



Maharashtra Education Society

Abasaheb Garware College

(Autonomous)

(Affiliated to Savitribai Phule Pune University)

Post Graduate Degree Program

(Faculty of Humanities)

Syllabi under Autonomy

M.A. I (Psychology)

Choice Based Credit System Syllabus

To be implemented from Academic Year 2022-2023

M.A.I. (PSYCHOLOGY)

PAPS-111: COGNITIVE PSYCHOLOGY: UNDERSTANDING

Objectives:

To understand the origin of cognitive psychology

To explore the knowledge of cognitive psychology

To make students aware with the recent trends in cognitive psychology

To help students in relating subject matter of cognitive psychology to daily life

M.A.I PSYCHOLOGY CBCS

Eligibility:

Student who has completed B.A in Psychology is eligible to get admission to the course.

Structure of the course: **M.A. - I: PSYCHOLOGY**

Year	Semester	Course Type	Course Code	Course Title	Remark	Credit	No. of Lectures/practical to be conducted
First Year	I	Theory	PAPS-111	Cognitive Psychology: Understanding		04	64
		Theory	PAPS-112	Psychometrics: The Science Of Psychological Assessment		04	64
		Theory	PAPS-113	Research Methodology-I (Issues And Essential Techniques In Statistics And Experimental Design)		04	64
		Practical	PAPSP-114	Psychology Practical: Testing		04	64
	II	Theory	PAPS-121	Cognitive Psychology: Advances And Application		04	64
		Theory	PAPS-122	Psychometrics: Applications		04	64

M.A.I PSYCHOLOGY CBCS

		Theory	PAPS-123	Research Methodology-II (Qualitative methods and contemplative practices)		04	64
		Practical	PAPS-124	Psychology Practical: Experiments		04	64
Sec ond Ye ar	III	Theory	PAPS-231	Counselling Process and Skills		04	64
		Theory	PAPS-232	Psychopathology-1		04	64
		Theory	PAPS-233	Psycho-diagnostics		04	64
		Project	PAPS-234	Project- Clinical Base		04	64
	IV	Theory	PAPS-241	Areas of Counselling		04	64
		Theory	PAPS-242	Psychopathology-2		04	64
		Theory	PAPS-243	Psychotherapies		04	64
		Project	PAPS-244	Practicum- Clinical Base		04	64

SEMESTER-I

PAPS-111: COGNITIVE PSYCHOLOGY: UNDERSTANDING

(Credits 04)

Learning Outcomes:

To understand the origin of cognitive psychology

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To make students aware with the recent trends in cognitive psychology

To help students in relating subject matter of cognitive psychology to daily life

Unit-1: Introduction to Cognitive Psychology

Lecture-12

1.1. Definition, Nature and Scope of Cognitive Psychology

1.2. History of Cognitive Psychology

1.3. Methods to study cognitive Psychology

Observation

Introspection

Experimental

Quasi-Experimental

Neuropsychological Assessment- Physiological and Psychological.

1.4 The Emergence of Modern Cognitive Psychology

1.5. Application: Understanding Cognitive Map

Unit-2: Exploring Cognitive Psychology

Lecture-12

2.1. Definition, Nature and Theories:

(i) **Sensation:** Empiricism, Natural Science, Structuralism, Gestalt, Psychophysical approach, Theories of Color Vision, Theories of Pitch

(ii) **Perception:** Bottom Up theories of Perception, Top down perception theories, Computational theories

2.2. Definition, Nature and Theories:

(i) **Attention:** Bottleneck theory, Automatic versus controlled processing, Feature integration theory, Stroop Effect, vigilance, Signal Detection

(ii) **Pattern Recognition:** Template matching theory, Prototype models, Distinctive-features models and Computational approach

2.3. Definition, Nature and Theories:

(i) **Thinking:** Associationism, Gestalt, Information Processing

(ii) **Problem Solving:** Problem Space theory, Means-End Hypothesis, Analogy Approach, Theories and factors affecting problem solving

2.4. Application: Extra sensory perception

Unit-3: Exploring Cognitive Psychology

Lecture-12

3.1. Definition, Nature and Theories :

(i) **Learning:** Hull's Systematic Behaviour Theory, Lewin's Field Theory of Learning, Tolman's Sign Learning, Gagne's Theory of Learning, Bandura's Social Learning Theory,

