**Curriculum plan (Even Semester 2021-22)**

**Teacher Name: Dr. Anjali Bansal**

**Paper name: Mathematical Methods for Economics 1I**

**Class type: BA Eco Hons, 2nd Sem. Core paper**

**Paper shared with: NA**

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| **Unit to be taken** | **Month wise schedule to be followed** | **Tests/Assignments/ Revision/Presentations etc** |
| Unit 1V  Integration, differential equations, and difference equations. Chapter 10, 20.1 and 21  Chapter 10  Chapter 20.1  Chapter 21 | April  Week 2  Week 3  Week 3, 4 | ... |
| Unit I  Functions of several real variables: Geometric representations, differentiable functions, application to comparative statics problems, homogeneous and homothetic functions: Chapter 15, 16  Chapter 15  Chapter 16 | May  Week 1,2  Week 3, 4 | Test 1 |
| Unit I (remaining part), Unit II  Multivariate optimization, convex sets, unconstrained optimization, envelope theorem and applications Chapter 17, 18  Chapter 16 (unit 1)  Chapter 17 | June  Week 1  Week 2,3, 4 | Test 2 |
| Unit II (remaining part) and unit III  Linear programming, economic interpretation, Chapter 19  Chapter 18 (unit II)  Chapter 19  Revision | July  Week 1, 2  Week 3  Week 4 | Test 3  Revision |

Reference

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