

Deccan Education Society's
FERGUSSON COLLEGE, PUNE
(AUTONOMOUS)

SYLLABUS UNDER AUTONOMY

M.A.-I - PSYCHOLOGY
SEMESTER – I

Academic Year 2016-2017

**Deccan Education Society's
Fergusson College (Autonomous), Pune
Faculty of Arts
Post Graduate Syllabus (Psychology)**

Semester	Course Code	Title of the Course	No. of Credits
I	PSY4101	Cognitive Processes	4
	PSY4102	Psychometry : Theory	4
	PSY4103	Statistical Methods	4
	PSY4104	Psychology Practical: Tests	4
II	PSY4201	Human Learning and Memory	4
	PSY4202	Psychometry: Applications	4
	PSY4203	Research Methodology	4
	PSY4204	Psychological Practical: Experiments	4

Extra Credits

Semester	Course Code	Title of the Course	No. of Credits
I	XHR0001	Human Rights - I	1
	XCS0002	Introduction to Cyber Security - I / Information Security - I	1
	XSD0003	Skill Development - I	1
II	XHR0004	Human Rights - II	1
	XCS0005	Introduction to Cyber Security - II / Information Security - II	1
	XSD0006	Skill Development - II	1

SEMESTER I

PSY4101: COGNITIVE PROCESSES

OBJECTIVES:

1. To acquaint the students with the processes involved in sensation and perception
 2. To develop insight into one's own and others' behaviour and underlying mental processes,
 3. To enrich students' understanding of major concepts, theoretical perspectives, and empirical findings in cognitive psychology
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1. NATURE AND IMPORTANCE OF COGNITIVE PSYCHOLOGY [12]

1. Cognitive Psychology: History, definition and domains
2. Methods of Cognitive psychology and Neuropsychology
3. Theories of cognitive development – Piaget, Vygotsky
4. Current paradigms of cognitive psychology – Information processing approach, ecological approach
5. Application: Cognitive style and cognitive map

2. SENSATION, ATTENTION AND PERCEPTION [12]

1. Sensation – Sense organs and sensation
2. Attention: (a) Functions of attention: Divided attention, selective attention (b) Theories of attention process (c) Signal Detection Theory and vigilance.
3. Perception-approaches: Gestalt, Bottom-Up (feature analysis, template matching, prototypes), Top-Down and Pandemonium
4. Perception: Cross-cultural studies
5. Application: Subliminal perception and extra-sensory perception.

3. LANGUAGE AND RELATED COGNITIVE PHENOMENA [12]

1. Understanding spoken language: Speech perception, constituent structure, transformational grammar and factors affecting comprehension
2. Reading: Perceptual process; theories of word recognition, reading and comprehension
3. Speaking: Selecting the content of speech, speech errors, gestures, social context of speech
4. Writing: Comparing speaking and writing, cognitive tasks involved in writing
5. Application: Development of Listening Skills, Multilingualism.

4. PROBLEM SOLVING, CREATIVITY AND DECISION MAKING [12]

1. Problem: Definition, problem solving cycle, types, obstacles and aids
2. Problem solving approaches – Algorithm; heuristics: means-end analysis computer simulation, and analogy
3. Definition of creativity, measurement creativity
4. Reasoning and decision-making: Types of reasoning – Syllogistic and Conditional; factors influencing decision-making.
5. Application: Artificial intelligence and Behavioral economics

RECOMMENDED BOOKS FOR READING:

1. Best, J. B. (1999). *Cognitive Psychology*. USA: Wadsworth Publishing Co.
2. Burne, L.E., Dominowski, R.L. & Loftus, E.E. (1979). *Cognitive processes*. NJ: Prentice-Hall.
3. Cohen G. (1983). *Psychology of cognition* (2nd ed). London: Academic Press

