

**Anekant Education Society's
Tuljaram Chaturchand College of Arts, Science and
Commerce, Baramati
Autonomous**

Department of Psychology

Syllabus of MA-I Psychology

To be implemented on Academic Year 2022-23

Preamble

Master's Degree in psychology has been of great demand in the recent years. The need for psychological assistance and guidance has been recognized by all the sections of the society and there is a need of professionals in the field. Application of psychological principles to solve human problems has acquired new dimension with the changing nature of the challenges that the world faces today. Keeping this in mind the present curricula has been framed to provide theoretical as well as practical training in a wide range of specializations that would help the post graduate to be eligible to be employed in the various fields. The course has been redesigned with emphasis not only on the syllabi but also on co-curricular activities such as book reviews/seminars/ presentations/assignments that would be out of the syllabi and constitute a part of the internal assessment. This course provides broad training to the student toward marketing psychology knowledge and become professional psychologist or trainer. It would facilitate acquiring specialized knowledge, inculcating relevant attitude, values and a sense of empowerment. It recognizes multiplicity in ways and means of knowledge-creation and applications. The course will enable the learners to assume the role of the psychologists for the better development of individuals and society with a positive attitude.

Semester	Paper Code	Title of Paper	No. of Credits
I	PAPS111	Cognitive Psychology	4
	PAPS112	Psychometrics	4
	PAPS113	Statistical Methods	4
	PAPS114	Psychology Practical: Tests	4

MA-I Syllabus
Academic Year 2022-23
Semester-I

PAPS111 COGNITIVE PSYCHOLOGY

A) Objective and Outcome of the Course

1. To acquaints the students with the processes of sensation and Perception.
2. To develop insights into one's own and others behavior and mental processes.
3. To enrich students understanding of major concepts, theoretical perspectives and empirical findings of cognitive Psychology.
4. To make the student understand the process of reasoning and decision making

B) Learning Outcomes

1. Advanced theoretical, empirical and applied knowledge of basic mental processes from cognitive perspective.
2. Knowledge of quantitative research methods used in cognitive psychology.
3. Developing positive attitude about day-to-day problems and its solutions.

UNIT-I INTRODUCTION TO COGNITIVE PSYCHOLOGY (10)

- 1.1 Nature, Definition and Domains of Cognitive Psychology
- 1.2 History and methods of Cognitive Psychology
- 1.3 Theories of Cognitive Development: Piaget, Vygotsky
- 1.4 Theories of Cognitive Processes
- 1.5 Application: Recent Trends in Artificial Intelligence (Merits & Demerits)

UNIT -II SENSATION, ATTENTION, PERCEPTION (10)

- 2.1 Sensation - Introduction to psychophysics: Basic concepts and methods.
- 2.2 Attention: (a) Functions of attention: Divided attention, selective attention (b) Theories of attention process (c) Signal Detection Theory and vigilance.
- 2.3 Pattern recognition: Template matching theory, prototype models and Distinctive-Features models
- 2.4 Perception-approaches: Gestalt, Bottom-Up Top-Down and Computational theories
- 2.5. Application: meta-cognition

UNIT-III LANGUAGE AND RELATED COGNITIVE PHENOMENA (10)

- 3.1 Understanding Languages
- 3.2 Reading: theories of word recognition, reading & Comprehension
- 3.3 Speaking: selecting speech in content, Speech errors, social context of speech
- 3.4 Writing: Comparing speaking & writing
- 3.5 Multilingualism and Neuropsychological basis of Language

UNIT-IV PROBLEM SOLVING, CREATIVITY AND DECISION MAKING (10)

- 4.1 Problem solving: Definition, types, cycle, obstacles and aid
- 4.2 Approaches to problem solving
- 4.3 Meaning, process and theories of Creativity
- 4.4 Decision making and reasoning, Emotion& thinking
- 4.5 Application: How to Enhancing Creativity

