



The Kelkar Education Trust's  
**Vinayak Ganesh Vaze College of Arts, Science & Commerce**

**AUTONOMOUS**

Mithaghar Road, Mulund East, Mumbai-400081, India

**College with Potential for Excellence**

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**Syllabus for Program F.Y. B. A.**

**Psychology Major & Minor**

Syllabus as per Choice Based Credit System (NEP-2020)

**(June 2024 Onwards)**

**Submitted by**

**Department of Psychology**

**Vinayak Ganesh Vaze College of Arts, Science and Commerce**

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**Vinayak Ganesh Vaze College of Arts, Science & Commerce**  
(AUTONOMOUS)

❖ **Syllabus as per Choice Based Credit System (NEP-2020)**

Name of the Programme	❖ <b>F. Y. B. A. Psychology: CBCS (NEP-2020)</b>	
<p><b>The F. Y. B. A. in Psychology course is a one Year Full Time Course consisting of two semesters, to be known as Semester I and Semester II. Each semester consists of one major course and one minor course along with other courses- OE, VSEC, AEC, FP, CEP and CC</b></p>		
1. Course Code	VGUVAMPSY101	VGUVAMPSY201
	VGUVAVSE106	VGUVAVSE206
2. Course Title	PSYCHOLOGY MAJOR AND MINOR	
3. Semester wise Course Contents	Copy of the detailed syllabus Enclosed	
4. References and additional references	Enclosed in the Syllabus	
5. No. of Credits per Semester	4	
6. No. of lectures per Unit	10 Hrs.	
7. No. of lectures per week	12	
8. No. of Tutorial per week	--	
9. Scheme of Examination	Semester End Exam: <b>60 marks</b> (4 Questions of 15 marks each)	
	Internal Assessment : <b>40 marks</b>	
	Class Test : 15 marks	
	Project/ Assignment : 15 marks	
	Class Participation : 10 marks	
10. Special notes, if any	No	
11. Eligibility, if any	As laid down in the College Admission brochure / website	
12. Fee Structure	As per College Fee Structure specifications	
13. Special Ordinances / Resolutions, if any	No	

**Programme Structure and Course Credit Scheme:**

SEMESTER	MAJOR		MINOR	OE	VSC/SEC	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	TOTAL	CUM. CR/SEM
	Mandatory	Elective							
I	4 (4L) (2 PAPER)	--	4(4L) (1 PAPER)	4 (3L+1P)/4 L (1PAPER)	VSEC 4 L (1 PAPER)	AEC, VEC, IKS (1PAPER EACH)	-	22	20-22
II	4 (4L) (1 PAPER)	--	4(4L) (1 PAPER)	4 (3L+1P)/ 4L (1PAPER)	VSEC 4 L (1 PAPER)	AEC, VEC (1PAPER EACH)	CC	22	20-22
<b>TOTAL</b>	<b>8</b>		<b>8</b>	<b>8</b>	<b>4</b>	<b>10</b>	<b>2</b>	<b>44</b>	
<b>CU.CR</b>	<b>8</b>		<b>8</b>	<b>8</b>	<b>4+4</b>	<b>6+4</b>	<b>2</b>	<b>44</b>	<b>40-44</b>

**Programme: F. Y. B. A.**

Semester	Course	Course Title	Course Code	Credits
I	Major	Course 1: FUNDAMENTALS OF PSYCHOLOGY: BASIC CONCEPTS AND PROCESSES	VGUVAMPSY101	4
		Minor (ANY ONE)	1. History	VGUVANHIS101
	2. Political Science		VGUVANPOL101	4
	3. Economics		VGUVANECO101	4
	4. Sociology		VGUVANSOC101	4
	Open Elective (OE) (ANY ONE)	Cosmetology decoded by Botanicals I (Botany Dept)	VGVUOE104	2
		Chemistry in Daily Life-I (Dept of Chemistry)	VGVUOE103	2
		Principles of Management (Dept of Commerce)	VGVUOE108	2
		Economic Geography of the world (EVS dept)	VGVUOE105	2
		Basic Statistics (Dept. of Mathematics)	VGVUOE102	2

