

Course Code EDEC 226
SEMESTER-II
Mathematics Content & Method

Objectives: Student Teachers...

1. Understand aims ,objectives, meaning content & teaching of mathematics
2. Development of mathematics.
3. Understand the teaching methods, approaches and techniques of teaching mathematics.
4. Formulate instructional objectives in terms of behavioral out comes to prepare lesson plan & developing low cost teaching aids & their utilities.
5. Construct suitable tools for evaluation and understand the concept and use of diagnostic and remedial measures in mathematics.
6. Understand use of mathematics for various recreational activities.
7. Understand the professional efficiency required in mathematics teachers & importance of mathematics laboratory & mathematics club, mathematics text book & its evaluation.
8. Develop attitude & interest in teaching and learning of mathematics.

Unit:1 Content

Std- 9, Chapter no : All chapters from Std 9th Textbook of Semester
2
Std-10 Chapter no : 5, 11, 12, 13, 14, 15, 16, 17, 18

Unit:2 Teaching aids and Non-formal Approaches of Mathematics Teaching

2. 1. Developing and preparing low cost improvised teaching aids and its importance.
2. 2. Developing audio visual and digitalized teaching aids, slides, etc., using computer.
2. 3. Skills of using blackboard, models, chart, T.V, film etc for teaching mathematics.
2. 4. Teaching mathematics through recreational activities like Puzzle, quiz, magic square, question –box, etc.

Unit:3 Assessment, Evaluation and Co-Curricular activities for Mathematics

3. 1. Different Types of Evaluation tools in mathematics
3. 2. Ideal question paper based on blue print
3. 3. Concept, importance and preparation of diagnostic testing & remedial work
3. 4. Differences between diagnostic test and achievement test.
3. 5. Importance of text- book, characteristics of good text book, evaluation of text book
3. 6. Importance of surfing internet for e-literature in mathematics.
3. 7. Professional efficiency of effective mathematics teachers.
3. 8. Objective, activities and importance of mathematics lab and mathematics club.

Unit:4 Field Work (Any one of the following)

1. Construction and Planning of Mathematics Club.
2. Evaluation (External and Internal) of Text Book.
3. Collection of Mathematics' E-literature through Internet.
4. Visit/ participation in Mathematics Exhibition.
5. Planning and implementation of teaching mathematics through recreational activities.
6. Any other Mathematics related activities