



Meston College of Education

(Autonomous)

M.Phil., (EDUCATION) – SYLLABUS
[Full-Time]

RMES I- RESEARCH METHODOLOGY AND EDUCATIONAL STATISTICS – COURSE I **FIRST SEMESTER**

No. of Credits: 9

No. of Hours: 270

OBJECTIVES:

The student will be able to

- a) understand the meaning and purpose of educational research.
- b) understand the foundations of educational research process.
- c) identify the sources of research problems and variables of the study.
- d) familiarize with different methods and approaches of educational research.
- e) understand the contemporary developments in educational research.
- f) understand the philosophical bases of research.
- g) explain the theory behind statistics.
- h) choose appropriate statistical techniques for the analysis of data collected.
- i) use and interpret the results on analysis.

UNIT: I RESEARCH IN EDUCATION (25 Hrs.)

Meaning, purpose and areas of educational research – Kinds of educational research: Basic, Applied, Action research and its characteristics.

UNIT: II PHILOSOPHICAL BASES OF RESEARCH (40 Hrs.)

Positivistic and Anti-positivistic movements – Phenomenology, Symbolic interactionism – Ethno methodology - Feminist Research.

UNIT: III SCIENTIFIC BASIS OF RESEARCH (40 Hrs.)

Research as a process of acquisition of knowledge- Methods of acquiring knowledge- Older methods – Modern Scientific method – Steps in Scientific methods – Assumption underlying Scientific Method.

UNIT: IV TYPES OF EDUCATIONAL RESEARCH (40 Hrs.)

Descriptive Research – Normative Survey – Longitudinal studies – Cross-sectional studies – Trend studies – Correlational Research – Causal Comparative Research - Case History.

UNIT: V RESEARCH PROBLEMS (60 Hrs.)

Selection and Definition of a problem – Characteristics of good topics – Review of Related Literature – Identifying and Evaluating Sources – Abstracting – Variables – Dependent and Independent – Criteria for selecting a problem – Formulation of Objectives – Statement of Hypotheses – Types of Hypotheses – The Research Proposal.

UNIT: VI DATA PROCESSING, ANALYSIS AND INTERPRETATION (20 Hrs.)

Correlation and Association: Pearson's Product moment coefficient of correlation, biserial, point-biserial, chi square and contingency coefficients- Comparisons, assumptions and their application.

UNIT: VII BIVARIATE, UNIVARIATE AND MULTIVARIATE ANALYSIS (25 Hrs.)

Testing Group Differences: Univariate and Bivariate analysis – Analysis of Variance - Multivariate Analysis: ANCOVA – Multiple correlations - Regression analysis – Cluster analysis – Factor analysis, discriminant analysis – Canonical correlation – Multivariate Analysis of Variance (MANOVA) – Multidimensional scaling.

Note: What is expected is an understanding of the theory behind the Statistics, their uses and Interpretation and not the actual computations. The purposes and the functions of the Statistics and the Methods are to be clearly understood.

SUGGESTED PRACTICALS: (Students have to undertake any **One** of the following activities) **(20 Hrs.)**

- 1) Identifying a problem and writing a research proposal.
- 2) Conducting a case study and writing a report.
- 3) Computation of ANOVA, Chi-square.
- 4) Standardization of a psychological test.
- 5) Preparation of master table by using excel.

REFERENCES:

- 1) Bordens. K.S., & Abbott, B.B. (2006). Research Design and Methods (Sixth Edition). New Delhi: Tata Mc Graw Hill Publishing Co.
- 2) Carter V. Good. (1966). Essentials of Educational Research. New Delhi: Meredith Publishing Company.
- 3) Cohen, Louis et. al. (2000). Research Methods in Education (Fifth Edition). London: Rutledge.
- 4) Denzin, & Norman, K. (1994). Handbook of Qualitative Research. New Delhi: Sage Publications.
- 5) Deobold B. Van Dalen. (1979). Understanding Educational Research – An Introduction. New York: Mc Graw Hill Book Company.
- 6) Gay. L.R., & Peter Airasian. (2000). Educational Research – Competencies for Analysis and Application (Sixth Edition). New Jersey: Prentice Hall Inc.
- 7) Hair, & Fretal, J. (1996). Multivariate Data Analysis (Fifth Edition). New Jersey: Prentice Hall International Inc.
- 8) John. W. Best, & James. V. Kahn. (2006). Research in Education (Fourth Edition). New York: Pearson Prentice Hall.
- 9) Mouly, George, J. (1970). The Science of Educational Research (Second Edition). New York: Van Nostrand Reinhold Company.
- 10) Popham, W.J. (1981). Modern Educational Measurement. Englewood Cliffs: Prentice Hall Inc.
- 11) Radha Mohan, (2010). Research Methods in Education. Hyderabad: Neelkamal Publications.
- 12) Tabachnik, B.G., & Fidell, L.S. (1983). Using Multivariable Statistics. New York: Harper.D.Row.
- 13) Thomas. R. Black. (1999). Doing Quantitative Research in the Social Sciences. New Delhi: Sage Publications.
- 14) William M.K. Trochim. (2007). Research Methods (Second Edition). New Delhi: Bizantia.