		Basics of Domestic Appliances and their Maintenance	VGVUOE101	
		Wildlife ecotourism and entrepreneurship (Zoology dept)	VGVUOE111	
	Vocational skill Courses (VSEC)	Research Methods In Psychology	VGVUAVSE106	2
	Ability Enhancement Courses (AEC) (ANY ONE)	Business Communication 1 (Dept of English)	VGVUAE101	2
	Value Education Course	भारतीय संस्कृति का अध्ययन ( Department of Hindi)	VGVUVE101	2
		Constitution of India (Dept. of History)	VGVUVE104	2
	Indian Knowledge System (IKS)	Ayurvedic Botany (Dept of Botany)	VGVUIKS104	2
		Indian Mythology in Translation (Dept of English)	VGVUIKS109	2
		Indian Approaches to Disaster Management (Dept of EVS)	VGVUIKS108	2
		Environmental Awareness in India (Dept of EVS)	VGVUIKS105	2
		Ancient India: Science and Culture (Dept of History)	VGVUIKS103	2
		Student will select any one from Co-curricular Courses		
		Total Credits		
II	Major	COURSE 1: FUNDAMENTALS OF PSYCHOLOGY: THEORIES AND PERSPECTIVES	VGVUAMPSY201	4
	Minor	History	VGVUANHIS201	4
		Political Science	VGVUANPOL201	4
		Economics	VGVUANECO201	4
		Sociology	VGVUANSOC201	4
	Open Elective (OE) ONE COURSE FROM THE SAME	Indoor gardening, I (Dept of Botany)	VGVUOE207	2
		Chemistry in Daily Life-II (Dept of Chemistry)	VGVUOE202	2
		Introduction to Marketing & HRM (Dept of Commerce)	VGVUOE208	2

	DEPARTMENT AS SEM III OE	Commercial Geography of the world (EVS dept)	VGVUOE203	2
		Data Analytics (Dept. of Mathematics)	VGVUOE204	2
		Basics of Domestic Appliances and their Maintenance	VGVUOE201	
		Scientific Communication (Zoology dept)	VGVUOE209	
	Vocational Skill Enhancement Courses (VSEC)	Statistics in Psychology	VGVUAVSE206	2
	Ability Enhancement Courses (AEC)	Business Communication 2 (Dept of English)	VGVUAE201	2
	Value Education Course	Understanding India (Department of Hindi)	VGVUVE201	2
		Human Rights (Dept. of History)	VGVUVE204	2
	Co-Curricular	Community Engagement Activities	VGVUCC201	2
		Cultural Activities	VGVUCC202	2
		National Service Scheme (NSS)	VGVUCC203	2
		Sports Activities	VGVUCC204	2
		Yoga	VGVUCC205	2
		Student will select any ONE Co-Curricular Course		
Total Credits			22	

❖ Semester-wise Details of Psychology Course

<b>Semester – I</b>									
Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA) 40 marks			End Semester Examination Marks		Total
Course	L Hrs	P Hrs	Credit	CIA-1	CIA-2	CIA-3	Theory	Practical	
Major	04	---	4	15	15	10	100	NA	100
Minor	04	---	4	15	15	10	100	NA	100

VSEC	02	2	2	---	--	---	----	100	100
OE	03	01	2	15	15	10	100	---	100
AEC	02	----	2	15	35	----	NA	NA	50
VEC	02	4	2	15	15	----	----	-----	50
IKS	02	4	2	15	15	20	----	----	50
Total	17	10	22	---	----	---	----	-----	650

CIA-II : Assignment/Project

CIA-III : APICID &A

Max. Time, End Semester Exam (Theory) : 2 .00 Hrs.

