

Annual & Weekly Syllabus Split-Up - 2025-26 GRADE XII APPLIED MATHEMATICS

S.No	Month	No. of Working Days	No. of Days	Topic	Sub Topic	Resources	Activity	Mid April Test	Periodic Test	Pre Mid Term	Mid Term	Periodic Test	Post Mid Term	Annual
1	March		Week 1											
			Week 2	6				Number Quantification			✓			
			Week 3	5				Algebraic Inequalities			✓			
			Week 4	6							✓			
			Week 5	6					✓		✓			
2	APRIL	23	Week 1	5	Number Quantification/ DETERMINANTS	Number Quantification: Properties of determinants; 10 properties; expansion of determinants; Area of a triangle; Adjoint	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.		✓		✓			
			Week 2	5	Algebraic Inequalities/ DETERMINANTS	Algebraic Inequalities: Criteria of consistency for consistency or inconsistency	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.				✓			
			Week 3	4	Matrices/DIFFERENTIATION	Matrices: Differentiation; higher order derivatives;	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.			✓	✓			
			Week 4	6	CH.6 APPLICATIONS OF DERIVATIVES	Derivative as a rate measure; Tangents and normals; methods of intervals; increasing and decreasing functions; Maxima and	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.			✓	✓			
			Week 5	3	CH.6 APPLICATIONS OF DERIVATIVES	Derivative as a rate measure; Tangents and normals; methods of intervals; increasing and decreasing functions; Maxima and	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.				✓			
3	JUNE	19	Week 1	0										
			Week 2	6	CH. 6 APPLICATIONS OF DERIVATIVES	Integration: Cost and marginal revenue, fixed cost; variable cost; average cost; Demand function; Revenue function; profit	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.				✓			
			Week 3	6	CH. 7 INTEGRALS	Integration: Integration by substitution; anti derivative; integration by partial fraction; error and signs of a differential equation;	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.				✓			
			Week 4	6	CH.8 DIFFERENTIAL EQUATIONS	solution of a differential equation; formation of differential equations; solving	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.				✓			
			Week 5	1	CH.8 DIFFERENTIAL EQUATIONS	Growth and Decay model; Newton's law of cooling; Carbon dating; Case study	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.							
4	JULY	27	Week 1	5	CH. 9 PROBABILITY	Mean and variance of probability distribution; Binomial distribution; concept	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.							
			Week 2	6	CH. 9 PROBABILITY	Mean and variance of probability distributions;	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.							
			Week 3	6	CH. 10 INFERENTIAL STATISTICS	Sampling; Parameter and statistic; central limit theorem; point estimation; Interval	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.							
			Week 4	6	CH. 10 INFERENTIAL STATISTICS	Assertion reasoning type questions; case study questions;	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.							
			Week 5	4	CH. 11 TIME BASED DATA	Time component; components of time series; method of moving averages; Trend analysis; method of least squares; procedure	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.							
5	AUGUST	23	Week 1	2	CH.12 PERPETUITY, SINKING FUNDS AND EMI	Present value of perpetuity; Present value when payment made at the beginning of every period; when payment made at the	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.							
			Week 2	5	CH.12 PERPETUITY, SINKING FUNDS AND EMI	Sinking fund; Equated monthly installment; Flat rate method; Reducing balance method	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.							
			Week 3	5	CH. 13 RETURNS, GROWTH AND DEPRECIATION	Return on investment; Nominal rate of return; Effective rate of return; CAGR Compound annual growth rate;	Text book Exercises; derivations, all concepts would be taught through senses board and software dealt with teaching learning process.							

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