4. Corens, S., Ward, L.M., & Enns, J. (1994). *Sensation and perception*. NY: Harcourt Brace & Co.
5. Flavell, J.H. (1985). *Cognitive development (2nd ed)* NJ: Prentice Hall.
6. Galloti, K. M. (2004). *Cognitive psychology in and out of the laboratory*. USA:Thomson Wadsworth.
7. Gavin, H. (1998). *The essence of cognitive psychology*. London: Prentice-Hall.
8. Guenther R. K. (1998). *Human Cognition*. New Jersey: Prentice-Hall.
9. Jahnke, J. C. & Nowaczyk, R. H. (1998). *Cognition*. Upper Saddle NJ: Prentice Hall.
10. Kaplan, S. & Kaplan, R. (1982). *Cognition and environment*. N.Y.: Praeger Publishers.
11. Kellogg, R.T.(2007). *Fundamentals of Cognitive Psychology*. N.D. Sage Publications.
12. Matlin, M. (1994). *Cognition*. Bangalore: Harcourt Brace Pub.
13. Messer, D. & Miller, S. (1999). *Exploring developmental psychology*. London:Arnold.
14. Reed S. K. (1998). *Cognition: Theory and application (3rd ed)*. California: Brooks/Cole Pub. Company
15. Reed, S.K. (1988). *Cognition: Theory and applications (3rd ed)*. California: Brooks/Cole Pub. Co.
16. Solso, R. L. (2004). *Cognitive Psychology (6th ed)*. Delhi: Pearson Education.
17. Sternberg, R.J. (2007). *Cognitive Psychology*. Australia: Thomson Wadsworth.
18. Wade, C. and Tavris, C. (2007). *Psychology*. ND: Pearson Education.
19. Desai, B. and Abhyankar, S. C. (2010). *Prayogik Manasashastra ani Sanshodhan Paddhati*. Pune: Narendra Prakashan.
20. Borude, R.R. (2005). *Bodhanik Manasashastra*. Chhaya Prakashan.

SEMESTER I

PSY4102: PSYCHOMETRY: THEORY

OBJECTIVES:

1. To acquaint them with the characteristics of standardized tests.
 2. To familiarize the students with psychometric theory and principles of test construction.
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1. NATURE AND SCOPE OF PSYCHOLOGICAL TESTING [12]

1. Definition and characteristics of psychological tests
2. Classification and uses of psychological tests
3. General steps in test construction
4. Item analysis
5. Factors influencing test performance- Examiner, situational variables and Test-takers perspective

2. RELIABILITY [12]

1. Correlation coefficient: Meaning, statistical significance, reliability coefficient
2. Definition and types of reliability
3. Reliability of speeded tests
4. Dependence of reliability on the sample tested
5. Using reliability information

3. VALIDITY [12]

1. Validity: Definition and evolving concepts
2. Content-description validation procedures
3. Criterion-prediction procedures
4. Construct-identification procedures
5. Test validity and decision theory

4. NORMS AND THE MEANING OF TEST SCORES [12]

1. Developmental norms
2. Within-group norms- Percentiles, standard scores, the Deviation IQ
3. Relativity of norms
4. Issues in scoring
5. Issues in test administration: Ethics, bias, cultural fairness

RECOMMENDED BOOKS FOR READING:

1. Aiken L.R. (1996) *Rating Scales and Checklists: Evaluating Behavior, Personality and Attitudes*.
2. Anastasi A. (1988). *Psychological Testing*. New York: McMillan
3. Anastasi, A. & Urbina, S. (1997). *Psychological testing*. N.D.: Pearson Education.
5. Anastasi, A. (1988). *Psychological testing*. NY: Macmillan.
4. Chadha, N. K. (1996). *Theory and practice of psychometry*. N. D.: New Age International Ltd.
5. Cronbach, L. J. 5th ed. (1990). *Essentials of psychological testing*. New York: Harper Collins Publishers:
6. Freeman, F.S. 3rd ed. (1965). *Psychological testing*. New Delhi: Oxford & IBH

Publishing Co. Pvt. Ltd.

