

Course Code	Course Name	Credits
26ED005	MEASUREMENT AND EVALUATION IN EDUCATION	04

Course Objectives

The course aims to,

- ✓ Understand the meaning, nature, and scope of educational measurement and evaluation.
- ✓ Explain the significance of measurement and evaluation in the teaching-learning process.
- ✓ Identify characteristics of a good measuring instrument (validity, reliability, objectivity).
- ✓ Differentiate between norm-referenced and criterion-referenced tests.
- ✓ Analyze the advantages and limitations of assessment practices.
- ✓ Identify different types of achievement tests (essay, objective, oral, performance).
- ✓ Explore the role of assessment as per NEP 2020.

Learning Outcomes

After the completion of the course, the Learner will be able to

- ❖ Explain concepts, nature, and differences between educational measurement and evaluation.
- ❖ Apply principles of measurement to select or design appropriate tools and techniques.
- ❖ Analyze different types of assessment and measurement scales in educational contexts.
- ❖ Design basic test items and evaluate standardized and achievement tests.
- ❖ Evaluate emerging trends in assessment and propose improvements aligned with contemporary educational needs.

Unit 1 - Educational Measurement and Evaluation (12 hours)

Meaning, and scope of Educational Measurement,-Meaning, Nature and scope of Educational Evaluation-Difference between measurement and evaluation-Significance of measurement and evaluation in education.

Unit 2 – Tools of Measurement and Evaluation (12 hours)

Characteristics of a good measuring instrument; Validity, Reliability and Objectivity-Types of scales in educational measurement; Nominal scale, Ordinal scale, interval scale and ratio scale-Norm referenced and Criterion referenced test.

Unit 3 - Assessment (12 hours)

Concept of assessment: meaning, definition & nature-Types of assessment: formative and summative assessment, external and internal assessment-Advantages and disadvantages of assessment.

Unit 4 – Standardized Test and Achievement Test (12 hours)

Characteristics and uses of a standardized test-Principles for construction of a standardized test-Achievement tests and its uses-Types of achievement test; Essay type tests, Objective tests, Oral tests and Performance Tests.

Unit 5 - New trends in evaluation (as per NEP 2020) (12 hours)

Continuous and comprehensive Evaluation (CCE)-Competency-based assessment-Portfolio assessment-Use of technology in evaluation.

Reference Books:

1. Educational Research – L. R. Gay, Geoffrey E. Mills & Peter Airasian
2. Research Design: Qualitative, Quantitative, and Mixed Methods Approaches – John W. Creswell
3. Research Methodology – C. R. Kothari
4. Research in Education – John W. Best & James V. Kahn
5. Statistics in Psychology and Education – Henry E. Garrett
6. Qualitative Inquiry and Research Design – John W. Creswell
7. Publication Manual of the American Psychological Association – American Psychological Association 7th Edition

Alignment with NEP – 2020

The proposed course **Measurement and Evaluation in Education (26ED005)** is designed in alignment with the transformative vision of the National Education Policy 2020, which emphasizes holistic, multidisciplinary, skill-based, and research-driven education. Overall, the course reflects a modern, outcome-based, and NEP-compliant curriculum, suitable for NAAC accreditation and academic excellence frameworks.

1. Develops comprehensive understanding of learner assessment beyond marks, focusing on overall development.
2. Develops skills in designing valid, reliable, and objective assessment tools.
3. Supports formative assessment and continuous feedback for learner improvement.
4. Prepares learners to design assessments aligned with national and global benchmarks
5. Encourages evaluation and interpretation of test results effectively
6. Enhances use of online assessment tools and digital evaluation methods
7. Encourages fair grading practices and reduces bias in marking systems

COs and Bloom's Taxonomy Level (BTL) Mapping for 26ED005

Course Outcomes	On successful completion of the course, the students will be able to	BTL
CO1	Explain concepts, nature, and differences between educational measurement and evaluation.	K1 & K 2
CO2	Apply principles of measurement to select or design appropriate tools and techniques.	K 3
CO3	Analyze different types of assessment and measurement scales in educational contexts.	K 4
CO4	Evaluate emerging trends in assessment and propose improvements aligned with contemporary educational needs.	K 5
CO5	Design basic test items and evaluate standardized and achievement tests	K 6

Bloom's Taxonomy Level (BTL):- K1 and K2 – remembering and understanding, K3- Applying, K4 – Analyse, K5- Evaluate and K6- Create

Relationship Matrix

Course Outcomes	Programme Outcomes (POs)								Programme Specific Outcomes (PSOs)							Mean Score of COs
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	
CO1	3	2	1	1	1	1	1	1	3	2	1	1	1	3	1	1.5
CO2	3	2	3	1	2	1	2	1	3	2	3	1	2	3	1	2.0
CO3	3	3	2	1	1	1	2	1	3	3	2	1	1	3	1	1.9
CO4	3	3	2	2	2	3	2	1	3	3	2	2	2	3	2	2.3
CO5	3	3	3	2	2	2	1	2	3	3	3	2	2	3	2	2.4
Total																2.0

Mean Score: 3- High, 2- Medium/Moderate, 1-Low