LORETO COLLEGE
Department of Mathematics

TIME PLAN 2022-2023

Name of the teacher :   Dr Satyabrota Kundu
Initials   :   SK
Teaching Objectives :

- To impart comprehensive knowledge in theoretical and empirical perspectives on the core mathematical issues.
- To indoctrinate the fundamental mathematical tools required for empirical appraisal of various mathematical problems.
- To give exposure to analytical and logical matters subsumed in mathematical theories.

4th Semester Topic-wise Time Plan

Topics	Hours allotted	Topics (as per curriculum)	Teaching method	Learning outcome (output)	Assessment
Algebra II	10	1. Group Theory. 2. Rings, Fields. 3. Rank of a matrix. 4. Vector Space over field F. 5. Real Quadratic Form. 6. Characteristic Equation of a matrix.	Class lecture and problem solving sessions. Revisions and doubt clearing slots.	Achieve a fervent understanding of advanced algebra.	Class test and home assignments.
Computer Science & Programming	25	1. Computer Science and Programming. 2. PositionalNumber System. 3. Programming Language. 4. Algorithms and Flow Charts.	Class lecture and problem solving sessions. Revisions and doubt clearing slots.	Gather theoretical insights of the fundamental calculus.	Class test and home assignments.

| Probability & Statistics | 25 | 1. Elements of Probability Theory.
2. Theoretical Probability Distribution Discrete and Continuous (p.m.f., p.d.f.).
3. Elements of Statistical Methods, Sampling Theory, Bivariate Frequency Distribution. | Class lecture and problem solving sessions. Revisions and doubt clearing slots. | Getting skilled in problem solving techniques. | Class test and home assignments. |