### Semester – II

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA) 40 marks			End Semester Examination Marks		Total
Course	L Hrs	P Hrs	Credit	CIA-1	CIA-2	CIA-3	Theory	Practical	
Major P-I	04	---	4	15	15	10	100	NA	100
Minor	04	---	4	15	15	10	100	NA	100
VSEC	04	---	2	---	--	---	----	100	100
OE	03	01	2	15	15	10	100	---	100
AEC	02	----	2	15	35	----	NA	NA	50
VEC	02	4	2	15	15	----	----	-----	50
CC	----	---	2	15	15	20	----	----	50
Total	17	10	22	---	----	---	----	-----	650

CIA-II : Assignment/Project

CIA-III : APICID &A

Max. Time, End Semester Exam (Theory) : 2 .00 Hrs.

- L - Lectures
- T - Tutorials
- P - Practical

➤ C - Credits

**PROGRAM OUTCOMES FOR BACHELOR OF ARTS(BA)**

After completing Bachelor's Degree in Arts, graduates will able to...

- exhibit a deep understanding of the core concepts and theories in their respective discipline (Economics/Psychology/Sociology/Political Science/History/English Literature, Marathi literature/Hindi Literature).
- demonstrate the ability to analyse complex issues, think critically, and solve problems in their respective fields ((Economics/Psychology/Sociology/Political Science/History/English Literature, Marathi literature/Hindi Literature).
- show competency in conducting research, gathering and analysing data, and presenting research findings using appropriate methodologies.
- recognize the ethical and social responsibilities associated with their fields of study and be able to apply ethical principles to real-world situations.
- effectively communicate their ideas and findings in both written and oral forms, demonstrating proficiency in academic and professional communication.

**PROGRAM SPECIFIC OUTCOMES FOR BACHELOR OF ARTS (BA)**

**DEPARTMENT OF PSYCHOLOGY**

Students will be able to ...

**PSO1:** Understand basic concepts and modern trends in the various fields of Psychology

**PSO2:** Develop a compassionate approach and empathize with people having minor or major psychological issues.

**PSO3:** Apply the knowledge of psychological principles to address various psychosocial issues in various settings.

**PSO4:** Undertake research in the various fields of Psychology.

**PSO5:** Understand and commit to the ethical guidelines prescribed by professional regulatory bodies.

**PSO6:** Pursue higher education in the field of psychology.

**S. Y. B.A Psychology: Choice Based Credit System****Semester- I****PAPER-I**

<b>Course Name: Fundamentals of Psychology: Basic Concepts and Processes</b>			<b>Course Code</b> VGVUANPSY101	
<b>Periods per week (1 period 60 minutes)</b>			<b>04</b>	
<b>Credits</b>			<b>04</b>	
<b>Evaluation System</b>		<b>Hrs</b>	<b>Marks</b>	
	<b>Theory Examination</b>		<b>2.0</b>	<b>60</b>
	<b>Internal</b>			<b>40</b>

**Course Content**

<b>Unit No.</b>	<b>Content</b>	<b>Lectures</b>
Unit 1. <b>Introduction to Psychology and Motivation and Emotions</b>	Psychology as a Science Psychologists at Work Psychology's Key Issues and Controversies  <b>Motivation</b> Defining Motivation Approaches to Understanding Motivation Human Needs and Motivation: Eat, Drink and Be Daring  <b>Emotions</b> Defining Emotions Understanding Emotional Experiences Functions of Emotions Labeling our Feelings Roots of Emotions Culture and Emotions: Emotions in the Indian Tradition	12
Unit 2. <b>Sensation and Perception</b>	<b>Sensation</b> Absolute Thresholds Difference Thresholds Sensory Adaptation  <b>Perception</b>	11



