

**The Kelkar Education Trust's  
V G Vaze College of Arts, Science and Commerce  
(Autonomous)**



**The Kelkar Education Trust's  
V G Vaze College of Arts, Science and Commerce  
(Autonomous)**

Syllabus for FYBA

(July 2023 Onwards)

Program: BA

Semester 1

**Course: Psychology Major/ Minor**

<b>Course Code</b>	<b>Paper Title</b>	<b>Credit</b>
<b>VGUVAMPSY101 (Major) VGUVUANPSY101 (Minor)</b>	<b>Fundamentals of Psychology: Basic Concepts and Processes</b>	<b>04</b>



## 1. Syllabus as per **Choice Based Credit System**

i) Name of the Programme	:	F.Y.B.A. Psychology
ii) Course Code	:	VGUVAMPSY101 (Major) VGVUANPSY101 (Minor)
iii) Course Title	:	<b>Fundamentals of Psychology: Basic Concepts and Processes</b>
iv) Semester wise Course Contents	:	Copy of the syllabus Enclosed
v) References and additional references	:	Enclosed in the Syllabus
vi) Credit structure	:	
No. of Credits per Semester	:	04
vii) No. of lectures per Unit	:	Approximately 12
viii) No. of lectures per week	:	04
ix) No. of Tutorial per week	:	---
		Semester End Exam:60 marks (4 Questions of 15 marks)
		Internal Assessment 40 marks: Class Test: 15 marks
		Project/ Assignment: 15 marks
2 Scheme of Examination	:	Class Participation: 10 marks
3 Special notes, if any	:	No
4 Eligibility, if any	:	As laid down in the College Admission brochure / website



- 5 Fee Structure : As per College Fee Structure specifications
- 6 Special Ordinances / Resolutions, if any : No

Programme: FYBA	Semester: I
Course: <b>Psychology Major/ Minor</b> - Fundamentals of Psychology: Basic Concepts and Processes	<b>Course Code:</b> VGVUAMPSY101 (Major) VGVUANPSY101 (Minor)

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA) 40 marks					End Semester Examination	Total
L	T	P	C	CIA-1	CIA-2	CIA-3	CIA-4	Lab	Written	
4	-	-	4	15	15	10		-	60	100
Max. Time, End Semester Exam (Theory) -2Hrs.										

Prerequisite: Basic Interest in Human Behaviour

### 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.

### Course Content

Unit No.	Content	Lectures
Unit 1.	Psychology as a Science Psychologists at Work	



<p>Introduction to Psychology and Motivation and Emotions</p>	<p>Psychology's Key Issues and Controversies</p> <p><b>Motivation</b>          Defining Motivation          Approaches to Understanding Motivation          Human Needs and Motivation: Eat, Drink and Be Daring</p> <p><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</p>	<p>12</p>
<p>Unit 2.  Sensation and Perception</p>	<p><b>Sensation</b>          Absolute Thresholds          Difference Thresholds          Sensory Adaptation          Vision, Hearing and Other Senses (Taste, Smell and Skin)</p> <p><b>Perception</b>  <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>12</p>
<p>Unit 3.  Memory and Intelligence</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>	<p>12</p>



Unit 4.  Thinking, Problem Solving and Language	<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 Animal Studies in Language</p>	12
	<b>Total No. of Lectures</b>	48

### Beyond the Syllabus

Students' Presentations, Group Discussions, Use of E-learning, Book Reviews and Visits to Institutes/ NGOs working in the field of Psychology

