SEMESTER - I

MED 104 Introduction to research method (Credit 4)

Unit – I Concept of Educational Research & Review of related literature (Credit 4)

- 1.1 Meaning, nature, need, importance and scope of educational research.
- 1.2 Scientific Inquiry and Theory Development some emerging trends in research.
- 1.3 Areas of educational research and different sources of generating knowledge.
- 1.4 Interdisciplinary in Educational Research.
- 1.5 Purpose and need at different stage of research.
- 1.6 Sources of literature review.
- 1.7 Recording of various references notes taking etc.
- 1.8 Online/ Offline references.

Unit – II Research Proposal & Types and Methods of Educational Research (Credit 1)

- 2.1 Conceptual Framework
- 2.2 Selection & finalization of an educational research problem.
- 2.3 Operational and functional terms.
- 2.4 Review of related literature
- 2.5 Objectives, assumptions, hypothesis
- 2.6 Selection of method, sample and tools of research
- 2.7 Data analysis method
- 2.8 Time schedule, financial budget
- 2.9 Types of educational research Fundamental, Applied, Action research.

2.10 Methods of Educational Research.

- (i) Historical Research need and significance, types, sources and collection of data; establishing validity ad interpretation, Ex-Post Facto Research.
- (ii) Descriptive Research Surveys, Case study, developmental correlation studies nature and use, steps and interpretation, Ex-Post Facto Research.
- (iii) Experimental Research need and significance nature and steps- validity; internal and external, use and limitation of different types of experimental designs: Pre-experimental- role of control variables.
- (iv) Naturalistic inquiry- situation-related integrative, phenomenological, experience based, subjective qualitative.
- (v) Product Research.
- (vi) Qualitative Research- Ethonomethodical

Unit – III Research problems, Variables, Hypothesis, Population and Sampling (Credit 1)

- 3.1 Source, selection and Criteria of research problem- based on experience, discussion.

 Literature Scope and delimitations, statement of the problem indifferent forms.
- 3.2 Concept, nature, characteristics and types of variables-inter relationship among different variables.
- 3.3 Concept, importance, characteristics and forms of hypothesis- formulation and testing.
- 3.4 Assumption Concept
- 3.5 Population Concept
- 3.6 Sampling Concept and Need, characteristic of good sample.
- 3.7 Sampling Methods
- (i) Probability Sampling: Simple Random sampling, use of random number table, Cluster, stratified and multistage sampling.
- (ii) Non-Probability Sampling: Quota, judgment and purposive.
- 3.8 Errors in sampling.

Unit – IV Tools and Techniques of Educational Research

(Credit

- 1)
- 4.1 Observation.
- 4.2 Interview Schedule.
- 4.3 Questionnaire.
- 4.4 Test-achievement, intelligence, aptitude, and personality.
- 4.5 Opinionnaire- attitude scale, rating scale, check list.
- 4.6 e-tools e-mail, fax website, Internet, teleconference.
- 4.7 Qualities of a good measuring tool and standardization procedure.
- 4.8 Preparation of tools.
- 4.9 Implementation of tools

Practical Work:

Study of recent research reviews about the unit wise course content.