

St. Xavier's School

Syllabus and Lesson Planner



Class	12 A, B, C & D	Syllabus (Session-2024-25)		
Subject	Mathematics			
Ch. No.	Name of Chapter	Topic	Month	Week
1	Algebra	Determinants	March	3rd
		Matrices	March	4th
		Inverse Trigonometric Functions	April	1st
2	Differential Calculus	Differentiation (Trigonometry and Inverse Trigonometric functions)	April	2nd
		Differentiation (Log, Exp., Parametric, Higher order derivatives)	April	3rd
		Application of Derivatives (Tangents, Normals, Rate measure)	April	4th
		Application of Derivatives (Approximation & Increasing, Decreasing Functions)	April	5th
		Application of Derivatives (Increasing and Decreasing Functions Max. & Min.)	May	1st
		UNIT TEST - 01 (Determinants & Matrices)		
3	Differential Calculus	Application of Algebra (Area using Determinant .)	May	2nd
		PROJECT 1 & 2		
4	Algebra and Calculus	Continuity, Differentiability & Mean Value Theorem	June	3rd
		Indeterminate forms of Limit	June	4th
		Indefinite Integration (By substitution)	July	1st
		Indefinite Integration (Special Integration)	July	2nd
		Relations and Functions	July	3rd
	Probability and Differential Equation	UNIT TEST - 02 (Differentiation and Application of derivatives)		
			July	4th
		Probability (Laws of Probability)	August	1st
		Differential Equation	August	2nd & 3rd
		Revision	August	4th
6	Section C / Section B	First Semester Examination (All the chapters above)		
		Application of Calculus in Commerce and Economics / Vectors	Sept.	3rd
		Application of Calculus in Commerce and Economics / 3-D Co-ordinate	Sept.	3rd
		Linear Regression / 3-D Co-ordinate	Sept.	4th
		Linear Programming / 3-D	Sept.	4th
7	Integration	Linear Programming / 3-D	Oct	1st
		Indefinite Integration	Oct.	2nd & 3rd
		UNIT TEST - 03 (Section B / Section C)		
		Definite Integration	Oct.	3rd
		Definite Integration	Oct.	4th
		Application of integration - Area	Nov.	2nd
8	Probability	Application of integration - Area	Nov.	3rd & 4th
		UNIT TEST - 04 (INTEGRATION - INDEFINITE AND DEFINITE)		
		Conditional Probability - (Baye's theorem, Binomial distribution)	Nov.	4th
		Revision	Dec.	1st
		Second Semester Exams (Model Examination)	Dec 2nd	