### Semester I: Fundamentals of Psychology: Basic Concepts and Processes (Paper Pattern)

**Duration: 2 hours**

**Marks: 60**

**Q.1 Essay Type (1 out of 2)**

**15 marks**

**Q.2 Essay Type (1 out of 2)**

**15 marks**

**Q.3 Essay Type (1 out of 2)**

**15 Marks**

**Q.4 Short Notes (3 out of 5)**

**15 Marks**



## 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 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.

<b>Textbooks</b>	<ol style="list-style-type: none"><li>1. Feldman, R. S. (2017). Essentials of Understanding Psychology, (12<sup>th</sup> edition). New Delhi: Tata McGraw Hill.</li><li>2. Ciccarelli, S. K., &amp; White, J. N. Adapted by Girishwar Misra (2018). Psychology. 5<sup>th</sup> ed. New Delhi: Pearson Education</li></ol>
<b>Reference Books</b>	<ol style="list-style-type: none"><li>1. Passer, M.W. &amp; Smith, R. E. (2007). Psychology: The Science of Mind and Behaviour. 3<sup>rd</sup> Edition. New Delhi: Tata McGraw Hill Publishing Company Ltd.</li><li>2. Baron, R. A., &amp; Misra, G. (2016). Psychology. (5<sup>th</sup> Edition). India: Pearson India Education Services Pvt Limited</li><li>3. Ciccarelli, S. K. &amp; Meyer, G. E. (2008). Psychology. New Delhi: Dorling Kindersley (India) pvt ltd.</li><li>4. Pinel, J. P. J. (2012). Biopsychology. 6<sup>th</sup> Edition. New Delhi: Dorling Kindersley (India) Pvt Limited.</li><li>5. Rathus, S. A. (2018). Psych: Introductory Psychology. (5<sup>th</sup> Edition). Delhi: Cengage Learning India Pvt Limited.</li><li>6. Myers, D. G. (2013). Psychology. 10<sup>th</sup> edition. Delhi: Macmillan Publishers India Limited</li><li>7. Smith, E. E; Nolen-Hoeksema, S. Fredrickson, B &amp; Loftus, G. R. (2003). Atkinson &amp; Hilgards's Introduction to Psychology. (14<sup>th</sup> Edition) Singapore: Thomson- Wadsworth</li><li>8. Wade, C. &amp; Tavris, C. (2007). Psychology. (8<sup>th</sup> ed.). New Delhi: Dorling Kindersley (India) Pvt Limited.</li></ol>

## 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)



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Syllabus for FYBA

(July 2023 Onwards)

Program: BA

Semester 1

**Course: Vocational Skill Enhancement Course**

<b>Course Code</b>	<b>Paper Title</b>	<b>Credit</b>
VGUVAVSE106	<b>Research Methods in Psychology</b>	<b>04</b>



## 1. Syllabus as per **Choice Based Credit System**

i) Name of the Programme	:	F.Y.B.A. Psychology
ii) Course Code	:	VGUVAVSE106
iii) Course Title	:	Research Methods in Psychology
iv) Semester wise Course Contents	:	Copy of the syllabus Enclosed
v) References and additional references	:	Enclosed in the Syllabus
vi) Credit structure	:	
No. of Credits per Semester	:	04
vii) No. of lectures per Unit	:	Approximately 12
viii) No. of lectures per week	:	04
ix) No. of Tutorial per week	:	---
		Semester End Exam:60 marks (4 Questions of 15 marks)
		Internal Assessment 40 marks: Class Test: 15 marks
		Project/ Assignment: 15 marks
2 Scheme of Examination	:	Class Participation: 10 marks
3 Special notes, if any	:	No
4 Eligibility, if any	:	As laid down in the College Admission brochure / website





- 5 Fee Structure : As per College Fee Structure specifications
- 6 Special Ordinances / Resolutions, if any : No

Programme: FYBA	Semester: I
Course: <b>Vocational Skill Enhancement Course - Research Methods in Psychology</b>	Course Code: VGVUAVSE106

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA) 40 marks					End Semester Examination	Total
L	T	P	C	CIA-1	CIA-2	CIA-3	CIA-4	Lab	Written	
4	-	-	4	15	15	10		-	60	100
Max. Time, End Semester Exam (Theory) -2Hrs.										

Prerequisite: Basic Interest in Human Behaviour

### 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 make students aware of critical evaluation and replication of research.