	<p><b>Constructing Our View of the World</b>  The Gestalt Laws of Organization  Top-down and Bottom-up Processing  Depth Perception  Perceptual Constancy  Motion Perception  Perceptual Illusions</p> <p><b>States of Consciousness</b>  Sleep and Dream</p>	
<p>Unit 3.  <b>Memory and Intelligence</b></p>	<p><b>Memory</b>  The Foundations of Memory  Three Basic Processes  Models of Memory  Recalling Long-Term Memories  Constructive Processes in Memory  Forgetting: When Memory Fails</p> <p><b>Intelligence</b>  What is intelligence?  Theories of Intelligence:  Practical and Emotional Intelligence  The Nature/Nurture Issue Regarding Intelligence</p>	11
<p>Unit 4.  <b>Thinking, Problem Solving and Language</b></p>	<p><b>Thinking and Reasoning</b>  Mental Images  Concepts  Reasoning</p> <p><b>Problem Solving</b>  Preparation: Understanding and Diagnosing Problems  production: Generating Solutions  Judgment: Evaluating Solutions  impediments to Solutions  Creativity and Problem Solving</p> <p><b>Language</b>  The Levels of Language Analysis  Language Development  Understanding Language Acquisition  The Relationship between Language and Thought</p> <p>Animal Studies in Language</p>	11
	Total Number of Lectures	45

## Course Objectives:

- 1) To expose students to basic concepts and cognitive processes determining human behaviour.
- 2) To help students understand theoretical foundation and research studies related to these cognitive processes.
- 3) To help students explore the relevance and applications of these psychological concepts in day-to-day life.
- 4) To create a foundation for and foster interest in further study in Psychology.
- 5) To create a foundation for and foster interest in further study in Psychology

## Course Outcomes

### After completing this course, student will able to...

- 1) Understand psychology as a science and its key issues
- 2) Comprehend the basic concepts and cognitive processes in Psychology.
- 3) Appraise theoretical foundation and research studies related to these cognitive processes
- 4) See the relevance and applications of these psychological concepts in day-to-day life.
- 5) Feel interested and motivated to pursue further study in the field of Psychology.

## References

- 1) Feldman, R. S. (2017). *Essentials of Understanding Psychology*, (12<sup>th</sup> edition). New Delhi: Tata McGraw Hill
- 2) Ciccarelli, S. K., & White, J. N. Adapted by Girishwar Misra (2018). *Psychology*. 5<sup>th</sup> ed. New Delhi: Pearson Education
- 3) Passer, M.W. & Smith, R. E. (2007). *Psychology: The Science of Mind and Behaviour*. 3<sup>rd</sup> Edition. New Delhi: Tata McGraw Hill Publishing Company Ltd.
- 4) Baron, R. A., & Misra, G. (2016). *Psychology*. (5<sup>th</sup> Edition). India: Pearson India Education Services Pvt Limited
- 5) Ciccarelli, S. K. & Meyer, G. E. (2008). *Psychology*. New Delhi: Dorling Kindersley (India) pvt ltd.
- 6) Pinel, J. P. J. (2012). *Biopsychology*. 6<sup>th</sup> Edition. New Delhi: Dorling Kindersley (India) Pvt Limited
- 7) Rathus, S. A. (2018). *Psych: Introductory Psychology*. (5<sup>th</sup> Edition). Delhi: Cengage Learning India Pvt Limited
- 8) Myers, D. G. (2013). *Psychology*. 10<sup>th</sup> edition. Delhi: Macmillan Publishers India Limited
- 9) Smith, E. E; Nolen-Hoeksema, S. Fredrickson, B & Loftus, G. R. (2003). Atkinson & Hilgards's *Introduction to Psychology*. (14<sup>th</sup> Edition) Singapore: Thomson- Wadsworth
- 10) Wade, C. & Tavris, C. (2007). *Psychology*. (8<sup>th</sup> ed.). New Delhi: Dorling Kindersley (India) Pvt Limited

