

**Solapur University, Solapur**

**B.Sc. Part – II**

**Semester Pattern Syllabus**

**(w.e.f. June 2014)**

**Psychology**

<b>Semester III</b>		
<b>Paper No.</b>	<b>Title of Papers</b>	<b>Marks</b>
Paper V	Experimental Psychology	50
Paper VI	Social Psychology	50
<b>Semester IV</b>		
<b>Paper No.</b>	<b>Title of Papers</b>	<b>Marks</b>
Paper VII	Cognitive Psychology	50
Paper VIII	Positive Psychology	50
<b>Practical</b>		
<b>Paper No.</b>	<b>Title of Papers</b>	<b>Marks</b>
Paper II	Experimental Psychology – Practical	50
Paper III	Psychological Assessments – Practical	50

**B.Sc Part II**  
**Semester III**  
**Paper V - Experimental Psychology**

**Objectives :** To students able to understand experimental psychology, psychophysical methods and perceptual process.

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**Unit 1. Understanding Experimental Psychology**

- 1.1 Nature of Experimental Psychology
- 1.2 Goals of Experimental Psychology
- 1.3 History of Experimental Psychology
- 1.4 Scope and application of Experimental Psychology
- 1.5 The Experimental Method

**Unit 2. Psychophysical Methods**

- 2.1 What is Psychophysics?
- 2.2 Basic Psychological Methods – Method of limit, Method of average error. Method of constant stimuli;
- 2.3 Weber's law
- 2.4 Fechner's law

**Unit 3. Sensation and Perception**

- 3.1 Meaning and Nature of sensation
- 3.2 Meaning and Nature of perception
- 3.3 Perception of depth
- 3.4 Visual illusions
- 3.5 Factors affecting perception

**Unit 4. Attention**

- 4.1 Meaning and Nature of Attention
- 4.2 Span of Attention
- 4.3 Shifts and Fluctuations
- 4.4 Determinants of Attention
- 4.5 Distraction of Attention

**Reading Book :**

- 1) Samina Bano - *Experimental Psychology*

**References :**

- 1) Sondgrass - *Experimental Psychology*
- 2) Postman and Egan - *Experimental Psychology*

**B.Sc Part II**  
**Semester III**  
**Paper VI - Social Psychology**

**Objectives** : To help students to understand social attitudes, prejudice, discrimination, pro-social behavior areas of social psychology.

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**Unit 1. Introduction to Social Psychology**

- 1.1 Nature and scope of social psychology
- 1.2 Modern social psychology
- 1.3 Importance of social psychology in modern India.
- 1.4 Social psychology and other sciences
- 1.5 Application of social psychology
- 1.6 Present trends in social psychology

**Unit 2. Social Attitude**

- 2.1 Nature of Attitude
- 2.2 Functions of Attitude
- 2.3 Attitude formation
- 2.4 Measurement of Attitude
- 2.5 Attitude and Behavior
- 2.6 Attitude Change

**Unit 3. Prejudice and Discrimination.**

- 3.1 Nature of prejudice .
- 3.2 Components of Prejudice.
- 3.3 Forms of Prejudice.
- 3.4 Acquisition of Prejudice.
- 3.5 Reduction of prejudice.

**Unit -4 Pro-social behavior and social influence**

- 4.1 Personal determinants of pro-social behavior
- 4.2 Situational determinants of pro-social behavior
- 4.3 By stander interventions
- 4.4 Encouraging Pro-social behavior
- 4.5 Conformity - Factors influencing conformity, Innovation.
- 4.6 Compliance - Techniques
- 4.7 Obedience - Contribution of Milgram. Destructive obedience

**Reading Book :**

1). Akbar Husain (2012) *Social Psychology* Person Education South Asia.

**Reference Books :**

1). Baron and Baran (2006) *Social Psychology - understanding human interaction* – prentice all India.

**B.Sc Part II**  
**Semester IV**  
**Paper VII - Cognitive Psychology**

**Objective :** To acquaint the students with cognition types, models of memory and process of problem solving.

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**Unit 1. Cognition**

- 1.1 Definition of cognition
- 1.2 A brief history
- 1.3 The form of theories of cognition.
- 1.4 Studying Cognition - Behavioural Methods, Correlational Neural Methods, Causal neural methods, Modeling Neural network model.