Course Content		
Unit No.	Content	Lectures
	a. Introduction	



<p>Unit 1.</p> <p>Beginning Psychological Research: Search and Ethics</p>	<ol 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> </ol> <p>b. Search for Ideas, Literature Review and Developing the Research Proposal</p> <ol 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> </ol> <p>c. Research Proposal Writing: APA (American Psychological Association) style guidelines.</p> <p>d. Ethical Issues in Conducting of Psychological Research</p>	<p>12</p>
<p>Unit 2.</p> <p>Psychological Research Methods and Tools</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> <li>4. Using the Internet</li> </ol>	<p>12</p>



<p>Unit 3.</p> <p>Sampling and Treatment of Data</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> <li>3. Qualitative Data Analysis</li> </ol>	<p>12</p>
<p>Unit 4.</p> <p>Completing Psychological Research</p>	<ol style="list-style-type: none"> <li>1. Interpreting the Results of Research and Drawing Conclusions</li> <li>2. Writing, Reviewing and Presenting Research Report: Structure and formatting.</li> <li>3. Critical Evaluation of Research: <ul style="list-style-type: none"> <li>○ Assessing the quality and validity of research studies.</li> <li>○ Evaluating research designs, methodology, and statistical analyses.</li> <li>○ Identifying potential biases and limitations.</li> <li>○ Understanding the importance of replication and peer review.</li> </ul> </li> <li>4. After the Report</li> </ol>	<p>12</p>
<b>Total No. of Lectures</b>		<p>48</p>

### Beyond the Syllabus

Students' Presentations, Group Discussions, Use of E-learning, Book Reviews and Visits to Institutes/ NGOs working in the field of Psychology

### Semester I: Research Methods in Psychology (Paper Pattern)

**Duration: 2 hours**

**Marks: 60**

Q.1 Essay Type (1 out of 2)

15 marks

Q.2 Essay Type (1 out of 2)

15 marks

Q.3 Essay Type (1 out of 2)

15 Marks



**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 understanding, carrying out and evaluating research in Psychology.

<b>Textbook</b>	<ol style="list-style-type: none"> <li>1. Coolican, H. (2006) Introduction to Research Methods in Psychology. Great Briton: Hodder Arnold</li> <li>2. Kothari, C. R. (2002) Research Methodology: Methods and Techniques. New Delhi: Wishwa Prakashan</li> </ol>
<b>Reference Books</b>	<ol style="list-style-type: none"> <li>1. Agarwal, Chetan &amp; Sharma, Vijay (2012) Research Methods in Psychology. Delhi: Commonwealth. Publishers Pvt Ltd - 150, AGA/SHA (39781)</li> <li>2. Elmes, David, G.; Kantowitz, Barry H. and Roediger III, Henry L. () Research Methods in Psychology. New York: Brooks/Cole Publishing Company - 150.724, ELM (18797)</li> <li>3. Kerlinger, Fred N. () Foundations of Behavioural Research. New York: Harcourt Brace Jovanovich College Publishers - 150.7943, KER (12635)</li> <li>4. McBurney, Donald H. (2001) Research Methods. USA: Wadsworth-Thomson Learning -150.72 MCB (30878)</li> </ol>

**Syllabus Prepared by:**

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Syllabus for FYBA

(July 2023 Onwards)

Program: BA

Semester II

**Course: Psychology Major/Minor**

<b>Course Code</b>	<b>Paper Title</b>	<b>Credit</b>
<b>VG VUAMPSY201 (Major) VG VUANPSY201 (Minor)</b>	<b>Fundamentals of Psychology: Theories and Perspectives</b>	<b>04</b>



## 1. Syllabus as per **Choice Based Credit System**

i) Name of the Programme	:	F.Y.B.A. Psychology
ii) Course Code	:	VGUVAMPSY201 (Major) VGVUANPSY201 (Minor)
iii) Course Title	:	<b>Fundamentals of Psychology: Theories and Perspectives</b>
iv) Semester wise Course Contents	:	Copy of the syllabus Enclosed
v) References and additional references	:	Enclosed in the Syllabus
vi) Credit structure	:	
No. of Credits per Semester	:	04
vii) No. of lectures per Unit	:	Approximately 12
viii) No. of lectures per week	:	04
ix) No. of Tutorial per week	:	---
		Semester End Exam:60 marks (4 Questions of 15 marks)
		Internal Assessment 40 marks: Class Test: 15 marks
		Project/ Assignment: 15 marks
2 Scheme of Examination	:	Class Participation: 10 marks
3 Special notes, if any	:	No
4 Eligibility, if any	:	As laid down in the College Admission brochure / website