## Syllabus Prepared by:

1. Dr. Neeta Mehta, Head and Associate Professor, Department of Psychology & Chairperson, BOS, Vaze College (Autonomous)
2. Ms. Reeta Kamble, Assistant Professor, Department of Psychology & Member, BOS, Vaze College (Autonomous)
3. Ms. Sharvari Gupte, Assistant Professor, Department of Psychology & Member, BOS, Vaze College (Autonomous)

<b>S. Y. B.A Psychology: Choice Based Credit System</b>			
<b>Semester- I</b>			
<b>Vocational Skill Enhancement Course (VSEC)</b>			
<b>Course Name: Research Methods in Psychology</b>			<b>Course Code VGVUAVSE106</b>
<b>Periods per week (1 period 60 minutes)</b>			<b>02</b>
<b>Credits</b>			<b>02</b>
<b>Evaluation System</b>		<b>Hrs</b>	<b>Marks</b>
	<b>Theory Examination</b>	<b>2.0</b>	<b>30</b>
	<b>Internal</b>		<b>20</b>

<b>Course Content</b>		
Unit 1. <b>Beginning Psychological Research: Search and Ethics</b>	<ul style="list-style-type: none"> <li>a. Introduction               <ul style="list-style-type: none"> <li>1. Overview of the scientific method and its application in psychology.</li> <li>2. Understanding the goals and principles of psychological research.</li> <li>3. Methodological Issues: Internal Validity and External Validity of Research</li> </ul> </li> <li>b. Search for Ideas, Literature Review and Developing the Research Proposal               <ul style="list-style-type: none"> <li>1. Sources of Research Ideas</li> <li>2. Developing and Evaluating a Research Question/ Research Problem</li> <li>3. Reviewing the Literature</li> <li>4. Specifying the Variables</li> <li>5. Generating Testable Hypotheses</li> <li>6. Conducting Pilot Research</li> </ul> </li> </ul>	12

	<p>c. Research Proposal Writing: APA (American Psychological Association) style guidelines.</p> <p>d. Ethical Issues in Conducting of Psychological Research</p>	
<p>Unit 2.</p> <p><b>Psychological Research Methods and Tools</b></p>	<p>Psychological Research Methods</p> <p>Differentiating between Qualitative and Quantitative Approaches to research.</p> <ol style="list-style-type: none"> <li>1. Qualitative Approaches to Research</li> <li>2. Nonexperimental Research <ul style="list-style-type: none"> <li>○ Observational Research</li> <li>○ Correlational Research</li> <li>○ Archival Research</li> <li>○ Case Study and Survey Research</li> </ul> </li> <li>3. Experimental Research: Laboratory/ Quasi, Basic and advanced</li> </ol> <p>Tools of Psychological Research</p> <ol style="list-style-type: none"> <li>1. Apparatus and Stimulus Material</li> <li>2. Interviews, Focus Groups, Questionnaire, Behavioural Coding, Rating Scales and Standardized Tests and Inventories, Psychophysiological measures.</li> <li>3. Personal Documents and Archival Measures</li> </ol> <p>Using the Internet</p>	<p>11</p>
<p>Unit 3.</p> <p><b>Sampling and Treatment of Data</b></p>	<p>Sampling</p> <ol style="list-style-type: none"> <li>1. Types of Samples</li> <li>2. Issues related to sample size and representativeness.</li> <li>3. Participant recruitment</li> <li>4. Dealing with biases and confounding variables.</li> </ol> <p>Treatment of Data: Statistical concepts and techniques used in psychological research</p> <ol style="list-style-type: none"> <li>1. Descriptive Statistics</li> <li>2. Inferential Statistics</li> </ol> <p>Qualitative Data Analysis</p>	<p>11</p>

Unit 4. <b>Practical Component</b>	Research Proposal Writing using the inputs received in Unit 1, 2 and 3	11
	<b>Total No. of Lectures</b>	25

### **Course Objectives**

- 1) To help students comprehend process of psychological enquiry. That is, to help students understand how do psychologists go about finding out principles of human thinking, feeling and behaviour.
- 2) To help students understand how psychological research is designed and carried out and also how the report on the research is written and published. More specifically, students will be introduced to the process of literature review; psychological research methods and tools; sample identification and recruitment; data collection; analysis, interpretation of data and drawing of conclusions.
- 3) To acquaint students with ethical principles that must be followed while researching.
- 4) To introduce students to research proposal writing.