Reference Books

1. Matlin, M. (2012). *Cognition. (8th ed)*. John Wiley.
2. Galloti, K. M. (2004). *Cognitive psychology in and out of the laboratory*. USA: Thomson Wadsworth.
3. Sternberg, R.J. (2007). *Cognitive Psychology*. Australia: Thomson Wadsworth.
4. Kellogg, R.T.(2007). *Fundamentals of Cognitive Psychology*. N.D. Sage Publications.
5. Solso, R. L. (2004). *Cognitive Psychology (6th ed)*. Delhi: Pearson Education.
6. Wade, C. and Tavris, C. (2007). *Psychology*. ND: Pearson Education.
7. Gavin, H. (1998). *The essence of cognitive psychology*. London: Prentice-Hall.
8. Corens, S., Ward, L.M., & Enns, J. (1994). *Sensation and perception*. NY: Harcourt Brace & Co.
9. Messer, D. & Miller, S. (1999). *Exploring developmental psychology*. London:Arnold.
10. Flavell, J.H. (1985). *Cognitive development (2nd ed)* NJ: Prentice Hall.
11. Reed, S.K. (1988). *Cognition: Theory and applications (3rd ed)*. California: Brooks/Cole Pub.Co.
12. Best, J. B. (1999). *Cognitive Psychology*. USA: Wadsworth Publishing Co.
13. Reed S. K. (2004). *Cognition: Theory and application (3rd ed)*. California: Brooks/Cole Pub. Company
14. Desai, B. and Abhyankar, S. C. (2007). *Prayogik Manasashastra ani Sanshodhan Paddhati*. Pune: Narendra Prakashan.
15. Borude, R.R. (2005). *Bodhanik manasashastra*. Chhaya Prakashan.
16. Groome, D., Eysenck, M.W., Baker, K., et al., (2016). *An introduction to applied Cognitive Psychology,(2nd ed.)*. New York: Routledge.

PAPS112-PSYCHOMETRICS

A) Objectives

1. To acquaint them with the characteristics of standardized tests.
2. To developed occupational skills in students related with Psychological test.
3. To enable students to develop skills and competencies in test construction and standardization.
4. To execute and to scientifically report the test.

B) Learning Outcomes

1. Learning theoretical concepts through test.
 2. Acquiring skills executing and reporting the test.
 3. Identify and recognize the characteristics of a good psychological test.
 4. Differentiate between the various psychometric properties of a test.
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UNIT-I NATURE AND SCOPE OF PSYCHOLOGICAL TESTING (10)

- 1.1 Definition, Nature and characteristics of Psychological tests
- 1.2 Classification, Uses and types of Psychological tests
- 1.3 Item Analysis
- 1.4 General steps in test construction
- 1.5 Ethical issues in Psychological testing

UNIT-II NORMS AND THE MEANING OF TESTS SCORE (10)

- 4.1 Basis statistical concepts in Psychological testing
- 4.2 Definition, Nature of Norms
- 4.3 Steps in Developing Norms
- 4.4 Types of Norms
- 4.5 Administration and Interpretation of Computerized test

UNIT-III RELIABILITY (10)

- 3.1 Definition and meaning of Reliability
- 3.2 The correlation coefficient
- 3.3 Types of Reliability
- 3.4 Reliability of Speed Tests
- 3.5 Factors Influencing Reliability

UNIT-IV VALIDITY (10)

- 4.1 Meaning and Aspects of Validity
- 4.2 Content-description validation procedures
- 4.3 Criterion-prediction procedures
- 4.4 Construct-Identification Procedures
- 4.5 Factors Influencing Validity

References:

1. Anastasi, A. & Urbina, S. (1997). *Psychological testing*. N.D.: Pearson Education.
2. Kaplan, R.M. & Saccuzzo, D.P. (2007). *Psychological Testing: Principles, Applications, and Issues*. Australia: Thomson Wadsworth.
3. Gregory, R.J. (2005). *Psychological testing: History, principles and applications*. New Delhi: Pearson Education.
4. Singh, A.K. (2006). *Tests, Measurements and Research Methods in Behavioral Sciences*. Patna: Bharati Bhavan.
5. Anastasi, A. (1988). *Psychological testing*. NY: Macmillan.
6. Nunnally, J.C. (1981). *Psychometric theory*. NY: Tata McGraw-Hill
7. Freeman, F.S. 3rd ed. (1965). *Psychological testing*. New Delhi: Oxford & IBH Publishing
8. Co. Pvt. Ltd.
9. Cronbach, L. J. 5th ed. (1990). *Essentials of psychological testing*. New York: Harper Collins Publishers:
10. Anastasi A. (1988). *Psychological Testing*. New York: McMillan
11. Chadha, N. K. (1996). *Theory and practice of psychometry*. N. D.: New Age International
12. Miller, L., Lovler, R & McIntire, S. (2013). *Psychological Testing: A Practical Approach*. Sage Publication.
- 13.