Meston College of Education

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M.Phil. (EDUCATION) - SYLLABUS

[Full-Time]

TOCL – TECHNIQUES OF COUNSELLING

FIRST SEMESTER

No. of Credits: 9

No. of Hours: 270

OBJECTIVES:

The student will be able to

- a) explain the psychological and sociological foundations of Guidance and Counselling.
- b) describe various techniques to Guidance and Counselling.
- c) understand the tasks of the counsellor in counselling therapy.
- d) Know the various approaches to counselling.
- e) identify the need for Guidance to the children with special needs.
- f) analyse the role of family, school, community in guidance and counselling.
- g) discuss the different types of therapy/ training.

UNIT: I FOUNDATIONS OF COUNSELLING (40 Hrs.)

(a) Psychological basis: Human behaviour and individual differences – Defense Mechanisms – Maladjustment – Mental health – Integrated personality.

(b) Sociological basis: Social nature of Human beings – Nature of human relationships – Increasing complexity of today's world – Conflict of values.

UNIT: II COUNSELLING TECHNIQUES (20 Hrs.)

Counselling techniques – concept of stress – types of stress – Counsellor and client matching – Coping and Adjustment strategies - Controlling stress – Transactional analysis – Relaxation technique.

UNIT: III COUNSELLING THERAPY (30 Hrs.)

Structured Learning therapy: The tasks of the counsellor in social skill training – Irrational beliefs and problems – Promoting rational thinking – Cognitive behaviour therapy – Desensitization – Assertiveness training.

UNIT: IV APPROACHES TO COUNSELLING (20 Hrs.)

Directive and Authoritarian – Psycho-analytic Behaviouristic – Humanistic – Eclectic – Group Counselling.

UNIT: V EDUCATIONAL COUNSELLING (40 Hrs.)

Children with special needs – Gifted – Physically challenged - Mentally challenged – Emotional and behavioral problems of adolescents. Examination anxiety – Learning difficulties – awareness of learning disabilities. Alcoholism and drug abuse – Truancy among the adolescents – Aids and sexually transmitted diseases.

UNIT: VI MARITAL COUNSELLING AND FAMILY COUNSELLING (40 Hrs.)

Marital problems – socio-economic factors – Finance – social life – Religious and other values – occupational demands.

Counselling of unwed mothers, divorcees and the separated – parents of handicapped and deviant children.

Genetic counselling and its importance – before and after marriage.

Family systems – Nuclear family – Joint family problems.

Child guidance – counselling with parents – child relationship – siblings rivalry - problems – rejection – favouritism – other problems.

UNIT: VII HEALTH COUNSELLING (40 Hrs.)

Psycho-somatic disorders – Aging and its impact on health – Geriatric counselling – Counselling for the rehabilitated.

HIV Counselling

Mental health – Psycho-neurosis – Psychosis – Psycho-therapy.

SUGGESTED PRACTICALS: (Students have to undertake any **Two** of the following activities) **(40 Hrs.)**

- 1) Individuals with psychoneurosis, psychosis and ways of providing psychotherapy– A report.
- 2) Organize a counseling session and submit the report.
- 3) Group Discussions in Educational Counselling.
- 4) Preparation of an inventory.
- 5) Case study report.

REFERENCES:

- 1) Adams, James, F. (1962). Problems in Counselling. New York: Mac Millan Publishers.
- 2) Anastasi, A. (1958). Differential Psychology (3rd Edition). New York: Mac Millan Publishers.
- 3) Asfukel, & Dugland, S. (1957). Guidance and Counselling in the Classroom. Boston: Allyn and Bacan Inc.
- 4) Borders. (1975). Counselling Programmes. London: Sage Publications.
- 5) Dolland, J., & Miller, N.E. (1950). Personality and Psychotherapy. New York: McGraw Hill Publishers.
- 6) Gail King. Counselling Skills for Teachers, Talking Matters. Open University Press. Buckingham – Philadelphia.
- 7) Gonbach, L.J. (1960). Essentials of Psychological Testing (2nd Edition). New York: Harper & Row Publishers.
- 8) Hall, C.S., & Lidsey, G. (1957). Theories of Personality. New York: Wiley & Sons Publishers.
- 9) Jones, J.A. (1979). Principles of Guidance. New York: McGraw Hill International Edition.
- 10) Kochhar, S.K. (1998). Guidance and Counselling. New Delhi: Sterling Publishers.
- 11) Lawshe, C.M. (1957). Principles of Personal Testing. New York: McGraw Hill Publishers.
- 12) Lynda Ali, & Barbara Graham. The Counselling Approach to Career Guidance. Edited by Susan Lendrum. New York: Routledge.
- 13) Merrill, M.A. (1946). Problems of Child Delinquency. New York: American Management Association.
- 14) Pedersen. (1996). Counselling Across Cultures. London: Sage Publications.
- 15) Ferguson, L.W. (1952). Personality Measurement. New York: McGraw Hill.
- 16) Rogers. (1951). Client Centred Therapy. Boston: Houghton Mifflin.
- 17) Shertzer, B., & Strong. (1971). Fundamentals of Guidance. New York: Bogota Mifflin Company.
- 18) Tyler, & Leona, E. (1961). The Work of Counsellor. New York: Appleton Century Crafts.
- 19) Willey, & Strong. (1970). Group Procedures in Guidance. New York: Harper and Brothers.
- 20) Winni Cott, D.W. (1995). Counselling and Therapy. London: Sage Publications.