### **Course Outcomes:**

#### **After completing this course, student will able to...**

1. comprehend the entire research cycle, along with various dimensions of its stages.
2. understand strengths and limitations of various research methods and tools of psychological research.
3. value the significance of appropriate sampling strategy in psychological enquiry.
4. develop skills demanded for writing research proposal.

### **References:**

#### **Textbook**

Coolican, H. (2006) *Introduction to Research Methods in Psychology*. Great Briton: Hodder Arnold-150.194 COO (31471)

Kothari, C. R. (2002) *Research Methodology: Methods and Techniques*. New Delhi: Wishwa Prakashan

#### **Reference Books**

Agarwal, Chetan & Sharma, Vijay (2012). *Research Methods in Psychology*. Delhi: Commonwealth Publishers Pvt Ltd - 150, AGA/SHA (39781)

Elmes, David, G.; Kantowitz, Barry H. and Roediger III, Henry L. (2013). *Research Methods in Psychology*. New York: Brooks/Cole Publishing Company - 150.724, ELM (18797)

Kerlinger, Fred N. (2009). *Foundations of Behavioural Research*. New York: Harcourt Brace Jovanovich College Publishers - 150.7943, KER (12635)

McBurney, Donald H. (2001). *Research Methods*. USA: Wadsworth-Thomson Learning -150.72 MCB (30878)

**Syllabus Prepared by:**

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## S. Y. B.A Psychology: Choice Based Credit System

### Semester- II

### PAPER-I

<b>Course Name: Fundamentals of Psychology: Theories and Perspectives</b>			<b>Course Code</b> VGUVAMPSY201
<b>Periods per week (1 period 60 minutes)</b>			<b>04</b>
<b>Credits</b>			<b>04</b>
Evaluation System		Hrs	Marks
	<b>Theory Examination</b>	<b>2.0</b>	<b>60</b>
	<b>Internal</b>		<b>40</b>

### Course Content

Unit 1.  <b>Biological, Evolutionary and Trait Perspective</b>	<b>Biological Perspective</b> Neurocognition of Behaviour Neurons: The Basic Elements of Behaviour The Nervous System and Endocrine System: Communicating within the Body The Brain Heredity and Temperament <b>Evolutionary Perspective</b> <b>Trait Theories (Feldman)</b> Gordon Allport Raymond Cattle Hans Eysenck  The Big Five Personality Traits	12
Unit 2.  <b>Psychodynamic Perspective</b>	<b>Psychoanalytic Perspective</b> Sigmund Freud  <b>The Neo-Freudians</b> Object Relations Theory Carl Jung Alfred Adler Erik Erikson	11

	Karen Horne	
Unit 3.  <b>Behavioural and Cognitive Perspective</b>	<p><b>Behavioural Perspective</b> Classical Conditioning (Ciccarelli) Operant Conditioning (Ciccarelli) Bandura's Observational Learning</p> <p><b>Cognitive Perspective</b> Bandura's Social-Cognitive Theory Rotter's Social Learning Theory (Ciccarelli) Tolman's Latent Learning Seligman's Attribution Theory Albert Ellis's Theory</p> <p>Aaron Beck Theory</p>	11
Unit 4.  <b>Humanistic and Socio-cultural Perspective.</b>	<p><b>Humanistic Perspectives.</b> Carl Rogers' Self-Theory Abraham Maslow's self-actualization Gestalt Viewpoint Existentialism</p> <p><b>Socio-cultural Perspective</b> Lev Vygotsky's Theory Urie Bronfenbrenner's Ecological Systems Theory</p>	11
	Total Number of Lectures	45

### Course Objectives

1. To acquaint students to the foundational and modern theories and perspectives explaining human behaviour
2. To help students appreciate the complexity of human behaviour through the lens of biological, psychological and sociocultural viewpoints.
3. To help the students understand strengths and limitations of these theories and perspectives.
4. To make the students aware of the relevance and applicability of these theories and perspectives in day-to-day life.
5. To create a foundation for and foster interest in further study in Psychology.