(ii) **Memory Model :** Unitary, Dual, Multimodal, Working Memory model

3.2. Definition, Nature and Theories : (i) Artificial Intelligence, (ii) Language

3.3. Definition, Nature and Theories : (i) Decision Making, (ii) Creativity

3.4. Application : memory Improvement Techniques

Unit-4: Recent Trends in cognitive Psychology

4.1. **Recent Trends in :** (i) Sensation, (ii) Perception, (iii) Attention- :Biological Bases of Attention,

4.2. **Recent Trends in:** (iv) Creativity, (v) Thinking, (vi) Problem Solving (समस्या सोडविणे)

4.3. **Recent Trends in:** (i) Learning, (ii) Memory, (iii) Pattern Recognition (संघात प्रत्याभिज्ञान)

4.4. **Recent Trends in:** (i) Language, (ii) Artificial Intelligence, (iii) Decision Making

4.5. Application of Cognitive Psychology in day to day life.

READINGS:

1. Anderson, J. R. (2015). *Cognitive psychology and its implications*. New York: Worth Publishers
2. Best, J. B. (1999). *Cognitive Psychology*. USA: Wadsworth Publishing Co.
3. Borude, R.R. *Bodhanikmanasashastra*. ChhayaPrakashan.
4. Galloti, K. M. (2004). *Cognitive psychology in and out of the laboratory*. USA: Thomson Wadsworth.
5. Horton, D. L. and Turnage, T. W. (1976). *Human learning*. ND: Prentice-Hall
6. Kellogg, R. T. (2007). *Fundamentals of Cognitive Psychology*. N.D. Sage Publications
7. Matlin, M. (1994). *Cognition*. Bangalore: Harcourt Brace Pub.
8. Singh, Shyam & Singh (2008) *Psychoneuroimmunology*, Global Vision, New Delhi
9. Sternberg, R. J. (2007). *Cognitive Psychology*. Australia: Thomson Wadsworth.
10. Solso, R. L. (2004). *Cognitive Psychology (6th ed.)*. Delhi: Pearson Education.
11. बोरुडे आर.आर (२००५) बोधनिक मानसशास्त्र, छाया प्रकाशन
12. भरत देसाई आणि शोभना अभ्यंकर (२००७) प्रायोगिक मानसशास्त्र आणि संशोधन पद्धती, नरेंद्र प्रकाशन, पुणे.

SEMESTER-I

PAPS-112 PSYCHOMETRICS: THE SCIENCE OF PSYCHOLOGICAL ASSESSMENT

Credit -04

Learning Outcomes:

To create critical understanding of measurement issues and techniques in psychological inquiry.

To enable students to develop skills and competencies in test construction and standardization.

To understand the various biases in psychological testing and assessment.

Unit-1. Perspectives on psychometrics

Lecture-12

1.1. Scientific method, realism, truth and psychology

1.2. Scientific measurement in psychometrics and measurement in the natural sciences

- 1.3. Measurement models: Classical test theory, Latent variable model, Representational measurement model
- 1.4. The theory of true scores, the statistical true score, the platonic true score, Psychological vs. Physical true score, the true psychometric: trait or function, Standard score.
- 1.5. Ethical issues in psychological testing.
- 1.6 The importance of Psychometrics and psychological measurement

Unit-2. Process of test construction:

Lecture-12

- 2.1. Types of tests
 - 2.1.1 Knowledge-based and person-based questionnaire
 - 2.1.2. Objective and open-ended tests
 - 2.1.3. Norm-referenced and criterion-referenced testing
 - 2.1.4. The correction for guessing in objective knowledge based test
- 2.2. Item analysis and DIF (degree of freedom)
 - 2.2.1. Classical item analysis statistics for person-based tests
 - 2.2.2. Item analysis in criterion-referenced testing
- 2.3. Item response theory (IRT)
- 2.4. Relation of IRT and Classical test theory
- 2.5. Item characteristic curve

Unit-3. Standardization of tests

Lecture-12

- 3.1. Reliability: Concept and types of reliability, forms of error; Spearman-Brown correction, cautions in the use of reliability coefficient
- 3.2. Validity: Concepts and types of validity; Political validity; Confusion between validation and validity.
- 3.3. Normalisation: Algebraic normalisation, graphical normalisation
- 3.4. Norms: Meaning and types of norms
- 3.5. The use of Factor Analysis in test construction

