

UNIVERSITY OF PUNE
SYLLABUS FOR F. Y. B. Sc.
PAPER- I: GENERAL PSYCHOLOGY
(To be implemented from 2013-2014)

OBJECTIVES:-

1. To acquaint the students the solid conceptual foundation of the basic principles of psychology.
2. To familiarize the students with the historical trends in psychology, major concepts, theoretical perspectives and empirical findings.
3. To impart an overview of the applications of psychology.

TERM- I

TOPIC -1 – PSYCHOLOGY: SCIENCE AND PERSPECTIVES (Total Periods = 11)

- 1.1- Definition, nature and goals of psychology as a science.
- 1.2- History and perspectives – Structuralism, Functionalism, Gestalt, Psychoanalysis, Behaviorism, Humanistic, Cognitive, Bio-psycho-socio-cultural.
- 1.3- Fields – Developmental, Social, Clinical and Counseling, Educational, Industrial, Health, Criminal and Forensic, Sports and Women psychology.
- 1.4- Methods – Introspection, Observation, Experimental, Survey and Case study.

TOPIC -2 – BIOLOGICAL BASES OF HUMAN BEHAVIOUR (Total Periods = 11)

- 2.1- Neuron – Structure and function.
- 2.2- Neurotransmitters: Serotonin, Dopamine, GABA.
- 2.3- Nervous system- Central Nervous System (CNS- Brain, Spinal Cord), Peripheral Nervous System (Autonomous Nervous System (ANS), Somatic Nervous System(SNS))
- 2.4- Glandular System: Pituitary, Thyroid, Parathyroid, Adrenal, Gonads.

TOPIC -3 – SENSATION, ATTENTION AND PERCEPTION (Total Periods = 10)

- 3.1- Sensation – Definition, nature and process
- 3.2- Attention – Definition, types, determinants, phenomena - Division of attention, Span of attention.
- 3.3- Perception – Definition, Gestalt principles and perceptual constancies.
- 3.4 - Perceptual illusions.

TOPIC – 4- MOTIVATION (Total Periods = 10)

- 4.1- Definition and characteristics – Motivational cycle.
- 4.2- Types – Biological, Social, Psychological.
- 4.3- Theories – Arousal, Drive Reduction, Incentive, Humanistic (Maslow).
- 4.4- Frustration – Sources of frustration, types of conflicts.

TERM- II

TOPIC – 5- EMOTION (Total Periods = 11)

- 5.1- Definition, nature and importance of emotion.
- 5.2- Basic emotions: Joy, Excitement, Tenderness, Sadness, Anger, Fear and Love.
- 5.3- Theories of emotion: James-Lange, Canon Bard, Schachter, Singer and Lazarus.
- 5.4- EQ – Definition, nature, measurement and importance of EQ

TOPIC -6- LEARNING AND MEMORY (Total Periods = 11)

- 6.1- Learning: Definition, nature and types.
- 6.2- Conditioning – Classical and operant conditioning and their practical applications.
- 6.3- Trial and error – Thorndike’s experiment and laws, Insight learning- Kohler.
- 6.4- Memory: Definition, types - Forgetting and causes of forgetting.

TOPIC -7- PERSONALITY (Total Periods = 10)

- 7.1- Nature, definition and misconceptions.
- 7.2- Freud’s psychoanalytical theory of personality.
- 7.3- Trait approaches to personality: Allport’s approach, Eysenck’s PEN model, Cattell’s 16PF, McCrae and Costa’s Big-five model.
- 7.4- Assessment techniques – Behavioural, projective and self report inventories:
 - i) MMPI ii) CPI iii) Neo-PI.

TOPIC -8 – INTELLIGENCE AND THINKING (Total Periods = 10)

- 8.1- Intelligence: Definition and basic concepts in measurement (CA, MA, IQ and DQ).
- 8.2- Intelligence Measurement: Stanford Binet, Wechsler Intelligence Scale for Children (WISC) and Wechsler Adult Intelligence Scale (WAIS).
- 8.3- Individual Differences: Mentally Challenged and Gifted People, types and causes.
- 8.4- Thinking – Definition and types: Logical, problem solving and decision making, Creative thinking.

