Adv.M.N.Deshmukh Art's Science & Commerce College, Rajur

Annual Planning for the Year 2022-2023

F. Y. BSc. Mathematics Paper-I

Sr.	Month	Total	Name of the Topic
No.		Lectur	
	Term-I		Algebra
1	June 2022	08	 Ch-1 Sets Relation and Function. 1.1 Sets, Relation, Equivalence relation, Equivalence class and Partition set. 1.2 Function, basic terminology, Types of function, Inverse function, composition function.
2	Jully 2022	10	Ch.2 Divisibility theory in the Integer. 2.1 Mathematical Induction, Well ordering principle. 2.2 The division algorithm, The greatest common divisor, Euclid's Lemma, The least common multiple, The Euclidean Algorithm.
3	Aug 2022	08	Ch. 3 Primes and the theory of Congruence. 3.1 The fundamental number of arithmetic, Primes numbers, Euclid's lemma. 3.2 The theory of congruence. 3.3 Fermat's theorem.
4	Sep 2022	06	Ch.4 Complex Number. 4.1 Sum and Product, Basic Algebraic Properties, Moduli, Complex conjugate, Exponential form, Product and quotients, De- Moivre's theorem.
5	Oct 2022	04	4.2 Roots of complex numbers , The nth root of unity Region in complex plane.
	Term-		Geometry

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6	Dec 2022	10	 Ch. 1 Analytical Geometry of Two Dimension. 1.1 Change of axes: Rotation and translation. 1.2 Conic section: General equation of second degree. 1.3 Reduction to standard form, center of conic, nature of conic.
7	Jan 2023	10	Ch. 2 Plane. 2.1 Direction cosines direction ratios, Equation of plane, Normal form, Transformation to Normal form, Plane passing through three non collinear pointes, Intercept form, Angle between two planes.
8	Feb 2023	08	Ch. 3 Lines in three dimension. 3.1 Equation of line in symmetrical and unsymmetrical form, Line passing through two points. 3.2 Perpendicular distance of point from plane, Condition for two lines to be perpendicular.
9	Mar 2023	08	 Ch-4 Sphere. 4.1 Equation of sphere in different forms, Plane section of sphere. 4.2 Equation of circle, Sphere passing through a given circle. 4.3 Intersection of sphere and line, Equation of tangent plane to sphere.