7. Ghiselli, E. E., Campbell, J. P. & Zedek, S. (1981). *Measurement theory for the behavioural sciences*. W.H. Freeman.
8. Ghiselli, E.E. and Campbell, J.P., Zedek, S. (1981). *Measurement theory for the behavioral sciences*. W.H. Freeman.
9. Gregory, R.J. (2005). *Psychological testing: History, principles and applications*. New Delhi: Pearson Education.
10. Kaplan, R.M. & Saccuzzo, D.P. (2007). *Psychological Testing: Principles, Applications, and Issues*. Australia: Thomson Wadsworth.
11. Kline, P. (1983). *Personality measurement and theory*. Hutchinson.
12. Murphy, K. R., Davidshofer, R. K. (1988): *Psychological testing: Principles and applications*. New Jersey: Prentice Hall Inc.
13. Nunnally, J.C. (1981). *Psychometric theory*. NY: Tata McGraw-Hill
14. Patna: Bharati Bhavan.
15. Singh, A.K. (2006). *Tests, Measurements and Research Methods in Behavioural Sciences*.
16. Desai, B. and Abhyankar, S. C. (2010). *Prayogik Manasashastra ani Sanshodhan Paddhati*. Pune: Narendra Prakashan.

SEMESTER I
PSY4103: STATISTICAL METHODS

OBJECTIVES: -

1. To acquaint the students and make them understand the different statistical methods with their uses and interpretations,
 2. To develop computational skills in students,
 3. To enable them to analyze the data of practical and project work.
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1. OVERVIEW OF DESCRIPTIVE STATISTICS AND PROBABILITY [12]

1. Overview of measures of Central tendency, variability, curves and graphs
2. Percentiles, percentile ranks and standard scores
3. Probability: Concept, definition, and approaches
4. Characteristics of normal distribution curve
5. Applications of normal distribution curve.

2. CORRELATION AND REGRESSION [12]

1. Concept and meaning of correlation
2. Pearson's Product-Moment Correlation
3. Point – Biserial Correlation and Phi-coefficient
4. Bi-serial and tetra choric correlation
5. Partial and Multiple Correlation
6. Simple Linear Regression: Concept and uses

3. INFERENCE STATISTICS [12]

1. Inferences: Standard error of mean and other statistics
2. Significance of difference for means, variances and correlation coefficients.
3. Assumptions of Analysis of Variance, and One-way ANOVA- Independent, concept of repeated measures
4. Two-way ANOVA - Independent, concept of repeated measures
5. Analysis of Covariance: Concept.

4. NON-PARAMETRIC STATISTICS [12]

1. Difference between Parametric and Non-parametric statistics
2. Chi Square tests
3. Non-parametric tests for correlated data- Rank Difference Correlation, Sign Test, Wilcoxon Signed Rank test
4. Non-parametric tests for uncorrelated data - Mann-Whitney U-test and Kruskal-Wallis Test
5. Statistical software: An introduction – SPSS, Excel

NOTE-

1. Students can use non-scientific calculator during examination.
2. Calculation exercises in the question paper shall be restricted to the following:
 1. Percentile, Percentile Ranks and Standard Scores
 2. Application of Normal Probability Curve
 3. Product Moment Correlation exercises shall be set on only grouped data with formula d. Scatter-Diagram
 4. t-test exercises shall be set on only independent sample f. One-way and Two-way ANOVA
 5. g. Chi-square Tests, exercises shall be set on only 2x2, Equal probability

RECOMMENDED BOOKS FOR READING:

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

SEMESTER I

PSY4104: PSYCHOLOGY PRACTICAL - TESTS

OBJECTIVES:

To acquaint the students with:

1. The administration of psychological tests, interpretation of scores and report writing,
2. The evaluation procedures and evaluation of psychological tests,
3. Certain skills of psychological counselling on the basis of psychological test results.