**Unit 2. Working Memory**

- 2.1 Implication and Nature of working memory
- 2.2 Primary memory to working memory (History)
- 2.3 Working memory models
- 2.4 Works of working memory
- 2.5 Monitoring working memory

**Unit -3. Long term memory**

- 3.1 Nature of long term memory
- 3.2 Encoding-Episodic memory, Enhancers of coding – Generation and spacing effect.
- 3.3 Retrieval- episodic memory-Pattern completion and Recapitulation, cues of Retrieval, Recognition by Recollection and familiarity Misremembering, Bias, Misattribution.
- 3.4 Forgetting- Ebbinghaus forgetting functions, Forgetting and competition.

- 3.5 Non-declarative memory- Priming. Other forms of non-declarative memory.

#### **Unit – 4. Problem Solving**

- 4.1 Nature of Problem solving
- 4.2 Structure of Problem, Problem space theory, strategies and Heuristic.
- 4.3 Analogical Reasoning-Using analogies, Theories of analogical Reasoning.
- 4.4 Inductive Reasoning – General induction, specific induction
- 4.5 Deductive Reasoning-Categorical Syllogisms, Conditional Syllogisms, Theories of deductive reasoning.

#### **Reading Books –**

1. Edward E. Smith and Stephen M. Kosslyn – *Cognitive Psychology mind and brain* – PHI learning private limited New Delhi – 2009

#### **Reference Books**

1. Sternberge R. J. - *Applied cognitive Psychology* – Thomson Wordsworth
2. Galloti K.M. (2004) – *Cognitive Psychology in and out of laboratory USA* - Thomson, Wardsworth.

### **B.Sc Part II**

#### **Semester IV**

#### **Paper VIII - Positive Psychology**

**Objectives :** To introduce students growing fields of positive Psychology and its areas like positive emotions, resilience, personal goals, self-esteem self-regulation and self-control.

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#### **Unit - 1. Positive Psychology and Well being**

- 1.1 Positive psychology – Goals & Definitions
- 1.2 Areas of positive psychology- Health, Clinical, Developmental, social, personality, Psychology of religion.
- 1.3 Psychology of well being.
- 1.4 Two tradition of Happiness – Hedonic, Eudaimonic
- 1.5 Subjective well being – measures, life satisfaction, positive, \ negative affects.

- 1.6 Self-Realization – Psychological well being and positive Functioning, Need fulfillment and self-determination theory.

### **Unit - 2. Positive Emotions, and Resilience.**

- 2.1 What are positive emotions?
- 2.2 Theories of positive emotions
- 2.3 Positive emotions and Health Resources – Physical, Psychological, Social
- 2.4 Definition of Resilience-Sources of Resilience. In children, In adulthood and later life.

### **Unit-3. Personal goals and self-esteem**

- 3.1 Defining personal goals
- 3.2 Measuring personal goals
- 3.3 Personal goals across the culture
- 3.4 Happiness and success in college
- 3.5 Self-esteem

### **Unit – 4. Self-regulation and self-control**

- 4.1 Definition of self-regulation and self-control
- 4.2 Theories of self-regulation-control theory, self-Discrepancy theory
- 4.3 Planning for self-regulation success-why planning health, commitment and confidence.
- 4.4 Self-regulation problems – Approach v/s avoidance goals, Goal conflicts & Goal difficulty.
- 4.5 Explanation for self-control failure- Excuses, Irresistible impulse

### **Reading book :**

1. Baumgarner S. R. and Crothers M. K. – *Positive Psychology* person Education first impression 2009.

### **Reference Book**

1. Snyder C R and Lopez S. J. *Positive Psychology* New Delhi, Sage Publication India Pvt. Limited.

**B.Sc Part II**  
**Practical**  
**Paper II - Experimental Psychology Practical**

**Objective :** To acquaint the students with various skills of conducting and report writing style in experimental Psychology.