BOOKS FOR READING:

- Baron, R. A. (2001). Psychology. New Delhi: Pearson Education Pvt. Ltd.
- Ciccarelli, Sandra, White N. (2011). Psychology: An Exploration (2nd edition), Pearson Publications.
- Ciccarelli, S and Meyer, G. E. (2011). Psychology, Pearson Publications, New Delhi.
- Coon, D. & Mitterer, J. O. (2007). Introduction to psychology: Gateways to mind and behavior. Singapore: Thomson Wadsworth.
- Feldman, Robert (2009). Understanding Psychology, 9th edition, Tata McGraw Hill.
- Lahey, B. B. (2003). Psychology: An introduction. New Delhi: Tata McGraw-Hill.
- Morgan, C. T., King, R. A., Weisz, J. R. and Schopler, J. (1986). Introduction to psychology. McGraw-Hill Book Co.
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- Passer, M. W. & Smith, R. E. (2007). Psychology: The science of mind and behaviour. New Delhi: Tata McGraw-Hill.
- Smith, D. B. (1998). Psychology: Science and understanding. Boston: McGraw-Hill.
- Smith, E. E., Hocksema, S. N., Fredrickson, B. and Loftus, G. R. (2003). Atkinson and Hilgard's Introduction to Psychology. Singapore: Thompson Wadsworth.
- Zimbardo, P. G. and Weber, A. L. (1997). Psychology. N.Y.: Pearson.

UNIVERSITY OF PUNE
SYLLABUS FOR F. Y. B. Sc
PAPER- II: EXPERIMENTAL PSYCHOLOGY
(To be implemented from 2013-2014)

OBJECTIVES:

1. To acquaint the students the basic concepts of Experimental Psychology.
2. To help the students to understand the different methods of psychophysics, learning, reaction time.
3. To make the students familiar with psychological tests, intelligence, aptitude and personality.

TERM-I

TOPIC- 1: UNDERSTANDING EXPERIMENTAL PSYCHOLOGY. (Total periods = 11).

- 1.1 - The nature and scope of experimental psychology.
- 1.2 - Goals of experimental psychology.
- 1.3 - History of experimental psychology.
- 1.4 - Application experimental psychology.

TOPIC-2: THE EXPERIMENTAL METHOD. (Total periods = 11).

- 2.1 - Concept of variables and types of variables.
- 2.2 - Importance of problem in experimentation.
- 2.3 -Experiments and experimental controls.
- 2.4 -Evaluation of experimental methods.

TOPIC-3: PSYCHOPHYSICAL METHODS. (Total periods = 10).

- 3.1- Basic concepts of psychophysics.
- 3.2 -Basic problems in psychophysics.
- 3.3 -Methods of psychophysics.
- 3.4 –Weber’s and Fechner’s law.

TOPIC-4: THINKING AND PROBLEM SOLVING. (Total periods = 10).

- 4.1- What is thinking?
- 4.2 -Mental image and concept formation.
- 4.3- Language: Areas related with language.
- 4.4 - Problem solving: Approaches and types.

TERM-II

TOPIC-5: LEARNING. (Total periods = 11).

- 5.1 -What is learning? Types of learning.
- 5.2 -Classical and operant conditioning.
- 5.3 -Observational learning.
- 5.4 -Factors influencing learning.

TOPIC-6: REACTION TIME. (Total periods = 11).

- 6.1- What is reaction time? Importance of reaction time.
- 6.2 -Types of reaction time.
- 6.3 -Determinants of reaction time.
- 6.4 -Measurement and applications of reaction time.

TOPIC-7: PSYCHOLOGICAL TESTING. (Total periods = 10).

- 7.1 -What is Psychological test? Characteristics of psychological test.
- 7.2 -Classification of psychological tests.
- 7.3 -Applications of psychological tests.
- 7.4- Social and ethical implications of psychological tests.

TOPIC-8: MEASUREMENT OF INTELLIGENCE, APTITUDE AND PERSONALITY. (Total periods = 10).

- 8.1 Nature of intelligence and intelligence tests: Stanford-Binet Scale, WAIS, SPM.
- 8.2 Nature of aptitude and aptitude tests: DAT, GATB.
- 8.3 Nature of personality and personality Tests: 16 PF, TAT, SCT.
- 8.4 Nature of interest and interest inventories: Palsane's Interest Inventory, Strong-Campbell Interest Inventory.

