400 081.**