

Dr. Babasaheb Ambedkar Marathwada University, Chhtrapati Sambhajinagar

Department of Education

Ph.D. Entrance Exam - Subject : Education syllabus for paper II-

Unit1. Research and Statistics in Education

a)- Educational Research

Scientific Thinking and Research, Concept and characteristics of Research in Education, Philosophical, Psychological and Sociological Orientation in Educational Research, Types of Educational Research-Fundamental, Applied and Action Research, Qualitative and Quantitative Research, Interdisciplinary Educational Research and its implications.

b)- **Methods of Educational Research** - Historical, Descriptive-Survey, Ex post facto, Field study, Experimental, Case Study, Developmental and Genetic, Ethnographic

c) - **Population and Sample-Concept--** Sample- concept, sampling unit, types of sampling, sampling frame, sample size, representative

d)- **Tools for Data Collection--** Tests, inventories and scales: types, construction and uses, identifying a tool using reliability and validity information, Questionnaire, Interview, Observation types, characteristics, application ,use of the check list and schedules,

e)- **Statistics in Educational Research -- Quantitative & Qualitative Data, Descriptive & Inferential Data, Primary & Secondary Data, Data-Nominal, Ordinal, Interval and Ratio Scale, Measures of Central Tendency--Mean, Median and Mode, Measures of Variability--Range, Quartile Deviation, Standard Deviation, Measures of Relationship--Concepts of Correlation--Rank difference method, Product Moment Method, Normal Probability Curve and its applications, Hypothesis - Meaning, types, Parametric Tests-test for independent and correlated samples, Concept of Analysis of Variance, Non-Parametric Tests: Chi-square, One Tailed and two Tailed Tests**

f) - Preparation of Research Problem, Research proposal & Report, evaluation

Unit-2 Philosophical & Sociological Foundations of Education a)- Philosophy-meaning, need, scope and functions--Philosophy of Education-meaning &scope, Metaphysics (related to Nature, Man & Society)and Education, Epistemology and Education: Knowledge and methods of acquiring knowledge with special reference to Dialectical Approach, Scientific Inquiry and Yoga, Axiology and Education: Contribution of Jainism, Buddhism and Islam to value Education b- **Impact of Eastern and Western Schools of Philosophy on Education- With special reference to Ontology, Epistemology and Axiology, Aims, curriculum, teaching learning pedagogy, class/school Environment, assessment, role of teachers, discipline and value formation**

a-Eastern-Schools-of-Philosophy-Upanishad-Jain-,Buddhist,-Islam.

b-Western schools of Philosophy, Re-constructionism, Perennialism & Essentialism, Existentialism,Marxism

Educational Thinkers – Ravindranath Tagore, Dr. B.R Ambedkar, Mahatma Gandhi, Plato,


Department of Educa.
Dr Babasahed Ambedkar
Marathwada University
Aurangabad

Mahatma-Phule-and-John-Dewey

d) Concept, scope and nature of sociology of education, Difference between educational sociology and sociology of education, Social stratification and its factors (political, economical and cultural)

Social Change: factors and role of education, Equality in Education , Inequality in Indian social system, Education Democracy, Constitutional Provisions for education

e)- Modern Views in Education-Continues education- need, importance and objectives, Distance education- concept and programmes in India, Education for disadvantaged- need and objectives, Education for oppressed- the views of Powlow Freire, De-schooling society

Unit-3 : Psychological Foundation of Education --a- I Learner and Learning process a-

Definition of learner and Learning, Nature of Learning, Levels & types of Learning, Co-operative Learning- concept & application, Benefits of cooperative learning for students b- **Learner and Learning process--**Definition of learner and Learning, Nature of Learning, Levels & types of Learning, Co-operative Learning- concept & application, Benefits of cooperative learning for students

c- **Brain Based Learning** - Concept and Principles of Brain Based Learning., Functions of Right and Left Brain, Learning Style, Educational Application of Brain based Learning

Unit-4 Education Evaluation: Management and Administration—a Educational Evaluation and Examination Reforms -Meaning and concept of Educational Measurement, Educational Evaluation - Concept, process, principles and Types, Relationship among measurement and evaluation , Taxonomies of educational objectives. -Bloom's taxonomy of Cognitive domain. , Krathol's taxonomy of Affective domain, Dave's taxonomy of psychomotor domain

B-Examination reforms – Grading and Credit System, Semester System, Question Bank. , Continuous and comprehensive Internal Assessment, Moderation and revaluation. Online Examination, Open book exam

c **Educational Planning and Process:**-Educational Planning: Concept, Nature, Need and Importance, Types of Educational Planning, Process of Educational Planning - District Level Including Micro level planning exercise, Institutional Planning. Different Approaches to Educational Planning, Economic and Social, Steps in Preparation of Plans, Implementing, Evaluating and Readjusting a Plan.

d- **Educational Leadership**--Meaning and Nature of Educational Leadership,, Theories of Leadership, Styles of Leadership: Autocratic, Democratic & Laissez Faire, Quality of Educational Leadership



HCU
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Marathwada University,
Aurangabad

Unit-5 Teacher education & ICT in Education

- a- Introduction to Teacher Education --a Difference between teacher training and teacher education, Teacher education: meaning, nature and importance, Aims and general objectives of teacher education
- b)-**Teacher Education in India** --National policy on education 1986 , Report of Yashpal Committee — 1993 , National Knowledge commission-2005 ,New Education policy 2020
- c)-**Agencies of Teacher Education** - Structure, role and responsibilities of various agencies in Quality Teacher Education, Local/ District level agencies- DIECPD (DIET), CTE, IASE, University etc. , State level agencies- SIE, SCERT & its Regional centers, SBTE, STET etc National level agencies- NCTE, NCERT, UGC, International level agency- UNESCO
- d- **ICT in Education**_ Concept, Need and Importance of ICT in Education. , Application of ICT in education. , Teaching learning, Research, publication, Administration ,Evaluation , Challenges and barriers to integration of ICT in Indian schools, Safe use of ICT – anti- virus, Legal and Ethical Issues, awareness regarding cyber acts., Qualities of ICT teacher – skill & qualities
- E-**New Teaching Learning Strategies**--E-Learning (online, offline)--concept, features and educational application , Co-operative and Collaborative Learning --concept, features and educational application , Project based Learning --concept, features and educational application , Communication Tools - Mobile, e-mail, chat Online, Conferencing, Blog, Wiki, Internet forum, News Groups, Various educational mobile apps, e-group, Social Networking as an effective Communication Tool.
- F- New Trends in ICT -Virtual Classroom - concept, elements, advantages and limitations , Smart class room – concept, elements, advantages and limitations , Edusat - concept, elements, advantages and limitations ; Online Learning Resources: e- Library, Websites, Apps, and MOOCS, Flipped classroom: concept, elements & limitation
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Head
Department of Education
Dr Babasahed Ambedkar
Marathwada University
Aurangabad