Unit- 4. Bias in testing and computer applications

Lecture-12

- 4.1. Forms of bias
 - 4.1.1. Item bias: Identifying item bias
 - 4.1.2. Differential item functioning, item offensiveness
- 4.2. Intrinsic test bias: Statistical models of intrinsic test bias
- 4.3. Extrinsic test bias: Extrinsic test bias and ideology; legal aspects of extrinsic test bias; guidelines in case of test bias
- 4.4. Computers and researchers
- 4.5. Computerization in psychological Testing
- 4.6 Artificial intelligence and psychological testing

READINGS:

Borsboom, D. (2005). *Measuring the mind: Conceptual issues in contemporary psychometrics*. UK: Cambridge University Press.

Chadha, N. K. (2009). *Applied psychometry*. New Delhi, India: Sage.

Kline, P. (1998). *The new psychometrics: Sciences, psychology and measurement*. London & New York: Routledge.

Michell, J. (1990). *An Introduction to the logic of psychological measurement*. Hillsdale,

MI: Erlbaum.

Rust, J., & Golombok, S. (2009). *Modern psychometrics: The science of psychological assessment*. London and New York: Routledge.

SEMESTER-I

PAPS-113: RESEARCH METHODOLOGY-I (ISSUES AND ESSENTIAL TECHNIQUES IN STATISTICS AND EXPERIMENTAL DESIGN)

Credit -04

Learning Outcomes:

To inform students about the basics of scientific research in applied psychology.
To make them learn the statistical rigours in designing research and processing data.

1. Introduction to research

Lecture-12

1.1. Methods of knowledge, Meaning, purpose and dimensions of scientific research.

1.2. Paradigms of research

1.2.1. Qualitative

- 1.2.2. Quantitative
- 1.3. Types of research
- 1.4. The research Process
- 1.5. Ethical problems and principles.

2. Introduction to statistics

Lecture-12

- 2.1. Nature of data
- 2.2. Measures of central tendency and variability
- 2.3. Computations for mean, median, mode and measures of variability
- 2.4. Testing the normality
- 2.5. Parametric and Non Parametric Statistics
- 2.6. Correlation and Regression

3. Research Problem, Sampling and hypothesis testing

Lecture-12

- 3.1. Research problem, definition and selection
- 3.2. Sampling procedures of hypothesis testing
- 3.3. Sampling design: definition and characteristics
- 3.4. Types of sample designs
- 3.5. Appropriate selection of Statistical techniques
- 3.6. Ethical issues in sampling

4. Experimental Design and Analysis of Variance

Lecture-12

- 4.1. Definition and functions of experimental design
- 4.2. Types of experimental design
- 4.3. Selection of statistical methods
 - 3.2.1. Randomized experimental and quasi-experimental approaches
 - 3.2.2. Group vs. single-subject designs
- 4.4. t test
- 4.5. ANOVA

Quantitative analysis for examination purpose: NPC, Correlation, regression, Students t- test and one way ANOVA , Sample selection.

READINGS:

Aron, Arthur; Aron, Elaine N.; Coups, Elliot J. (2006). *Statistics for Psychology* (4thEdn.). Dorling Kindersley (India) Pvt. Ltd. With Pearson Education Limited.

Bridget, S., & Cathy, L. (Eds.) (2008). *Research methods in the social sciences*. New Delhi, India: Vistaar Publication.

Broota, K. D. (1989, reprint 2014). *Experimental design in Behavioural Research*. New Age International Pvt. Ltd., New Delhi.

Chadha, N. K. (2009). *Applied psychometry*. New Delhi, India: Sage.

Garrett, Henry E. (2006). *Statistics in Psychology and Education* (1st Indian reprint). Surjeet Publications, Delhi-7.

Gliner, J. A., & Morgan, G. A. (2000). *Research methods in applied settings: An integrated approach to design and analysis*. Mahwah, NJ: Lawrence Erlbaum.

Howell, D. C. (2002). *Statistical methods for psychology* (5th ed.). Duxbury, California: Thomson Learning.

Kerlinger, Fred N. (2009). *Foundation of behavioral research* (9th reprint). Holt, Rinehart and Winston, Inc. USA. (Surjeet Publications, New Delhi).