** Note: Only standardized tests should be used.*

1. GENERAL ABILITY TESTS (any two):

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

2. SPECIAL ABILITY TESTS (any two):

1. Multiple Aptitude Test
2. Special Aptitude Test

3. PERSONALITY TESTS (any three):

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

4. 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

RECOMMENDED BOOKS FOR READING:

1. Aiken L.R. (1996) *Rating Scales and Checklists: Evaluating Behavior, Personality and Attitudes*.
2. Anastasi A. (1988). *Psychological Testing*. New York: McMillan
3. Anastasi, A. & Urbina, S. (1997). *Psychological testing*. N.D.: Pearson Education.
4. Buros, O. (ed). (1965, 1972). *The mental measurement*. Year Book, NJ: Gryphon Press.
5. Chadha, N. K. (1996). *Theory and practice of psychometry*. N. D.: New Age International Ltd.
6. Cronbach L. J. (1984). *Essentials of Psychological Testing* (4th Ed)
7. Freeman, F.S. 3rd ed. (1965). *Psychological testing*. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd.
8. Ghiselli, E. E., Campbell, J. P. & Zedek, S. (1981). *Measurement theory for the behavioural sciences*. W.H. Freeman.
9. Gregory, R.J. (2005). *Psychological testing: History, principles and applications*. New Delhi: Pearson Education.
10. Guilford, J.P. (1975). *Psychometric methods*. ND: Tata McGraw-Hill.
11. Kaplan, R.M. & Saccuzzo, D.P. (2007). *Psychological Testing: Principles, Applications, and Issues*. Australia: Thomson Wadsworth.
12. Murphy, K. R., Davidshofer, R. K. (1988): *Psychological testing: Principles and applications*. New Jersey: Prentice Hall Inc.
13. Nunnally, J.C. and Bernstein, I.H. (1994). *Psychometric theory (3rd ed)*. NY: McGraw-Hill.
14. Singh, A.K. (2006). *Tests, Measurements and Research Methods in Behavioural Sciences*. Patna: Bharati Bhavan.
15. Stanley, J.C. and Hopkins, K.D. (1978). *Educational and psychological measurement and evaluation*. ND: Prentice-Hall of India.
16. Test manuals of respective tests.

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SYLLABUS UNDER AUTONOMY

M.A.-I - PSYCHOLOGY
SEMESTER – II

Academic Year 2016-2017

SEMESTER II

PSY4201: HUMAN LEARNING AND MEMORY

OBJECTIVES:

To acquaint the students with:

1. Various types, models and theories of learning and memory,
 2. Neurological basis of learning and memory,
 3. Applications of the principles of learning and memory
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1. LEARNING: THEORIES AND APPLICATIONS [12]

1. Classical Conditioning: Concepts, types and applications
2. Operant Conditioning: Reinforcement, types, schedules of reinforcement, shaping and applications
3. Cognitive approaches to learning: Latent learning, observational learning, and applications
4. Cultural influences on learning
5. Application: Conditioning and Education, Media and violence.

2. TYPES OF MEMORY [12]

1. Sensory memory- Iconic and echoic
2. Short Term Memory
3. Long Term Memory: Types
4. Determinants of memory
5. Applications: Memory improvement techniques

3. MODELS AND THEORIES OF MEMORY [12]

1. Unitary and dual process view: Waugh and Norman
2. Multi-process view: Atkinson and Shiffrin; Craik and Lockhart
3. Connectionist model: Rumelhart and McClelland
4. Theories of forgetting: Psychoanalytical, Trace, Trace Decay, Interference, and recent trends.
5. Application: Distortion of memory

4. NEUROLOGICAL BASIS OF LEARNING AND MEMORY [12]

1. Brain areas associated with learning and memory
2. Types of Amnesia- Amnesia after concussion (Anterograde, Retrograde), Korsakoff, Alzheimer's disease
3. Studies on role of brain in learning and conditioning
4. Synaptic mechanisms and synaptic plasticity of learning and memory
5. Application: Neuro-linguistic programming

RECOMMENDED BOOKS FOR READING:

1. Best, J. B. (1999). *Cognitive Psychology*. USA: Wadsworth Publishing Co.
2. Carlson, N. R. (2007). *Foundations of physiological psychology*. N.D.: Pearson Edu.
3. Cohen G. (1983). *Psychology of cognition* (2nd ed.). London: Academic Press.
4. Emilien, G., Durlach, C., Antoniadis, E., Linden, M. Vd. & Maloteaux, J.M. (2004). *Memory*. NY: Psychology Press.
5. Flavell, J.H. (1985). *Cognitive development*. 2nd ed. N.J.: Prentice-Hall.
6. Galloti, K. M. (2004). *Cognitive psychology in and out of the laboratory*. USA: Thomson Wadsworth.
7. Guenther R. K. (1998). *Human Cognition*. New Jersey: Prentice-Hall.
8. Horn, G. (1985). *Memory imprinting and the brain*. Oxford: Clarendon Press.
9. Horton, D. L. and Turnage, T. W. (1976). *Human learning*. ND: Prentice-Hall
10. Jahnke, J.C. & Nowaczyk, R.H. (1998). *Cognition*. Upper Saddle NJ: Prentice Hall.
11. Kaplan, S. & Kaplan, R. (1982). *Cognition and environment*. N.Y.: Praeger Publishers.
12. Kellogg, R. T. (2007). *Fundamentals of Cognitive Psychology*. N.D. Sage Publications.
13. Kothurkar, V. K. (1985). *About learning and memory*. ND: Wiley Eastern.
14. Malim, T. (1994). *Cognitive processes*. London: MacMillan.
15. Matlin, M. (1994). *Cognition*. Bangalore: Harcourt Brace Pub.
16. Pinel, J.P.J. (2007). *Biopsychology*. N.D.: Pearson Edu.
17. Reed S. K. (1998). *Cognition: Theory and application* (3rd ed). California: Brooks/Cole Pub. Company
18. Rosenzweig, M.R., Leiman, A.L. & Breedlove, S.M. (1996). *Biological psychology*. Massachusetts: Sinauer Associates Publishers.
19. Solso, R. L. (2004). *Cognitive Psychology* (6th ed.). Delhi: Pearson Education.
20. Sternberg, R. J. (2007). *Cognitive Psychology*. Australia: Thomson Wadsworth.
21. Wade, C. and Tavis, C. (2007). *Psychology*. Pearson Education.
22. Borude, R.R. *Bodhanik manasashastra*. Chhaya Prakashan.
23. Desai, B. and Abhyankar, S. C. (2007). *Prayogik manasashastra and sanshodhan paddhati*. Pune: Narendra Prakashan.

SEMESTER II

PSY4202: PSYCHOMETRY: APPLICATIONS

OBJECTIVES:

To acquaint the students with:

1. Various psychological assessment techniques
2. Application of psychological tests in different fields.

1. TESTING IN EDUCATIONAL SETTING [12]

1. General mental ability tests: Group tests –SPM, Cattell’s Culture-fair Test of Intelligence
2. General mental ability tests: Individual tests- Binet - Kamath test, WISC, WAIS,
3. Malin’s Intelligence Scale for Indian Children (MISIC)
4. Differential Aptitude Test (DAT)
5. Personality inventories- 16 PF, NEO-PI R, EPQ-R

2. TESTING IN CLINICAL SETTING [12]

1. MMPI
2. Tests for children with special needs : Autism, Learning Disability
3. Projective Techniques
4. Interpretation of Projective techniques
5. Neuropsychological testing

3. TESTING IN INDUSTRIAL AND BUSINESS SETTING [12]

1. Personality tests used for personnel selection- MBTI
2. Dexterity tests - O’Conner Finger Dexterity Test, Bennett Hand-Tool Dexterity Test, Minnesota Manual Dexterity Test.
3. Situational testing (games, role play) and in-basket exercises
4. Measuring interpersonal relationship – FIRO-B
5. Leadership assessment.