- 5 Fee Structure : As per College Fee Structure specifications
- 6 Special Ordinances / Resolutions, if any : No

Programme: FYBA

Semester: II

Course: **Psychology Major/ Minor - Fundamentals of Psychology: Theories and Perspectives**

**Course Code:**  
 VGVUAMPSY201  
 (Major)  
 VGVUANPSY201  
 (Minor)

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA) 40 marks					End Semester Examination	Total
L	T	P	C	CIA-1	CIA-2	CIA-3	CIA-4	Lab	Written	
4	-	-	4	15	15	10		-	60	100
Max. Time, End Semester Exam (Theory) -2Hrs.										

Prerequisite: Basic Interest in Human Behaviour

### 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 Content

Unit No.	Content	Lectures
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<p>Unit 1.</p> <p>Biological, Evolutionary and Trait Perspective</p>	<p><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</p> <p><b>Evolutionary Perspective</b>  <b>Trait Theories (Feldman)</b>  Gordon Allport  Raymond Cattle  Hans Eysenck  The Big Five Personality Traits</p>	<p>12</p>
<p>Unit 2.</p> <p>Psychodynamic Perspective</p>	<p><b>Psychoanalytic Perspective</b>  Sigmund Freud</p> <p><b>The Neo-Freudians</b>  Object Relations Theory  Carl Jung  Alfred Adler  Erik Erikson  Karen Horne</p>	<p>12</p>
<p>Unit 3.</p> <p>Behavioural and Cognitive Perspective</p>	<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  Aaron Beck Theory</p>	<p>12</p>
<p>Unit 4.</p>	<p><b>Humanistic Perspectives.</b>  Carl Rogers' Self-Theory  Abraham Maslow's self-actualization  Gestalt Viewpoint  Existentialism</p> <p><b>Socio-cultural Perspective</b></p>	<p>12</p>





Humanistic and Socio-cultural Perspective.	Lev Vygotsky's Theory Urie Bronfenbrenner's Ecological Systems Theory	
	<b>Total No. of Lectures</b>	48

### Semester II: Fundamentals of Psychology: Theories and Perspectives (Paper Pattern)

**Duration: 2 hours**

**Marks: 60**

Q.1 Essay Type (1 out of 2)

15 marks

Q.2 Essay Type (1 out of 2)

15 marks

Q.3 Essay Type (1 out of 2)

15 Marks

Q.4 Short Notes (3 out of 5)

15 Marks

### Course Outcomes:

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

1. Understand the foundational and modern theories and perspectives explaining human behaviour
2. Use contrasting lens of various viewpoints and appreciate complexity of human behaviour
3. Critically evaluate each theory and perspective
4. See the relevance and apply the 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

<b>Text Books</b>	<ol style="list-style-type: none"> <li>1. Feist, J. (2008) Theories of Personality (7<sup>TH</sup> Edition). United States of America: McGraw-Hill.</li> <li>2. Ewin B. (2003) An Introduction to theories of Personality (6<sup>th</sup> Edition). New Jersey: Lawrence Erlbaum Associates.</li> </ol>
<b>Reference Books</b>	<ol style="list-style-type: none"> <li>1. Hjelle, L.A. &amp; Ziegler, D. J. (1992) Personality Theories. (3<sup>rd</sup> Edition) Singapore: McGraw-Hill</li> <li>2. Schultz, D.P. Schultz S.E. (2017) Theories of Personality (11<sup>th</sup> Edition). United States of America: Cengage Learning.</li> </ol>



Syllabus Prepared by:

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Syllabus for FYBA

(July 2023 Onwards)