BOOKS FOR READING:

- Anastasi, A. and Urbina, S. (2005). Psychological Testing (7th edn). Upper Saddle River, NJ: Prentice -Hall, New Delhi.
- Bano, Samina.(Consultant Editor) (2012).Experimental Psychology.(1st edn).Dorling Kidersley , (India) Pvt. Ltd.
- Dandekar, W. N. and Rajguru .(2001). An Introduction to Psychological Testing and Statistics. Seth PublicationsPvt. Ltd. .
- Dandekar, W. N.(1994). Fundamentals of Experimental Psychology. Anmol Prakashan, Pune.
- Husain, Akbar. (Consultant Editor)(2012) .Psychological Testing. (1st edn). Dorling Kidersley,

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D Amato .(2004). Experimental Psychology:Methodology, Psychophysics and Learning

Kapalan, R. M.and Saccuzzo, D.P.(2007). Psychological Testing: Principles,Applications and Issues. Australia:Thomson, Wadsworth.

Rajamanicam, M. (2005). Experimental Psychology: with Advanced Experiments. Vol 1 & 2. Concept Publishing Company, New Delhi.

Myers, A. and Hansen. (2002).Experimental Psychology. Wadsworth.

Postman, L. and Eagan, J. P.(1949). Experimental Psychology- An Introduction. Kalyani Publication.

Sharma ,Ramnath and Sharma. (2000). Experimental Psychology.Atlantic Publication.

Snodgrass, J.G.,Levy-Berger, Hyden. (1985). Human Experimental Psychology.Oxford University Press, New York.

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SYLLABUS FOR F. Y. B. Sc
PAPER- III: EXPERIMENTAL PSYCHOLOGY: PRACTICAL
(To be implemented from 2013-2014)

OBJECTIVES:

1. To acquaint the students the basic concepts of Experiments and Tests in Psychology.
2. To acquaint the students how to conduct the experiments and administer the tests and to understand its practical applications.
3. To introduce the students about basic knowledge of elementary statistics.

(A)-LIST OF EXPERIMENTS: (Any Six Experiments).

1. Method of Limit.
2. Method of Constant Stimuli.
3. Method of Average Error.
4. Measurement of Illusion.
5. Measurement of Reaction Time (RT).
6. Maze Learning.
7. Concept.
8. Recall and Recognition.
9. Problem Solving.
10. Manual Dexterity or Finger Dexterity.
11. Short Term Memory (STM).
12. Knowledge of Result (KOR).

(B)-LIST OF PSYCHOLOGICAL TESTS: (Any Six Tests).

1. Standard Progressive Matrices (SPM).
2. Stanford-Binet Scale.
3. Wechsler Adult Intelligence Scale.
4. General Mental Ability Test (GMAT).
5. M. N. Palsane's Interest Inventory.
6. Strong-Campbell Interest Inventory.
7. Sixteen Personality Factor (16PF).
8. Thematic Apperception Test (TAT).
9. Sentence Completion Test (SCT).
10. Differential Aptitude Test (DAT).
11. Adjustment Inventory.
12. Value Test.

(C)-STATISTICS:

First Term: Measurement of central tendency – Mean, Median, Mode.

Second Term: Standard Deviation, Rank Order Correlation Coefficient.

NOTE:

1. Practical Examination will be conducted by respective colleges at the end of the academic year.
2. Distribution of marks – 80 marks are assigned to practical at annual and 20 marks for internal examination which consists 10 marks for Journal & 10 marks for Oral).
3. Based on syllabus simple statistical problems are to be set for annual practical examination .

BOOKS FOR READING:

- Anastasi, A. and Urbina, S.(2005).Psychological Testing. (7th Edn), Prentice -Hall, New Delhi. .
- Bano, Samina (Consultant Editor) (2012).Experimental Psychology.(1St edn),Dorling Kidersley, India) Pvt. Ltd.
- Chaube, S. P.(1985). Some Psychological Experiments.L.N.A.Education Publication, Agra.
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- D'Amato.(2004).Experimental Psychology:Methodology, Psychophysics and Learning.
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- Garret, H.E.(1985) Statistics In Psychology & Education.
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- Jalota. (1985) .Experiments In Psychology.
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- Myers, A. and Hansen.(2002).Experimental Psychology, Wadsworth.
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