4. TESTING IN COUNSELING SETTING [12]

1. Assessment of self, SWOT analysis
2. Irrational beliefs scale
3. STAXI
4. Assessment of stress
5. Tests for children with special needs

BOOKS FOR READING-

1. Aiken L.R. (1996) *Rating Scales and Checklists: Evaluating Behavior, Personality and Attitudes*
2. Anastasi A. (1988). *Psychological Testing*. New York: McMillan
3. Anastasi, A. & Urbina, S. (1997). *Psychological testing*. N.D.: Pearson Education.
4. Chadha, N. K. (1996). *Theory and practice of psychometry*. N. D.: New Age International Ltd.
5. Cronbach, L. J. 5th ed. (1990). *Essentials of psychological testing*. New York: Harper Collins Publishers:
6. Freeman, F.S. 3rd ed. (1965). *Psychological testing*. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd.
7. Ghiselli, E. E., Campbell, J. P. & Zedek, S. (1981). *Measurement theory for the behavioural sciences*. W.H. Freeman.
8. Gregory, R.J. (2005). *Psychological testing: History, principles and applications*. New Delhi: Pearson Education.
9. Kaplan, R.M. & Saccuzzo, D.P. (2007). *Psychological Testing: Principles, Applications, and Issues*. Australia: Thomson Wadsworth.
10. Kline, P. (1983). *Personality measurement and theory*. Hutchinson.
11. Murphy, K. R., Davidshofer, R. K. (1988): *Psychological testing: Principles and applications*. New Jersey: Prentice Hall Inc.
12. Nunnally, J.C. (1981). *Psychometric theory*. ND: Tata McGraw-Hill.

SEMESTER II

PSY4203: RESEARCH METHODOLOGY

OBJECTIVES:

To acquaint the students with:

1. The basic research concepts,
2. Steps in research process,
3. The basic terminology of advanced research techniques so that they can follow the research reports and papers in different branches of psychology,
4. Some commonly used research designs and the APA style of preparing research proposal and writing research report.

1. OVERVIEW OF RESEARCH PROCESS AND SURVEY RESEARCH [12]

1. Overview of basic research concepts (problem, hypothesis, variables and operational definitions), APA style of preparing research proposal' writing research report
 1. Sampling techniques
 2. Methods of data collection: Observation, mail surveys (questionnaires), personal interviews, telephone interviews, and internet surveys
 3. Survey research designs- Cross-sectional, successive independent samples, longitudinal
 4. Problems, issues, and applications of survey research

2. EXPERIMENTAL DESIGNS [12]

1. Experimental designs: Definition, principles and functions
2. Within- group design: Complete and Incomplete.
3. Between-group design: Randomized, Matched and factorial
4. Factorial designs: Simple factorial designs, factorial designs with covariate, randomized block factorial designs
5. Conceptual distinction among between group designs, repeated measures designs, and mixed designs.

3. QUASI-EXPERIMENTAL DESIGNS [12]

1. Characteristics and types of quasi-experimental designs: Single-group designs, pre test-post test designs
2. Non-equivalent control group designs, Equivalent time sample design, counterbalanced design, Separate sample pre-test and post test design.
3. Patched up design, Ex-post facto design, time series designs, cohort designs
4. Application of quasi-experimental designs in program evaluation research.

4. OTHER MULTIVARIATE DESIGNS AND QUALITATIVE RESEARCH [12]

1. Factor analysis: Basic terms, overview of extraction methods Overview of rotation methods, higher order factor analysis
2. Exploratory and Confirmatory factor analysis
3. Other multivariate techniques: Multiple regression, multivariate analysis of variance, Discriminant functions analysis, canonical correlations, and path analysis.
4. Structural equation modelling
5. Qualitative research design and Analysis of Qualitative data

