



NAAC Accredited-2015  
'B' Grade (CGPA 2.62)

# **Solapur University, Solapur**

**B.Sc Part – II**

**Psychology (Sem III & IV)**

**Faculty of Science**

**Choice Based Credit System (CBCS)**

**(w.e.f. From June, 2017-18)**

		Sem – III (Theory)								
Course	Paper	Title of the Paper	Hrs/Week			Marks	UA	CA	Credit	Lect. Hrs
Elective	v.	Experimental Psychology	L 3	T -	P -	100	70	30	3	45
	vi.	Social Psychology	3	-	-	100	70	30	3	45
Sem – IV (Theory)										
	vii.	Cognitive Psychology	3	-	-	100	70	30	3	45
	viii.	Positive Psychology	3	-	-	100	70	30	3	45
		Practical								
	Paper II	Experimental Psychology	--	--	4	100	70	30	4	120
	Paper III	Psychological Assessments			4	100	70	30	4	120

### **1) Title of the course :**

B.Sc. – II - Psychology - Choice Based Credit System (CBCS) 2017 – 18

### **2) Preamble :**

This course provides a broad overview of psychology in Experimental , Social, Cognitive & Positive Psychology. It covers major theoretical perspectives & concepts including, Psychophysical methods, & Perceptual Process, Social Attitudes, Prejudice & Pro-Social behavior of individuals & Cognitive processes such as cognition, memory, problem solving & resolving. It also introduce new areas of Positive Psychology & Well-being.

### **3) Objectives of the course :**

1. To students able to understand experimental psychology, psychophysical methods and perceptual process.
2. To help students to understand social attitudes, prejudice, discrimination, pro-social behavior areas of social psychology.
3. To acquaint the students with cognition types, models of memory and process of problem solving.
4. To introduce students growing fields of positive Psychology and its areas like positive emotions, resilience, personal goals, self-esteem self-regulation and self-control.
5. To acquaint the students with various skills of conducting and report writing style in experimental Psychology.
6. To acquaint the students with Psychological test, interpretation of score and report writing.

### **4) Advantages :**

1. Students can apply the Positive Psychology principles in their real life situations.
2. This course helps students in understanding of Human social lives & cognitive processes.

3. Students find out what is mentally correct & what is positive in their lives.
4. Students recognize & shape their well-being in future course of actions.
5. Cognitive process, Positive attitude, Social influence & pro Social behavior helps students to adjust their lives in Globalization.
6. This syllabus provides Theoretical applied knowledge of Psychological Testing & Experimentation.

**5) Eligibility of Course :**

Passed B.Sc I year of Science from recognized university with science subject included Psychology as optional.

**6) Durations :**

The duration for the programme is one year with two semester pattern. (III<sup>rd</sup> & IV<sup>th</sup>)

**7) Medium of Instructions –**

English

**8) Structure of Course :**

1. B.Sc. II comprises of total two semesters. For semester Iii two theory papers (Paper – v and vi) having weightage 100 marks each out 200 Totalmarks consist 140 marks For University Assessment & 60 Marks for College Internal Assessment. semester Iv having two theory papers (Paper vii and Viii) having weightage of 100 marks each out of 200 Total marks consist 140 marks For University Assessment & 60 Marks for College Internal Assessment. Nature of theory question paper prescribed as per by science faculty

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

**Credit: 3.0**

**Lect./Hrs: 45**

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**Unit 1. Understanding Experimental Psychology      Lect. Hrs 11**

- 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      Lect. Hrs 11**

- 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      Lect. Hrs 12**

- 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      Lect. Hrs 11**

- 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**

**Credit : 3.0**

**Lect./Hrs : 45**

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**Unit 1. Introduction to Social Psychology**

**Lect. Hrs 11**

- 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**

**Lect. Hrs 11**

- 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.**

**Lect. Hrs 11**

- 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**

**Lect. Hrs 12**

- 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**

**Credit : 3.0**

**Lect./Hrs : 45**

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**Unit 1. Cognition**

**Lect. Hrs 11**

- 1.1 Definition of Cognition,
- 1.2 Fields of Cognition. (Mental Activity)
- 1.3 A brief history- The beginning, Psychology in the world, behaviorism, Cognitive Revolution.
- 1.4 Methods Studying Cognition - Behavioural Methods, Correlation Neural-Imagining Methods- EEG & ERP, MEG, PET MRI, fMRI, DOT, Modeling, Neural Network Modeling.

**Unit 2. Working Memory**

**Lect. Hrs 11**

- 2.1 Implication and Nature of Working Memory
- 2.2 Brief History- William James, Early Studies, Baddeley – Hitch Model
- 2.3 Understanding the Working Memory Models- Phonological Loop, Visuospatial Scratchpad, Central Executive.
- 2.4 Monitoring Working Memory.

**Unit -3. Long Term Memory**

**Lect. Hrs 12**

- 3.1 Nature of Long Term Memory- The Forms of LTM
- 3.2 Encoding Episodic Memory: Attention- Level of Processing & Elaborative Encoding.
- 3.3 Retrieval of Episodic Memory: cues of Retrieval, Recognition by Recollection and familiarity, Misremembering, Misattribution.
- 3.4 Forgetting- Definition, Ebbinghaus forgetting function, Forgetting and Interference- Retroactive & Proactive Interference.
- 3.5 Non-Declarative Memory (Implicit Memory) –Definition, Forms of Non Declarative Memory- Skill Memory Habit Memory & Conditional Memory

**Unit – 4. Problem Solving & Reasoning**

**Lect. Hrs 11**

- 4.1 Definition of Problem solving & Reasoning.
- 4.2 Nature of Problem Solving, Structure of Problem, Problem Space Theory.
- 4.3 Inductive Reasoning – General Induction, Specific Induction
- 4.4 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**

**Credit : 3.0**

**Lect./Hrs: 45**

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**Unit - 1. Positive Psychology and Well being** **Lect. Hrs 12**

- 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.** **Lect. Hrs 11**

- 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** **Lect. Hrs 11**

- 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** **Lect. Hrs 11**

- 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**

**Credit: 4.0**

**Lect.Hrs: 120**

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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**

**Credit: 4.0**

**Lect.Hrs: 120**

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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 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 100 marks & Total 200 Marks, out of 200 Marks, 60 Marks for Internal Assessment & 140 Marks for University Assessment.
- 7) Each practical paper will be of 3 hours duration.
- 8) The distributions of Internal & University assessment marks of Practical Paper II and Paper III will be as follows.

**Practical Paper II & III**  
**IA- 60 Marks**  
**UA – 140 Marks**

**Paper II - Experimental Psychology**

**Internal Assessment: 30 Marks**

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- 1) Home Assignment : 15 marks.
- 2) Test : 15 marks.

**University Assessment : 70 Marks**

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- 1) Journal – 20 marks
- 2) Statistical Problem – 10 marks
- 3) Conduct and Instructions – 15 marks
- 4) Report Writing - 15 marks
- 5) Oral or Viva vice – 10 marks

**Paper III - Psychological Assessment**

**Internal Assessment : 30 Marks**

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- 1) Home Assignment : 15 marks.
- 2) Test : 15 marks.

**University Assessment: 70 Marks**

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- 1) Journal – 20 marks
- 2) Statistical Problem – 10 marks
- 3) Conduct and Instructions – 15 marks
- 4) Report Writing - 15 marks
- 5) Oral or Viva vice – 10 marks