M.Phil - PAPER I

RESEARCH METHODOLOGY & EDUCATIONAL STATISTICS

OBJECTIVES

At the end of the course, the student – teachers will be able to

- to orient students towards research in the field of education.
- to develop in students computational skills in educational statistics.
- to orient students in the application of statistical findings.
- to inculcate in students the skill of construction of tests & tools for data collections.
- to enable the students interpret educational research findings.

UNIT I - BASICS OF RESEARCH

Research Problem – Meaning, Identification and Sources, Criteria for Selection of research problem-, Statement of a Research Problem - Hypotheses for Problem Solving -Construction and Confirmation of Hypothesis- Hypothesis Testing - Null Hypothesis and its Significance - Hypotheses testing.

UNIT II - RESEARCH DESIGNS

Research Designs - Meaning and Purpose of a Research Design, Characteristics of a Good Design. Experimental Research - Designs 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 Validity. Humanistic Research Methods: Case Study Methods - Critical Theory Models -Ethnographic Research Methods - Hermeneutics - Oral History Method.

UNIT III - RESEARCH TOOLS AND SAMPLING TECHNIQUES

Research Tools - Definition and Function. Characteristics of a Good Research Tool. Validity – Types - Face, Content, Construct, Concurrent and Predictive. Reliability – Types – Test - Retest, Split - Half, Parallel Forms and K-R Reliability, Evaluating Reliability. Sensitivity and Feasibility of Research Tools. Standardisation of a Research Tool - Meaning, Scope and Purpose - Steps in Standardization - Item Analysis. Sampling Procedures, Probability and Non Probability Based Effective Sample Size - Sampling Errors.

UNIT IV - MEASUREMENT AND SCALING TECHNIQUES

Measurement In Research - Measurement Scale – Nominal Scale, Ordinal Scale, Ratio Scale, Interval Scale – Techniques of Developing Measurements Tools -Important Scaling Techniques – Methods of Paired Comparisons, Method of Rank Order, Scale Construction Techniques – Thurstone Type Scales and Likert Type Scales.

UNIT V - MULTI-VARIATE ANALYSIS TECHNIQUE

Purpose, Characteristics and application of MANOVA-Classification of MANOVA-Important Multivariate techniques-Multiple Regression-Multiple Discriminate Analysis-Multivariate Analysis of Variance-Canonical correlation analysis-Factor Analysis and methods.

UNIT VI – NON PARAMERTIC TEST

Mann–Whitney U test, The Sign Test, The Wilcoxon signed –Ranks Test, Friedman two-way analysis of variance by ranks, Kolmogorov–Smirnov test.

UNIT VII - COMPUTER AND DATA ANALYSIS

i)Performing Simple Statistical Analyses like Measures of Central Tendency,

Measures of Variability, Percentiles, Correlation, t – Value etc.

ii) About Statistical Packages - SPSS - STATISTICA - OPENSTAT4 - NCSS -

STATPAC – SAS – MINITAB – VISTA – STRATA – R-Statistics, Q-Plusetc.

iii) Review of Packages and their Uses in Educational Research.

UNIT VIII - QUALITATIVE ANALYSIS OF DATA

Data Reduction, Matrix Display Tactics for drawing conclusions confirming Findings, Summarising and Integrating findings.

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M.Phil - PAPER II MANAGEMENT OF EDUCATION

OBJECTIVES

At the end of the course, the subject will be able to

- comprehend the concept and principles of management, difference between managemet and administration.
- understand the various approaches to management theory.
- acquire the requisite knowledge and skill for educational planning and institutional systems, supervision, role of state and centre in educational planning.
- understand the functions of leadership in relation to motivation and participation of individuals in organizational and decisional changes.
- acquire the ability to apply the modern management techniques in the frame work of existing educational system.
- acquire the ability to optimize student participation in curricular and co curricular activities.
- acquire the ability to maintain the morale and motivation of the staff to minimize and resolve conflicts among the school personnel.
- acquire the ability to manage the institution towards the attainment of the functional objectives.

UNIT I – CONCEPT OF EDUCATIONAL MANAGEMENT

Educational Management: Definition, Concept, Meaning, Aims, Functions, Principles and Type. The need to Modernize Education Administration Taylorism: Practical Measures for Democratic Educational Management, Characteristics of Successful Educational Management. Management and Decision Making - Difference between Management and Administration.

UNIT II – APPROACHES TO MANAGEMENT THEORY

Major Approaches to Management Theory: Behavioral Approach, McGregor's Theory X and Theory Y, Quantitative Approach. Contemporary Management Perspectives: Systems Approach, the Contingency Approach, Social System Approach, The Computer Approach. Modern Trends in Education Management.

UNIT III – EDUCATIONAL PLANNING AND PROCESS

Educational Planning: Concept, a Brief Historical Review, Basic Approaches, Budgeting and Control. Educational Supervision. Institutional Planning: Objectives, Need and Basic Characteristics, Steps Involved in the Preparation, Implementation and Evaluation; Educational Administration in the Central Government: Role of MHRD - Statutory/Autonomous Organisations, Center-State Relations in Management of Education in India.

UNIT IV – DECISION MAKING AND RESOURCE MANAGEMENT

Decision Making Process: Decision Making and Problem Solving, Problems in Decision Making. Educational Manager as a Change Agent - Teacher as a Leader -Management as Communication System. Resource Management: Human, Material, Financial and Time. Principles and Procedures of Acquiring, Organising and Utilizing Resources.

UNIT V – MANAGEMENT IN EDUCATIONAL SETTINGS

Management of Personnel: Teaching and Non-Teaching in Organization. Institutional Climate: Group Dynamics, Management of Students, Admission, Participation in Curricular and Co-Curricular Activities, Management of Student Conflicts, Disciplinary Problems, Management of Learning Process. Time Table -Classroom Management - Classroom Climate, Management of Examination -Organisational Commitment - Academic Freedom.

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M.Phil - PAPER III INTERNAL PAPER

The Syllabus has to be framed internal with the research topic selected by the M.Phil students with the help of the respective guide. The syllabus should have five units carefully incorporating the variables selected from the Research study.