BOOKS FOR READING-

1. Bhattacharya, D. K. (2003). *Research Methodology*. New Delhi: Excel Books.
2. Borude, R.R. (2005). *Sanshodhan Paddhatishastra*. Pune: Pune Vidyarthi Gruha
3. Broota, K.D. (1989). *Experimental design in behavioural research*. Wiley Eastern.
4. Edwards, A.L. (1969). *Techniques of attitude scale construction*. Vakil, Feffer & Simons.
5. Edwards, A.L. (1985). *Experimental designs in psychological research*. Harper & Row.
6. Goode, W.J. & Hatt, P.K. (1952). *Methods in social research*.
7. Hair, J.F., Anderson, R. E., Tatham, R.L., & Black, W.C. (2003). *Multivariate data analysis (5th ed)*. ND: Pearson Education, Inc.
8. Howitt, D. and Crammer, D. (2005). *Introduction to Research Methods in Psychology*. Pearson Education.
9. Kerlinger F.N. (1994). *Foundations of behavioral research* (3rd ed)
10. Kothari, C. R. (1985). *Research methodology: Methods and techniques*. New Delhi: Wiley Eastern Ltd.
11. Locke, L.F., Sliverman, S.J. & Spirduso, W.W. (2004). *Reading and understanding research (2nd ed)*. Thousand Oaks: Sage Publications.
12. Mason E.J. and Bramble W.J. (1989). *Understanding and conducting research: Applications in education and behavioral sciences* (2nd ed)
13. Neuman W. Lawraence (2007) *Social Research Methods*, Pearson Education.
14. Nunnally, J.C., & Bernstein, I.H. (1994). *Psychometric theory (3rd ed)*. NY: McGraw-Hill.
15. Ranjit Kumar (2006). *Research methodology: A step-by-step guide for beginners*. N.D.: Pearson Education.
16. Richards Lyn and Morcse Janice M. (2013) *README FIRST FOR A USER'S GUIDE TO Qualitative methods*, Third Edition, Sage Publication.
17. Robinson, P.W. (1976). *Fundamentals of experimental psychology*. Prentice-Hall.
18. Rosnow, R.L. & Rosenthal, R. (1999). *Beginning behavioral research: A conceptual primer (3rd ed)*. Upper Saddle River NJ: Prentice-Hall
19. Shaughnessy J.J. and Zechmeister E.B. (1997). *Research Methods in Psychology* (4th ed)
20. Singh A.K. (2006). 5th ed. *Tests, Measurement and Research Methods in Behavioural Sciences*. Patna: Bharati Bhavan.
21. Smith, R.A., & Davis, S.F. (1997). *The psychologist as detective: An introduction to conducting research in psychology*. Upper Saddle River NJ: Prentice-Hall.
22. Tabachnick B.G. and Fidell L.J. (2001). *Using Multivariable statistics* (4th ed)
23. Zechmeister J.S., Zechmeister E.B. & Shaughnessy J.J. (2001). *Essentials of research methods in psychology*.
24. Desai, B. and Abhyankar, S. C. (2008). *Prayogik manasashastra and sanshodhan paddhati*. Pune: Narendra Prakashan.

SEMESTER II

PSY4204: PSYCHOLOGY PRACTICAL: EXPERIMENTS

OBJECTIVES:

To acquaint the students with:

1. The different areas of experimentation in psychology,
2. Various skills of conducting experiments in psychology,
3. Applications of experimental design,
4. Report writing style.

1. COGNITIVE PROCESSES (ANY 3):

1. Signal Detection - ROC
2. Perceptual Defense
3. Concept Formation
4. Problem Solving
5. Study of Mental Imagery
6. Peterson's Test of Rational Learning
7. Stroop Effect in Visual Perception
8. Effect of feedback on Illusion
9. Time perception

2. LEARNING (ANY 3):

1. Learning by Insight (Bolt Head Maze)
2. Interference : Retroactive / Proactive
3. Paired Associate Learning
4. Serial Learning
5. Verbal Conditioning
6. Transfer of training in maze learning (Finger Maze with two Subjects)

3. MEMORY (ANY 2):

1. Short Term Memory
2. Effect of Mnemonic Strategy on Memory
3. Immediate Memory Span: Meaningful Vs. Meaningless Material
4. Organization in Memory
6. Memory for Unattended Material
7. Memory for Associated and Un-associated Pairs of Words-

4. MOTIVATION AND EMOTION (ANY 2):

1. Zeigarnik Effect
2. Effect of Anxiety on Performance
3. Knowledge of Result
4. Goal Setting
5. Level of Aspiration- Steadiness Tester or Tower Building Blocks

Books for Reading:

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