

Indraprastha College for women, Univ. of Delhi

WORK PLAN (January, 2023-May, 2023)

Course Name: B.Sc. (Hons.) Mathematics

Semester: IV

Paper Code: 32353401

Paper Name: Computer Algebra Systems and Related Software: SEC-1

Faculty: Ms. NIKITA MITTAL

Week	Theme/ Curriculum
1	Working with matrices.
2	Working with matrices.
3	Working with matrices.
4	Performing Gauss elimination.
5	Performing Gauss elimination.
6	Performing Gauss elimination.
7	Operations on matrices: Transpose, Determinant, Inverse.
8	Operations on matrices: Transpose, Determinant, Inverse.
9	Operations on matrices: Transpose, Determinant, Inverse.
10	Minors and cofactors.
11	Minors and cofactors.
12	Minors and cofactors.
13	Working with large matrices.
14	Working with large matrices.
15	Working with large matrices.
16	Revision/ Mock Test.
...	

Readings/Reference Texts:

1. Bindner, Donald & Erickson, Martin. (2011). A Student's Guide to the Study, Practice, and Tools of Modern Mathematics. CRC Press, Taylor & Francis Group, LLC.

2. Torrence, Bruce F., & Torrence, Eve A. (2009). The Student's Introduction to

Mathematica® : A Handbook for Precalculus, Calculus, and Linear Algebra (2nd ed.). Cambridge University Press.

3. Gardener, M. (2012). Beginning R: The Statistical Programming Language, Wiley. Additional Reading: i. Verzani, John (2014). Using R for Introductory Statistics (2nd ed.). CRC Press, Taylor & Francis Group.