Kothari, C. R. (2011). *Research Methodology: Methods and Techniques* (2nd revised edition). New Age International Publishers, New Delhi

Mangal, S. K. (2009). *Statistics in Psychology and Education* (2nd Edition- 10th printing). PHI learning Pvt. Ltd., New Delhi.

McBurney, Donald H.; White, Theresa L. (2007). *Research Methods* (7th Edition). Thomson. Pallant Julie (2010). *SPSS Survival Manual: A step by step guide to data analysis using SPSS* (4th Ed.). McGraw-Hill.

Ranjit Kumar (2015). *Research Methodology: A Step by step guide for beginners*. Pearson.

Singh, A. K. (2006). *Tests, Measurements and Research Methods in Behavioural Sciences* (5th Edition). Bharati Bhawan: Publishers and Distributors.

Tabachnick, Barbara G.; Fidell, Linda S. (2007). *Using Multivariate Statistics* (5th Edn.). Pearson.

Tredoux Colin and Durrheim Kevin (2002). *Numbers, Hypotheses & Conclusions: A Course in Statistics for the Social Sciences*. UCT Press, Lansdowne, SA.

Zechmeister, Jeanne S.; Zechmeister, Eugene B.; Shaughnessy, John J. (2009). *Essentials of Research Methods in Psychology*. Tata McGraw-Hill.

SEMESTER-I

PAPSP-114: PSYCHOLOGY PRACTICAL: TESTING

Credit -04

Learning Outcomes:

To acquaint the students with:

1. The administration of the standardized psychological tests, rapport establishment, interpretation of scores and report writing.
2. The criteria's of evaluating psychological tests
3. Certain counseling skills on the basis of psychological results

UNIT-1: GENERAL AND SPECIAL ABILITY TESTS (any three)

1. Standard Progressive Matrices, Cattell's Culture Fair Test of Intelligence

2. WAIS-5 th Edn, WISC-IV (India), GATB, GMAT
3. Stanford Binet Intelligence scale, DAT, DBDA, EATB
4. Torrence test of Creativity / Salahkar Creativity Test / Passi Creativity test
5. Reasoning Ability Test, Cognitive Ability Test

UNIT-2: PERSONALITY TESTS (any three)

1. NEO-PI-R, NEO-FFI, 16 PF, MBTI (Form F)
2. Vocational Preference Inventory by J. I Holland
3. Bell's Adjustment Inventory
4. Thematic Apperception Test (TAT), Children's apperception test (CAT)
5. Attitude and Value Scale

UNIT-III: CLINICAL TESTS (Any two)

1. WAIS memory MMPI / MCMI,
2. Neuropsychological Assessment Battery (NAB)
3. Adult Neuropsychological Questionnaire/ Bender Gestalt test.
4. State-Trait Anger Expression Inventory-2 (STAXI-2)
5. Depression Scale (BDI, HAM-D)

UNIT-IV: OTHER TESTS (ANY TWO)

1. FIRO-B
2. Assessment of Subjective Wellbeing
3. Career and Family Value Scale
4. Family Environment Scale
5. Self-Concept, Self-esteem, Body Image Scale

READINGS:

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 Behavioural Sciences. Patna: Bharati Bhavan.
5. Freeman, F.S. 3rd ed. (1965). Psychological testing. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd.
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.
11. Buros, O. (ed). (1965, 1972). The mental measurement. Year Book, NJ: Gryphon Press.
12. Ghiselli, E. E., Campbell, J. P. & Zedek, S. (1981). Measurement theory for the behavioural sciences. W.H. Freeman.
13. Chadha, N. K. (1996). Theory and practice of psychometry. N. D.: New Age International Ltd.
14. Stanley, J.C. and Hopkins, K.D. (1978). Educational and psychological measurement and evaluation. ND: Prentice-Hall of India.
15. Guilford, J.P. (1975). Psychometric methods. ND: Tata McGraw-Hill. 16. Test manuals of respective tests.