PAPS113 STATISTICALMETHODS

A) Learning Objectives:

1. To develop computational skills in students.
2. To prepare students to understand and use software's for different statistical operations.
3. To help learners to understand applications of statistics and learn numerical methods associated with them.
4. To introduce multivariate methods and computer applications to statistics.

B) Learning Outcome:

After completion of this course the students will be able:

1. Understand and apply various statistical methods.
 2. Understand applications of statistics and learn numerical methods associated with them.
 3. Develop an in-depth understanding of multivariate methods and computer applications to statistics.
 4. Understand and apply computerized software's for different statistical operations.
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UNIT- I BASICS STATISTICS AND PROBABILITY [10]

- 1.1 Aims and Applications of Statistics in Social Sciences.
- 1.2 Overview of measures of Central tendency, variability, curves and graphs.
- 1.3 Percentiles, percentile ranks and standard scores.
- 1.4 Probability: Concept, definition, and approaches.
- 1.5 Characteristics and Applications of normal distribution curve.

UNIT-II CORRELATION AND REGRESSION [10]

- 2.1 Meaning and Types of correlation
- 2.2 Pearson's Product-Moment Correlation
- 2.3 Other Types of Correlation (Point Bi-serial Correlation and Phi-coefficient, Bi-serial and Tetra choric correlation, Partial and Multiple Correlations)
- 2.4 Regression and Prediction
- 2.5 Multiple Regressions

UNIT-III INFERENCEAL STATISTICS [10]

- 3.1 Inferences: Standard error of mean and other statistics
- 3.2 Significance of difference for means variances and correlation coefficients.
- 3.3 Assumptions of Analysis of Variance, and One-way ANOVA-Independent, concept of repeated measures
- 3.4 Two-way ANOVA-Independent, concept of repeated measures
- 3.5 Analysis of Covariance: Concept.

UNIT-IV NON- PARAMETRIC STATISTICS AND STATISTICAL SOFTWARES [10]

- 4.1 Difference between Parametric and Non-parametric statistics
- 4.2 Chi Square tests
- 4.3 Non-parametric tests for correlated and uncorrelated data
- 4.4 Statistical software's: An introduction
- 4.5 Applications of Statistical Software's –Analysis and Interpretation of data.

Reference Books

- 1) Minium E.W., King B. M., Bear G. (1995). *Statistical Reasoning in Psychology and Education*
- 2) Guilford J. P. and Fruchter B. (1985). *Fundamental Statistics in Psychology and Education* (6th ed) McGraw - Hill
- 3) Howell D.C. (1997). *Statistical Methods for Psychology* (4th Ed)
- 4) Sarma K.V.S. (2001) *Statistic Made Simple : Do it Yourself on PC*
- 5) Welkowitz, J., Emen, R. B. and Cohen, J. (1982). *Introductory statistics for the behavioural sciences (3rd ed.)*. N.Y.: Academic Press.
- 6) Fergusson, G. A. (1976). *Statistical analysis in psychology and education*. McGraw-Hill.
- 7) Glass, G. V. & Stanley, J. C. (1970). *Statistical methods in education and psychology*. Prentice- Hall.
- 8) Kurtz, A.K. & Mayo, S.T. (1979). *Statistical methods in education and psychology*. Narosa.
- 9) Lomax, R. G. (1998). *Statistical concepts: A second course for education and behavioural sciences*. N.J.: Lawrence Erlbaum Asso. Inc.
- 10) Mangal, S. K. (2006). *Statistics in psychology and education*. N.D.: Prentice-Hall
- 11) Levin, J. & Fox, J. A. (2006). *Elementary statistics in social research*. Delhi: Pearson Education.
- 12) Black, T.R. (1999). *Doing quantitative research in the social sciences: An integrated approach to research design, measurement and statistics*. London: Sage Pub.
- 13) Foster, J.J. (2001). *Data analysis: Using SPSS for windows*. London: Sage Publication.

PAPS114 PSYCHOLOGY PRACTICAL – TESTS

A) Learning Objectives:

1. To acquaint the students with different tests used for psychological assessment
2. The administration of psychological tests, interpretation of scores and report writing.
3. The evaluation procedures and evaluation of psychological tests.
4. To employ procedure of test development.

