

DEPARTMENT OF EDUCATION
ALIGARH MUSLIM UNIVERSITY, ALIGARH

ED-805

D.T. (I Semester)

(4 Credits)

Theory: 75

Sessional: 25

TEACHING SUBJECT– II
(MATHEMATICS)

Objectives: After studying this course, the teacher trainee (Primary classes) will be able to

- Understand mathematical concepts and its educational values.
- Gain knowledge about the importance and use of teaching mathematics in their practical life.
- Understand and apply different methods of teaching mathematics in classroom and fields.
- Understand effective lesson planning.

Unit – I: Introduction

1. Meaning, definition and scope of Mathematics.
2. Educational values of mathematics.
3. Nature, need and importance of teaching mathematics at Primary level in school.
4. Practical application of Mathematics in daily life.

Unit – II: Aims and Objectives of teaching Mathematics

1. Aims and Objectives of teaching mathematics at Primary Level.
2. Relationship of mathematics with other school subjects.
3. Principles of Curriculum Construction of mathematics.
4. Importance of students' activities in mathematics.

Unit-III: Methods of teaching Mathematics at Primary Level

1. Inductive and deductive method.
2. Analysis and Synthesis method.
3. Question & Answer method.
4. Project Method.

Unit – IV: Lesson Planning

1. Micro teaching in mathematics.
2. Macro teaching in mathematics
3. Lesson Planning.
4. Unit Planning.

Books Recommended :

- Goodfrey, C. and Siddoms, A.W. – The teaching of Elementary Mathematics, Cambridge University Press, (1993)
- Swenson, E.F. (1966), Teaching Arithmetic to children, Macmillon Company, New York.
- Lowell, K. And Smith, C.H.J. (1953). The teaching of Arithmetics in Primary Schoo, University of London Press, Ltd.
- Howard, C.F. and Dumar, E. (1966). Teaching contemporary Mathematics in the Elementary Schoo, Harper and Row Publishers, New York.
- Hisab Ki Tadrees, (1995). Akhtar Husain Akhtar, Anjuman Islam High School Sardar Patel Road Studio , Ahmadabad 380001.