SEMESTER-II

PAPS-121: COGNITIVE PSYCHOLOGY: ADVANCES AND APPLICATION

Credit -04

Learning Outcomes:

1. To understand the advances in cognitive psychology
2. To study the application of cognitive psychology in different fields

Unit-1: Advances in Cognitive Psychology- I

Lecture-12

- 1.1. Definition and Nature:** Consciousness
- 1.2. Definition and Nature:** Critical Thinking
- 1.3. Definition and Nature:** Neuropsychology
- 1.4. Conceptual Understanding:** Metacognition

1.5 **Application:** Brain Assessment Tools : CT Scan, MRI, fMRI, PET Scan, Static imaging techniques and Metabolic imaging

Unit-2: Advances in Cognitive Psychology-II

Lecture-12

2.1. Thought and Language

2.2. Sex Differences and Cognitive Abilities

2.3. IQ, EQ and Creative Thinking

2.4. Reading, Writing, Speaking and Cognitive Phenomenon

2.5. **Application:** Develop Critical Thinking, Bilingualism and second-language acquisition

Unit-3: Applications of Cognitive Psychology- I

Lecture-12

3.1. **Application in Clinical Psychology:** Brain and Behaviour Problems

3.2. **Application in Clinical Psychology:** Psychotherapies and research

3.3. **Application in Education Psychology:** (i) Child development (ii) Learning styles

3.4. **Application in Education Psychology:** (i) Forgetting (ii) Moral development

3.5. **Application:** Cognitive Stages of Development and Teaching methods/techniques

Unit-4: Applications of Cognitive Psychology- II

Lecture-12

4.1. **Application in Forensic Psychology:** (i) Cognitive interview (ii) Lie Detector

4.2. **Application in Forensic Psychology:** (iii) Eyewitness testimony (iv) Face Recognition

4.3. **Application in Computer Science:** Memory Models and Computer Science

4.4. **Application in Computer Science:** Information processing, SDT

4.5. **Application:** Identity Kit, Cognition in cross-cultural perspective

READINGS:

1. Anderson, J. R. (2015). *Cognitive psychology and its implications*. New York: Worth Publishers

2. Best, J. B. (1999). *Cognitive Psychology*. USA: Wadsworth Publishing Co.

3. Borude, R.R. *Bodhanikmanasashastra*. ChhayaPrakashan.

4. Galloti, K. M. (2004). *Cognitive psychology in and out of the laboratory*. USA: Thomson Wadsworth.

5. Horton, D. L. and Turnage, T. W. (1976). *Human learning*. ND: Prentice-Hall

6. Kellogg, R. T. (2007). *Fundamentals of Cognitive Psychology*. N.D. Sage Publications

7. Matlin, M. (1994). *Cognition*. Bangalore: Harcourt Brace Pub.

8. Singh, Shyam & Singh (2008) *Psychoneuroimmunology*, Global Vision, New Delhi

9. Sternberg, R. J. (2007). *Cognitive Psychology*. Australia: Thomson Wadsworth.

10. Solso, R. L. (2004). *Cognitive Psychology (6th ed.)*. Delhi: Pearson Education.

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12. भरत देसाई आणि शोभना अभ्यंकर २००७ (प्रायोगिक मानसशास्त्र आणि संशोधन पद्धती), नरेंद्र प्रकाशन, पुणे.

SEMESTER-II

PAPS-122: PSYCHOMETRICS: APPLICATIONS

Credit -04

Learning Outcomes:

To understand how psychological tests are used for the purpose of assessment, guidance and enhancing the effectiveness of teaching-learning process.

To understand the use and interpretation of various psychological tests used in educational field.

To understand the use of psychological tests are used for better health, adjustment and related counselling.

To understand the use of psychological tests in clinical and organizational settings

Unit-1: Applications of Psychological Testing in Educational Setting (Lecture-12)

- 1.1. Tests of ability: General Aptitude Test Battery (GATB), Fairview Social Skills Scale (FSSS), Torrance test of creative thinking (TTCT), Differential Ability Test (DAT)
- 1.2. Tests of Intelligence: Standard Progressive Matrices (SPM), Wechsler Intelligence Scale for Children (WISC), Social Intelligence Scale (SIS), Emotional Quotient Test (EQT)
- 1.3 Interest Inventory: Strong-Campbell Interest Inventory (SCII),
- 1.4. Creativity Tests: Passi Test of Creativity, Verbal Test of Scientific Creativity
- 1.5. Application- Career Interest Inventory

Unit-2: Applications of Psychological Testing in Counselling and Guidance (Lecture-12)

- 2.1. Child-Rearing Practices: Child-rearing Practices Questionnaire,
- 2.2. Self-concept Scales: Tennessee Self-Concept Scale, Self-Concept Inventory
- 2.3. Adjustment Tests: College adjustment and study skills inventory, Adjustment Scale
- 2.4. Attitude Tests: Brief Criminal Attitude Scale (BCATS), Tobacco Use Questionnaire
- 2.5. Application- Family Environment Scale (FES)

Unit-3: Applications of Psychological Testing in Clinical Setting (Lecture-12)

- 3.1. Tests of Personality-I: Sixteen Personality Factor (16 PF) Questionnaire, Thorndike Dimensions of Temperament, Myers-Briggs Type Indicator (MBTI)
- 3.2. Tests of Personality-II: Structural Clinical Interview, Choice Dilemmas Questionnaire (CDQ), Kundu's Neurotic Personality Inventory (KNPI)
- 3.3. Rosenzweig Picture-Frustration study for children, State-Trait Anger Test, Anxiety Scale
- 3.4. Minnesota Multiphasic Personality Inventory (MMPI), Rorschach and Rotter Incomplete Sentence Test, Millon's Clinical Multiaxial Inventory (MCMI)
- 3.5. Application- TAT

Unit-4: Applications of Psychological Testing in Organisational Setting (Lecture-12)

- 4.1. On the Job: Minnesota Satisfaction Questionnaire, Overall Job Satisfaction Scale, Organizational Commitment Scale, Organizational Effectiveness Scale
- 4.2. Motivation: Intrinsic Job Motivation Scale, Motivation Scale,
- 4.3. Leadership Opinion Questionnaire, Workers Attitude Scale, BIRO-P / FIRO-B
- 4.4. Occupational Stress Index, Interpersonal Trust Scale
- 4.5. HRD Function Questionnaire/ EQ Test

READINGS:

Aiken L.R. (1996) Rating Scales and Checklists: Evaluating Behavior, Personality and Attitudes

Anastasi, A. & Urbina, S. (1997). Psychological testing. N.D.: Pearson Education.

Chadha, N. K. (1996). Theory and practice of psychometry. N. D.: New Age International Ltd.

Cronbach, L. J. 5th ed. (1990). Essentials of psychological testing. New York: Harper Collins Publishers

Freeman, F.S. 3rd ed. (1965). Psychological testing. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd.

- Ghiselli, E. E., Campbell, J. P. & Zedek, S. (1981). Measurement theory for the behavioural sciences. W.H. Freeman.
- Gregory, R.J. (2005). Psychological testing: History, principles and applications. New Delhi: Pearson Education.
- Kaplan, R.M. & Saccuzzo, D.P. (2007). Psychological Testing: Principles, Applications, and Issues. Australia: Thomson Wadsworth.
- Kline, P. (1983). Personality measurement and theory. Hutchinson.
- Murphy, K. R., Davidshofer, R. K. (1988): Psychological testing: Principles and applications. New Jersey: Prentice Hall Inc.
- Nunnally, J.C. (1981). Psychometric theory. ND: Tata McGraw-Hill.

SEMESTER-II

PAPS-123: RESEARCH METHODOLOGY - II (QUALITATIVE METHODS AND MULTIVARIATE ANALYSIS)

Credit -04

Learning Outcomes:

To learn about the philosophical foundations, goals and scope of qualitative methodology.

To develop an understanding about the relationship between paradigms of science and methods of qualitative inquiry.

To understand basic procedures of using qualitative methodology.

To learn about scientific rigour in the use of qualitative methodology.

To make them learn the statistical rigours in multivariate analysis.

1. Introduction to qualitative research tradition and its scope (Lecture-12)

- 1.1. What research problems in psychology require qualitative inquiry?
- 1.2. Basic assumptions, principles and promises of qualitative research.
- 1.3. The critical understanding of experience within socio-historical context.
- 1.4. Brief history and functions of qualitative research.
- 1.5. Introduction to some important methods: Ethnography, grounded theory, narrative inquiry, and phenomenological inquiry.