B) Learning Outcomes:

1. The importance outcome of the course students developed certain skills of psychological Counseling on the basis of psychological test results.
 2. Interpret test score and able to write
 3. Construct new psychological test following test development procedures.
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UNIT-I GENERAL ABILITY TESTS (any two):

1. Intelligence tests: Verbal Test
2. Intelligence tests: Performance Test
3. Creativity
4. Thinking
5. Judgment and Reasoning

UNIT -II SPECIAL ABILITY TESTS (any two):

1. Multiple Aptitude Test (any one)
2. Special Aptitude Test (any one)

UNIT -III PERSONALITY AND TESTS (any three):

1. Self-report inventory
2. Projective test: Verbal
3. Projective test: Pictorial
4. Interest inventory
5. Adjustment inventory
6. Attitude / Values

UNIT-IV CLINICAL AND OTHER TESTS (any three):

1. Stress / Frustration
2. Environmental Assessment
3. Development Assessment
4. Achievement Test
5. Cognitive Style
6. Self Concept
7. Neuropsychological Assessment
8. Social Skill / Behavioural Skill

Important notes:

A. General Instructions:

1. Each batch of practical will consist of maximum 8 students.
2. A separate batch will be formed if this number exceeds even by one.
3. Workload for each batch will be equivalent to 8 lecture periods.
4. Students will be required to maintain a journal for this course and obtain the completion certificate from the teacher in-charge and certified by H.O.D. Without this certificate, the students will not be allowed to appear for the Internal Examination and End Semester Examination (ESE) as per the rules of credit system.

Conduct of practical Examination of Credit System.

[B] Evaluation of Practical-(Total 4 Credits)

1. There will be 40 marks for continuous (internal) assessment and 60 marks for End of Semester Examination

a) Continuous (Internal) Assessment of practical -40 marks

There will be internal practical examination after completion of five practical's and the division of 40 internal marks like following:

Items	Marks
Instruction & Conduction	10
Oral	10
Report Writing of the given Practical	10
Report of five Practical's and Punctuality	10
Total	40

b) End of Semester Examination (ESE) - 60 marks.

The End Semester Examination will be of 60 marks and division of marks like following.

Items	Marks
Instruction & Conduction	10
Oral	10
Report Writing of the given Practical	20
Report of five Practical's and Punctuality	20
Total	60

The program of the End Semester Examination will be prepared by Head of the Department.

1. Two examiners will be appointed by BOS committee, one of whom will be preferably internal examiner.
2. If no teacher from the department is eligible as internal examiner, then both examiners will
3. be out of the given department; one will work as internal examiner and one as external examiner.

4. Duration of the End Semester Examination of will be 4 hours per batch.
5. Each batch of practical examination will consist of maximum 8 students.
6. Internal and external examiners will jointly set question papers.
7. Each question paper will have three subsets i.e. A, B, C.
8. The question paper will contain problems based on the practical conducted at the respective centers. In the case where marks are given by internal as well as external examiners, average of the
9. Same will be calculated and considered as final marks of the students under the given heading.

[C] Remuneration to examiners for End Semester Examination

1. Each question paper will have three subsets i.e. A, B, C (the three subsets together will be treated as one question paper for billing purpose).
2. Remuneration will be equally divided between the two examiners.

Reference Books:-

1. Anastasi, A. & Urbina, S. (1997). *Psychological testing*. N.D.: Pearson Education.
2. Kaplan, R.M. & Saccuzzo, D.P. (2007). *Psychological Testing: Principles, Applications, and Issues*. Australia: Thomson Wadsworth.
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6. Cronbach L. J. (1984). *Essentials of Psychological Testing* (4th Ed)
7. Anastasi A. (1988). *Psychological Testing*. New York: McMillan
8. Murphy, K. R., Davidshofer, R. K. (1988): *Psychological testing: Principles and applications*. New Jersey: Prentice Hall Inc.
9. Nunnally, J.C. and Bernstein, I.H. (1994). *Psychometric theory (3rd ed)*. NY: McGraw-Hill.
10. Aiken L.R. (1996) *Rating Scales and Checklists: Evaluating Behavior, Personality and Attitudes*.
13. Chadha, N. K. (1996). *Theory and practice of psychometry*. N. D.: New Age International Ltd.
14. Test manuals of respective tests.