## Course Outcomes

### Students should be able to...

1. Understand the foundational and modern theories and perspectives explaining human behaviour
2. Use contrasting lens of various viewpoints to gain complexity of human behaviour
3. Critically evaluate each theory and perspective
4. See the relevance and application of these psychological theories and perspectives to understand various phenomena in day-to-day life.
5. Feel interested and motivated to pursue further study in the field of Psychology

### References:

- 1) Feldman, R. S. (2017). *Essentials of Understanding Psychology*, (12<sup>th</sup> edition). New Delhi: Tata McGraw Hill
- 2) Ciccarelli, S. K., & White, J. N. Adapted by Girishwar Misra (2018). *Psychology*. 5<sup>th</sup> ed. New Delhi: Pearson Education
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- 4) Baron, R. A., & Misra, G. (2016). *Psychology*. (5<sup>th</sup> Edition). India: Pearson India Education Services Pvt Limited
- 5) Ciccarelli, S. K. & Meyer, G. E. (2008). *Psychology*. New Delhi: Dorling Kindersley (India) pvt ltd.
- 6) Pinel, J. P. J. (2012). *Biopsychology*. 6<sup>th</sup> Edition. New Delhi: Dorling Kindersley (India) Pvt Limited
- 7) Rathus, S. A. (2018). *Psych: Introductory Psychology*. (5<sup>th</sup> Edition). Delhi: Cengage Learning India Pvt Limited
- 8) Myers, D. G. (2013). *Psychology*. 10<sup>th</sup> edition. Delhi: Macmillan Publishers India Limited
- 9) Smith, E. E; Nolen-Hoeksema, S. Fredrickson, B & Loftus, G. R. (2003). Atkinson & Hilgard's *Introduction to Psychology*. (14<sup>th</sup> Edition) Singapore: Thomson- Wadsworth
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## S. Y. B.A Psychology: Choice Based Credit System

### Semester- II

#### Vocational Skill Enhancement Course (VSEC)

<b>Course Name: Statistics in Psychology</b>		<b>Course Code VGVUAVSE206</b>	
<b>Periods per week (1 period 60 minutes)</b>		<b>02</b>	
<b>Credits</b>		<b>02</b>	
<b>Evaluation System</b>		<b>Hrs</b>	<b>Marks</b>
	<b>Theory Examination</b>	<b>2.0</b>	<b>30</b>
	<b>Internal</b>		<b>20</b>