2. Basic procedures in qualitative inquiry (Lecture-12)

- 2.1. Selecting a problem. Formulating research questions.
- 2.2. Developing semi-structured interview schedule.
- 2.3. Building research relationship.
- 2.4. Generating qualitative data: The role of researcher's reflexivity.
- 2.5. Quality and rigour in qualitative research.

3. Analyzing qualitative data: A reflexive exercise (Lecture-12)

- 3.1. Researcher's reflexivity about his/her experiential and theoretical standpoint.
- 3.2. Empathy and reflexivity in qualitative data analysis.
- 3.3. Types of Coding and memo writing.
- 3.4. Identifying and developing narrative structure.
- 3.5. Theoretical saturation and theoretical sampling.

4. Multivariate Statistical Analysis (Lecture-12)

- 4.1. Multivariate analysis- Introduction.
- 4.2. MANOVA, ANCOVA
- 4.3. Multiple Regression, Factor Analysis
- 4.4. Causal modelling, SEM
- 4.5. How to select and Use the correct computer program for statistical analysis

READINGS:

Charmaz, K. (2004). Premises, principles, and practices in qualitative research:

Revisiting the foundations. *Qualitative Health Research*, 14, 976-993.

Charmaz, K. (2006). *Constructing grounded theory: A practical guide through qualitative analysis*. Thousand Oaks, CA: Sage.

Creswell, J. W., Hanson, W. E., Plano, V. L. C., & Morales, A. (2007). Qualitative research design: Selection and implementation. *The Counseling Psychologist*, 35, 236-264.

Denzin, N. K., & Lincoln, Y. (2005). *Handbook of qualitative research* (3rd ed.).

Thousand Oaks, CA: Sage.

Ellingson, L. L. (1998). —Then you know how I feel: Empathy, identification, and reflexivity in fieldwork. *Qualitative Inquiry*, 4, 492-514.

Howell, D. C. (2002). *Statistical methods for psychology* (5th ed.). Duxbury, California: Thomson Learning.

Frank, A. W. (2000). The standpoint of storyteller. *Qualitative Health Research*, 10, 354-365. Ponterotto, J. G. (2005). Qualitative research in counseling psychology: A primer on research paradigms and philosophy of science. *Journal of Counseling Psychology*, 52, 126-136.

Sampson, E. E. (1993). Identity politics: Challenges to psychology's understanding. *American Psychologist*, 48, 1219-1230.

Smith, J. A., Harre, R., & Langenhove, L. V. (Eds.) (1995). *Rethinking methods in psychology*. London: Sage.

Willig, C., & Stainton-Rogers, W. (Eds.) (2008). *Handbook of qualitative research in psychology*. London: Sage.

SEMESTER-II

PAPSP-124: PSYCHOLOGY PRACTICAL: EXPERIMENTS

Credit -04

Learning Outcomes:

To acquaint the students with:

1. The various areas of experimentation in psychology
2. Skills required in conducting experiments in psychology
3. Applications of experimental design and report writing style

UNIT:1 EXPERIMENTS ON LEARNING (ANY THREE)

1. Problem solving (Hanoi's Tower, Heart & Bow Puzzle, Wiggly Blocks)

2. Method of serial anticipation
3. Conditioning: Verbal or hand withdrawal
4. Retroactive or proactive interference
5. Paired Associate learning
6. Bilateral transfer in Mirror Tracing/maze learning
7. Memory recall (Learning by doing and learning by viewing)

UNIT-2: EXPERIEMENTS ON MEMORY (ANY TWO)

1. Forgetting
2. Short term Memory
3. Effect of Mnemonic strategy on memory
4. The effect of coding on memory
5. Immediate recall and delayed recall
6. Memory for Associated and Un-associated pairs of words
7. Recognition

UNIT-3: EXPERIMENTS ON MOTIVATION AND EMOTION (ANY THREE)

1. Determining aspiration level
2. Knowledge of Result (KoR)
3. Zeigarnik Effect
4. Goal Setting
5. Effect of anxiety on performance
6. Intrinsic motivation and extrinsic motivation

UNIT-5: EXPERIMENTS ON COGNITIVE PROCESS (ANY TWO)

1. Perceptual Defence
2. Concept formation
3. Mental imagery
4. Rational Learning
5. Stroop effect in serial learning
6. Time perception
7. Phi-Phenomenon
8. Measurement of illusion
9. Visio-spatial ability

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