

Curriculum plan (Odd Semester 2020-21)

Teacher Name: Dr. Anjali Bansal

Paper name: Mathematical Methods for Economics 1

Class type: BA Eco Hons, 1st Sem. Core paper

Paper shared with: NA

Unit to be taken	Month wise schedule to be followed	Tests/Assignm Revision/Presenta
Introduction and Unit 1 Preliminaries Logic and proof techniques; sets and set operations; relations; functions and their properties; number systems. Chapter 1	November Week 4	...
Unit II Functions of one real variable Graphs; elementary types of functions; sequences and series: Continuous functions: Differentiable functions: Chapter 2-8 Chapter 2,3 Chapter 3,4 Chapter 5	December Week 1 Week 2, 3 Week 3, 4	Assignment 1
Unit II (remaining part) and Unit III Single-variable optimization, convex functions, local and global optima, and economic applications. Chapter 9 Unit II Chapter 6 Unit II Chapter 7 Unit II Chapter 8 Unit III Chapter 9	January Week 1 Week 2 Week 3 Week 4	Assignment 2
Unit IV Linear algebra matrix representations and elementary operations; systems of linear equations, determinants. Chapter 12-14 Chapter 12 Chapter 13 Chapter 14	February Week 1, 2 Week 2, 3 Week 4	Assignment 3
Revision	March Week 1, 2	Assignment 4 Revision

Reference

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