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**Group (A) Psychophysics (Any Two)**

- 1) Method of limit.
- 2) Method of constant stimuli
- 3) Method of average error
- 4) Coetaneous sensations

**Group (B) Sensation and perception (Any Two)**

- 1) Localization of sound (Auditory Localization)
- 2) Rental colour zone
- 3) Perceptual Organization
- 4) Reaction Time
- 5) Depth perception
- 6) Figure and ground

**Group (C) Attention and problem solving, Emotion (Any Three)**

- 1) Division of Attention
- 2) Distraction of Attention
- 3) Fluctuation of Attention
- 4) Habit interference
- 5) Multiple Choice.
- 6) Problem solving (Tweezers or Finger)
- 7) Judging emotions from facial expression.

**Group (D) Learning and Memory (Any Three)**

- 1) Human Maze learning
- 2) Mirror Drawing
- 3) Conditioning
- 4) Recall and Recognition
- 5) Massed v/s Distributed learning
- 6) Retroactive Inhibition
- 7) Remote Association

**Statistics –**

- 1) Average Deviation 2) Standard Deviation

**B.Sc Part II**  
**Practical**  
**Paper III - Psychological assessment - Practical**

**Objective :** To acquaint the students with Psychological test, interpretation of score and report writing.

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**Group (A) Attitude and Prejudice, self concept (Any two)**

- 1) Sodhis Attitude Sale
- 2) Marriage Attitude Scale
- 3) Prejudice Scale
- 4) Self Concept

**Group (B) Social, Adjustment, Stress (Any two)**

- 1) Social Maturity
- 2) Social Intelligence
- 3) Adjustment inventory
- 4) Tension Scale
- 5) Vocational interest
- 6) Career preference

**Group (C) Memory, Cognition / Intelligence (Any Three)**

- 1) Performance Intelligence Scale
- 2) Free Association Test
- 3) Cognitive Style
- 4) Malin's performance intelligence
- 5) Short term Memory
- 6) Long term Memory
- 7) Ravain's progressive Matrix

**Group (D) Personality, Motivation and Emotions (Any Three)**

- 1) Eysenk Personality Test
- 2) Emotional intelligence Test
- 3) Maudsly's Personality inventory.
- 4) 16 P.F. - Personality factor
- 5) Anxiety Scale
- 6) Level Aspiration\
- 7) Work Motivation
- 8) Locus of control

**Statistics** – 1) Rank difference correlation 2) Pearson Product Movement correlation.

### **Books for Reading -**

- 1) Mann – *Experimental Psychology*
- 2) Postman and Egan – *Experimental Psychology*
- 3) Samina Bano – *Experimental Psychology*
- 4) Frank and Feeman – *Psychological Testing*
- 5) Anne Anastasi – *Psychological Testing*
- 6) Mangal – *Statistics in Psychology and Education.*
- 7) Garrett – *Statistics in Psychology and Education*

### **Reference Books -**

- 1) Woodworth and Scholsherge – *Experimental Psychology*
- 2) D. Amato – *Experimental Psychology*
- 3) Jalota – *Experimental Psychology Journal*
- 4) Cronbach – *Psychological Testing and assessment*
- 5) Fargusan – *Statistics in Psychology*
- 6) Snodgras – *Experimental Psychology*

### **Practical Examination**

#### **Notes –**

- 1) Any ten practical should be performed from each groups (A,B,C,D,) for each paper II and Paper III. Total 20 Practicals should be performed and write its report duly signed by incharge teacher and head of the department.
- 2) Annual practical examination will be conducted at end of academic year.
- 3) The Chairman of Board appointed one internal and one external examiner for practical examiner.
- 4) There shall be consists any one experiment from paper II and any one tests from paper III for annual practical problems for each practical paper for annual practical examination.
- 5) The students will be assigned one statistical problems for each practical paper for annual practical examination.
- 6) Each practical paper will be of 50 marks and 3 hours duration.
- 7) The distributions of marks of Practical Paper II and Paper III examinations will be as follows.

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1) Journal –	10 marks
2) Statistical Problem –	10 marks
3) Conduct and Instructions –	10 marks
4) Report Writing -	15 marks
5) Oral or Viva vice –	5 marks
<b>Total -</b>	<b>50 marks</b>