Program: BA

Semester II

**Course: Vocational Skill Enhancement Course**

<b>Course Code</b>	<b>Paper Title</b>	<b>Credit</b>
VGUVAVSE206	<b>Statistics in Psychology</b>	<b>04</b>



## 2. Syllabus as per **Choice Based Credit System**

i) Name of the Programme	:	F.Y.B.A. Psychology
ii) Course Code	:	VGUVAVSE206
iii) Course Title	:	Statistics in Psychology
iv) Semester wise Course Contents	:	Copy of the syllabus Enclosed
v) References and additional references	:	Enclosed in the Syllabus
vi) Credit structure	:	
No. of Credits per Semester	:	04
vii) No. of lectures per Unit	:	Approximately 12
viii) No. of lectures per week	:	04
ix) No. of Tutorial per week	:	---
		Semester End Exam:60 marks (4 Questions of 15 marks)
		Internal Assessment 40 marks: Class Test: 15 marks
		Project/ Assignment: 15 marks
2 Scheme of Examination	:	Class Participation: 10 marks
3 Special notes, if any	:	No
4 Eligibility, if any	:	As laid down in the College Admission brochure / website
5 Fee Structure	:	As per College Fee Structure specifications
6 Special Ordinances / Resolutions, if any	:	No



Programme: FYBA

Semester: II

Course: **Vocational Skill Enhancement Course - Statistics in Psychology**

**Course Code:**  
VGVUAVSE206

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA) 40 marks					End Semester Examination	Total
L	T	P	C	CIA-1	CIA-2	CIA-3	CIA-4	Lab	Written	
4	-	-	4	15	15	10		-	60	100
Max. Time, End Semester Exam (Theory) -2Hrs.										

### 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 Content

Unit No.	Content	Lectures
Unit 1.  A) Types of scores, Types of scales, Frequency Distribution, Graphic representations  B) Measures of Central Tendency	<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>	12



	<p>e. <b>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>f. <b>Comparison of measures of central tendency:</b> Merits, limitations, and uses of mean, median and mode</p>	
<p>A) Concept of Probability, Normal Probability Curve, Skewness and Standard Scores</p> <p>B) Measures of Variability</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>	12
<p>Unit 3. Correlation, Scatterplots and Regression</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><b>Simple Regression and Multiple Regression</b></p>	12



Unit 4. Drawing Conclusions through Inferential statistics	<ul 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 <ul style="list-style-type: none"> <li>○ Chi Square</li> </ul> </li> </ul>	12
<b>Total No. of Lectures</b>		48

### Beyond the Syllabus

Students' Presentations, Use of E-learning, Visits to Institutes Developing Psychological Assessments and Small Assignments on Creating Psychological Tests and Assessing their Psychometric Properties.

### Course Outcomes

**After completing this course, students should 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

### Semester II: Statistics in Psychology (Paper Pattern)

**Duration: 2 hours**

**Marks: 60**

Q.1 Long Answer Questions (1 out of 2)	15 marks
Q.2 Long Answer Questions (1 out of 2)	15 marks
Q.3 Long Answer Questions (1 out of 2)	15 Marks
Q.4 Short Notes (3 out of 5)	15 Marks

<b>Textbook:</b>	1. Mangal, S.K. (2002). Statistics in Psychology and Education. 2 <sup>nd</sup> Edition. New Delhi: Prentice Hall of India Pvt Limited
<b>Reference Books:</b>	1. Aaron, A., Aaron, E. N., & Coups, E. J. (2006). Statistics for Psychology. (4th ed.) Pearson Education, Indian reprint 2007



	<ol style="list-style-type: none"><li>2. Minium, E. W., King, B. M., &amp; Bear, G. (2004). Statistical Reasoning in Psychology and Education. Singapore: John-Wiley &amp; Sons.</li><li>3. Garrett, H.E &amp; Woodworth, R. S. (1985). Statistics in Psychology and Education. Bombay: Mrs A. F. Shaikh for Vakils, Feffer and Simons Ltd</li></ol>
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