Pedagogy of Mathematics

Objectives: After studying this course the teacher trainees will be able to:

a) Understand the language and symbolism of mathematics as a discipline.
b) Appreciate the significance of Postulates and Axioms in teaching of Mathematics.
c) Understand and applying different methods of teaching mathematics in the classroom.
d) Select and organise the content, plan instruction and ensure effective delivery.

UNIT-1

1. Need and significance of teaching mathematics and its place in School Curriculum.
2. Importance and scope of learning Mathematics in day today life.
3. Objectives of teaching mathematics at secondary level in schools.
4. Educational values of mathematics learning.
5. Mathematics Club and recreational activities.

Unit-2 Methods of Teaching Mathematics

1. Inductive and deductive Method
3. Problem Solving Method
4. Project Method
5. Heuristic Method

Unit-3 Lesson Planning/ content planning

1. Selection and Organisation of content
2. Planning instructions in Mathematics
3. Stating Instructional and Behavioural objectives
4. Preparation and use of Teaching Aids in Mathematics
5. Lesson planning/ Unit planning

Unit-4 Techniques of teaching Mathematics

1. Brain Storming
2. Drill and Practice
3. Laboratory
4. Group Discussion
5. Play-way technique

CBCS/CFSD (03-03-16)
Books Recommended:


