

Curriculum plan (Odd Semester 2025-26)

Teacher Name: Dr. Anjali Bansal

Paper name: Introductory Mathematical Methods for Economics

Course: BA Eco Hons, 1st Sem. DSC

Paper shared with: NA

Unit to be taken	Month wise schedule to be followed	Tests/Assignm Revision/Presenta
Introduction and Unit I, II (Chapters 1 to 3) Preliminaries: Logic and proof techniques; sets and set operations; relations; functions and their properties; number systems. Graphs, elementary types of functions. Chapter 1 Chapter 2, 3	August Week 1, 2 Week 3,4	...
Unit II (Chapters 3 to 6) Functions of one real variable Graphs; elementary types of functions; limits, differentiation Chapter 3,4 Chapter 5, 6	September Week 1,2 Week 3, 4	Assignment 1 Test 1
Unit II (Chapters 6 to 8) Sequences and series: Continuous functions: Differentiable functions: Chapter 6, 7 Chapter 8	October Week 1, 2 Week 3 Week 4	Assignment 2 Test 2 Diwali Break
Unit II, III (Chapter 8, 9) Single-variable optimization, convex functions, local and global optima, and economic applications Chapter 8 Chapter 9 Revision	November Week 1, Week 2, 3, 4 Week 4	Assignment 3 Test 3

Reference:

Sydsaeter, K., Hammond, P. (2002). Mathematics for economic analysis. Pearson Educational.

Internal Assessment (IA): 30 Marks

- Two class tests out of 3 (12 marks each), and
- 6 marks for attendance

Continuous Assessment (CA): 40 Marks

- Periodic assignments including problem solving, 35 marks towards the overall assessment
- 5 marks for attendance