Detailed Teaching Plan

Lecture No.	Unit No.	Topic to be covered	Books & Page Nos.	Notes Page Nos.	Slide Nos.	A/V Resource
L-01	1	Determinant: Definition, Order, Concept, Minor & Cofactor	Applied Maths-I Page 1-10			
L-02	1	Properties of Determinant: Exercise	Page 11-25			
L-03	1	Area of a triangle, Collinear	Notes	15-16		
L-04	1	Cramer's Rule: Solution of simultaneous equations	Notes	17-20		
L-05	1	Matrices: Definition, Order, Concept	Applied Maths-II Page 138-146			
L-06	1	Algebra of Matrices: Addition & Subtraction	Page 147-158			
L-07	1	Algebra of Matrices: Multiplication, Inverse of a Matrix	Page 160-210			
L-08	1	Matrix Method: Solution of simultaneous equations	Page 212-224			
L-09	2	Basic Trigonometry, Multiple angles	Applied Maths-I Page 76-90			
L-10	2	Sub multiple angles	Page 92-104			
L-11	2	Functions: Definition, Independent and Dependent Variables, Different types of functions	Page 346-354			
L-12	2	Limit: Concept of Limit	Page 355-364			
L-13	2	Evaluation of Limit	Page 365-375			

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L-14	2	Differentiation of Algebraic, Trigonometric, Exponential and Logarithmic functions	Page 379-392			
L-15	2	Differentiation of sum, product, quotient of two functions	Page 393-400			
L-16	2	Differentiation of function of a function	Page 401-406			
L-17	3	Applications of Differential Calculus	Higher Engg. Mathamatics Page 143-145			
L-18	3	Second order derivatives	Page 146-147			
L-19	3	Examples on second order derivatives	Page 148-150			
L-20	3	Equation of Tangent: Concept	Page 165			
L-21	3	Examples	Page 166-167			
L-22	3	Exercise	Page 168-169			
L-23	3	Equation of Normal: Concept	Page 165			
L-24	3	Examples	Page 166-167			
L-25	3	Exercise	Page 168-169			
L-26	3	Maxima and Minima for functions of one variable only	Page 184			

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L-27	3	Maxima and Minima for functions of one variable only	Page 185-186			
L-28	4	Various forms of straight lines	Page 154-164 Page 188-200			
L-29	4	Co-ordinates systems, slope point form, two points form	Page 201-212			
L-30	4	Distance between two points	Page 167-174			
L-31	4	Division of line segment	Page 175-185			
L-32	4	Two points intercepts form, general form	Page 213-230			
L-33	4	Perpendicular distance from a point on the line, perpendicular distance between two parallel lines	Page 231-240			
L-34	4	Conic Section: Definition, Standard forms	Page 250-265			
L-35	4	General equations, Centre, and radius of a circle	Page 267-279			
L-36	4	Focus, axis, directrix, latus rectum and vertex of parabola	Page 287-300			
L-37	4	Focus, axis, directrix, latus rectum and vertex of ellipse	Page 310-329			
L-38	5	Frequency distribution: Introduction	Page 479-480			
L-39	5	Graphical representation of frequency distribution	Page 481-487			

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Lecture No.	Unit No.	Topic to be covered	Books & Page Nos.	Notes Page Nos.	Slide Nos.	A/V Resource
L-40	5	Centre tendency: Mean, formula, Examples	Page 489-496			
L-41	5	Median: Formula, Examples	Page 497-501			
L-42	5	Mode: Formula, Examples	Page 502-507			
L-43	5	Measure of dispersion	Page 531-532			
L-44	5	Range: Formula, Examples	Page 533-534			
L-45	5	Quartile deviation: Formula, Examples	Page 535-539			
L-46	5	Standard Deviation: Formula, exercise	Page 540-546			
L-47	5	Root Mean square deviation	Page 547-550			
L-48	5	Variance and coefficient of variance	Notes	186-187		

Signature of Lecturer

Signature of HOD