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M.Phil., (EDUCATION) – SYLLABUS
[Full-Time]

RMES II - RESEARCH METHODOLOGY AND EDUCATIONAL STATISTICS – COURSE II **SECOND SEMESTER**

No. of Credits: 9

No. of Hours: 270

OBJECTIVES:

The student will be able to

- a) understand normative survey method.
- b) understand experimental research.
- c) understand the recent trends in educational research.
- d) understand the different techniques sampling.
- e) acquire the skill in using computer for data analysis.
- f) illustrate simple statistical analysis using computer.
- g) write the research report.

UNIT: I NORMATIVE SURVEY METHOD (15 Hrs.)

Characteristics, purposes and classifications – Use of survey testing – Tests: Test Construction – Steps in Standardization – Achievement Tests – Aptitude Tests.

UNIT: II EXPERIMENTAL RESEARCH (40 Hrs.)

Nature of variables involved in experiments – Independent – Dependent – Intervening and extraneous - Design with and without control – Purpose and methods of control – Factors to be controlled designs with minor partial and rigorous control – Validity of designs – Internal and external validities – Quasi-Experimental design.

UNIT: III RECENT DEVELOPMENTS IN RESEARCH (15 Hrs.)

Educational research recent developments – Internet based research in Education – Geographical Information Systems (GIS), Need Analysis and evidence based research in education.

UNIT: IV COLLECTION OF DATA (40 Hrs.)

Concept of Population and Sample - Probability Sampling – Non-probability sampling. Pilot study: - Standardisation of Test- Reliability and Validity.

UNIT: V TOOLS AND TECHNIQUES OF DATA COLLECTION (60 Hrs.)

Characteristics of a good tool – Types of Research tools: Questionnaire, Observation, Rating Scale, Check List, Attitude Scales, Sociometry – Techniques of data collection: Personal Interview, Telephone Survey, Mail Survey, Internet Survey, Group Administration.

UNIT: VI STATISTICAL PACKAGES (60 Hrs.)

Computer and Data Analysis – Data Base Packages – MS –Excel – Data Entry: Role of Variables – Data Manipulation – Data Transformation – Performing Simple Statistical Analysis - Measures of Central Tendency, Measures of Variability, Percentiles, Correlation, t – test – Statistical Packages – SPSS.

UNIT: VII RESEARCH REPORT (20 Hrs.)

Guidelines and Rules for writing – Format and Style – Sections of Thesis and Dissertation – Mechanics of writing a Research Report –Appendices - Bibliography – Webliography - Oral Presentation.

Note: What is expected is an understanding of the theory behind the Statistics, their uses and Interpretation and not the actual computations. The purposes and the functions of the Statistics and the Methods are to be clearly understood.

SUGGESTED PRACTICALS: (Students have to undertake any **One** of the following activities) **(20 Hrs.)**

- 1) Preparation of Achievement test.
- 2) Writing a research report on selecting a problem.
- 3) Computation of reliability and validity for a questionnaire.
- 4) Report on writing a research synopsis.
- 5) Practicals on measures of central tendency variability, significances of difference correlation by using SPSS.

REFERENCES:

- 15) Clifton F. Conrad & Ronald .C. Serlin. (2006). The Sage Handbook for Research in Education. New Delhi: Sage Publications.
- 16) Gay, L.R., & Peter Airasian. (2000). Educational Research – Competencies for Analysis and Application (Sixth Edition). New Jersey: Prentice Hall Inc.
- 17) Kerlinger, & Fred, N. (1964). Foundations of Behavioral Research: Educational and Psychological Inquiry. New York: Holt and Rinehart and Winston Inc.
- 18) Kothari, C. R. (2007). Research Methodology. Methods and Techniques. New Delhi: New Age International.
- 19) Kulbir Singh, Sidhu. (2009). Methodology of Research in Education. New Delhi: Sterling Publishers.
- 20) Norman K. Denzin, & Yvonne S. Lincoln. (2005). The Sage Handbook of Qualitative Research (Third Edition). New Delhi: Sage Publications.
- 21) Paneer Selvam, R. (2007). Research Methodology. New Delhi: Prentice Hall of India.
- 22) Popham, W.I. (1981). Modern Educational Measurement. Englewood Cliffs: prentice Hall Inc.
- 23) Tabachnik, B.G., & Fidell, L.S. (1983). Using Multivariable Statistics. New York: Harper. Row Publishers.
- 24) Uwe Flick. (1999). An Introduction to Qualitative Research. New Delhi: Sage Publications.
- 25) William M.K. Trochim. (2007). Research Methods (Second Edition). New Delhi: Bizantia.

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