#### Course Content

<p><b>Unit 1.</b></p> <p><b>A) Types of scores, Types of scales, Frequency Distribution, Graphic representations</b></p> <p><b>B) Measures of Central Tendency</b></p>	<p><b>a. Types of Scores</b> Continuous and Discrete Scores – Meaning and Difference</p> <p><b>b. Scales of Measurement</b></p> <p><b>c. Preparing a Frequency Distribution;</b> Advantages and Disadvantages of Preparing a Frequency Distribution; Smoothed Frequencies: Method of Running Averages</p> <p><b>d. Graphic Representations:</b> Frequency Polygon, Histogram, Cumulative Frequency Curve, Ogive, Polygon of Smoothed Frequencies</p> <p><b>e. Summarization of data through descriptive statistics -</b> Calculation of mean, median and mode of a frequency distribution; The assumed mean method for calculating the mean</p> <p><b>Comparison of measures of central tendency:</b> Merits, limitations, and uses of mean, median and mode</p>	12
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<p>Unit 2</p> <p><b>A) Concept of Probability, Normal Probability Curve, Skewness and Standard Scores</b></p> <p><b>B) Measures of Variability</b></p>	<p><b>The concept of Probability; laws of Probability</b></p> <ol style="list-style-type: none"> <li>1. Characteristics, importance and applications of the Normal Probability Curve; Area under the Normal Curve</li> <li>2. Skewness - positive and negative, causes of skewness, formula for calculation; Kurtosis - meaning and formula for calculation</li> <li>3. <b>Standard scores</b> – Z, T, Stanine; Linear and non-linear transformation; Normalised Standard scores</li> </ol> <p><b>Calculation of 4 measures of variability:</b></p> <ol style="list-style-type: none"> <li>1. Range, Average Deviation, Quartile Deviation and Standard Deviation</li> <li>2. Comparison of 4 measures of Variability: Merits, Limitations and Uses.</li> <li>3. Calculation of Percentile ranks and Percentile Scores.</li> <li>4. Percentiles – nature, merits, limitations, and uses.</li> </ol>	<p>11</p>
<p>Unit 3.</p> <p><b>Correlation, Scatterplots, Regression Drawing Conclusions through Inferential statistics</b></p>	<p><b>Understanding data through Associational Statistics</b></p> <ol style="list-style-type: none"> <li>a. Meaning and Types of Correlation, Factors Affecting Correlation; Graphic representations of Correlation - Scatterplots</li> <li>b. Calculation of Pearson’s Product-Moment Correlation Coefficient</li> <li>c. Calculation of Rho by Spearman’s Rank-Difference Method</li> <li>d. Uses and Limitations of Correlation Coefficient</li> </ol> <p>Simple Regression and Multiple Regression</p> <ol style="list-style-type: none"> <li>a. Hypothesis Testing</li> <li>b. Parametric Tests <ul style="list-style-type: none"> <li>○ t test</li> <li>○ ANOVA</li> </ul> </li> <li>c. Non-parametric Tests</li> </ol> <p>Chi Square</p>	<p>11</p>
<p>Unit 4.</p> <p><b>Practical Unit</b></p>	<p><b>Research Conduction:</b> Data collection, Graphic Representation, Application of Inferential Statistics and Interpretation</p>	<p>11</p>
	<p><b>Total No. of Lectures</b></p>	<p>45</p>

## Course Objectives

- 1.To acquaint students with basic concepts in statistics in Psychology.
- 2.To orient students to the various measures of descriptive and associational statistics – their uses, applications and methods of calculation (manual and Excel).
- 3.To introduce the concept of probability and characteristics of Normal Distribution Curve.
- 4.To help students understand inferential statistics - its uses, applications and methods of calculation.
- 5.To create a foundation for advanced learning in Statistics in Psychology.

## Course Outcomes

### Students should be able to...

1. Demonstrate understanding of the basic concepts of statistics in Psychology
2. Summarize and interpret data using descriptive and associational statistics
3. Analyze characteristics of data using the principles of probability and normal distribution curve
4. Apply inferential statistics and draw conclusions from the collected data

## References:

- 1) Mangal, S.K. (2002). *Statistics in Psychology and Education*. 2<sup>nd</sup> Edition. New Delhi: Prentice Hall of India Pvt. Limited
- 2) Aaron, A., Aaron, E. N., & Coups, E. J. (2006). *Statistics for Psychology*. (4<sup>th</sup> ed.) Pearson Education, Indian reprint 2007.
- 3) Minium, E. W., King, B. M., & Bear, G. (2004). *Statistical Reasoning in Psychology and Education*. Singapore: John-Wiley & Sons.
- 4) Garrett, H.E & Woodworth, R.S. (1985). *Statistics in Psychology and Education*. Bombay: Mrs. A. F. Shaikh for Vakils, Feffer and Simons Ltd.

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