

UNIVERSITY OF MYSORE
Ph.D Entrance Examination Syllabus
EDUCATION

UNIT I: Philosophy of Education

Relationship between Education and Philosophy

1. Conceptual analysis in education –role of methodology, analysis of the concept of education.
2. Epistemological bases of curriculum – logical relationship between objectives, knowledge and methods of teaching.
3. Value education - need and different approaches

UNIT II: Sociology of Education

1. Education as a social system.
2. Socialization, culture and personality.
3. Education and social change, democracy and economic order.
4. Education and modernization; role of Educational technology.
5. Education and community with special reference to Indian Society

UNIT III: Educational Psychology

1. Growth and Development – Principles, determining factors – different dimensions; contributions of Piaget, Bruner, Ericson, Kohlberg, Chomsky.
2. Learning types – Concepts and Principles relation to major theories of learning.
3. Major concepts and Principles and factors in group dynamics, motivation, remembering and forgetting as related to learning process

UNIT IV: Intelligence and Personality

1. Theories of intelligence, types of intelligence test; Emotional intelligence, Multiple Intelligence, creativity (Verbal and Non – Verbal)
2. Personality and Mental Health – Concepts, major theories of personality; Personality assessment; adjustment and mental health.

UNIT V: ICT in Education:

- Educational Technology as systems approach to education.
 - Systems approach in educational technology and its characteristics.
 - Components of educational technology, software, hardware Multi - media approach in Educational Technology.
1. Modalities of Teaching – difference between teaching and instruction, conditioning and training.
 2. Programmed Instruction (origin, types, linear and branching, development of programmed instruction material – linear / branching model, teaching machines, computer assisted instruction.
 3. Concept of communication, Principles. Modes and Barriers of communication, Classroom communication (interaction verbal and non - verbal).

UNIT VII: Teacher Education:

1. Objectives of Teacher Education at different levels – Primary, Secondary and tertiary; Pre - Service and in - service teacher education (Need and Objectives).
2. Teacher Competencies – Communication, organization, instruction and evaluation; National Curriculum Framework for teacher education; recent trends in teacher Education.
3. Issues and Challenges in teacher education – Quality assurance in teacher education, recent trends in teacher education.

UNIT VII: Methodology of Educational Research

Characteristics of educational research

1. Planning the research study; review of the literature – purpose and references, using database and internet; formulation of objectives and hypotheses (different types), variables – types and inter-relationship, preparation of research proposal.
2. Research Paradigms in education: Quantitative, qualitative and mixed – Characteristics and types Quantitative methods – experimental (True experimental designs and quasi - experimental designs), internal and external validity of results in experimental research; descriptive (survey, casual comparative, correlational programme evaluation) qualitative methods – Ethnography, phenomenology, case study, historical research, mixed research – strengths and weakness Characteristics of educational research.

UNIT VIII: Sampling and Tools/ Techniques of data collection

1. Sampling :- Representative and biased sample; Random sampling techniques - simple, systematic, stratified, cluster sampling and multi - stage sampling; Non - Random Sampling, technique - convenience sampling, proportionate sampling, Quota sampling and snow - ball sampling; sampling in qualitative research.
2. Tools / Techniques data collection :- Characteristic of a good research tool, tests inventories and scales - Types - construction and Uses, Questionnaire - Forms, Principles and Construction - Administration of Questionnaires' - Interview - Types Characteristics and Guidelines for conducting Interviews - Observation - Types, Rating Scale, Check List, Schedules, Focus group discussion.

UNIT IX: Analysis of data I

1. Data types - Nominal, ordinal, interval and ratio data levels individual and group
2. Description and Comparison of Groups

Measures of Central Tendency

- Dispersion, Characteristics and Uses

Normal distribution(NPC)-characterstics

- Deviation from normality and underline causes

Correlation - Types (Spearman, Pearson, Biserial, Pointbiserial, Tetrachoric, partial and multiple) regression analysis

UNIT X Analysis of Data II

Testing of hypotheses; levels of significance, types of error, sampling distribution, sampling error, standard error: parametric test- t test, F test, ANOVA , ANCOVA- concepts ,assumption and uses

Non -Parametric tests- chiscure, sign test, median test

Analysis of Qualitative data-content analysis ,transcription

