CLASS XII
APPLIED MATHEMATICS-241
SPLIT-UP SYLLABUS 2025-2026

EXAM	TOPIC/CHAPTER	Activity/Project	WEIGHTAGE
PT-I APRIL To JUNE	Ch-16: Financial Mathematics Ch-17: Linear Programming Ch-11: Probability Distribution and its Mean and Variance.	1. **Comparative Analysis Activity:** Comparing EMI of different banks, for the purchase of desired mobile phones after a year.	25
HALF – YEARLY JULY To SEPTEMBER	Ch-12: Standard Probability Distribution Ch-13: Inferential Statistics Ch-15: Time Series Analysis Ch-1: Number theory Ch-2: Quantification and Numerical Applications	2. **Probability Simulation-Project Work:** Make a probability distribution of the number of Persons who can vote among family and relatives. 3. **SEA on Normal Distribution**- "Understanding standard normal distribution".	30
PT-II OCTOBER To DECEMBER	Ch-3: Matrices Ch-4: Determinants Ch-5: Higher order Derivatives Ch-6: Applications of Derivatives Ch-7: Indefinite Integrals Ch-8: Definite Integrals Ch-9: Applications of Integrals Ch-10: Differential Equations	4. **Graphical Interpretation Activity:** Applications of Integrals - Visualization of area Under different curves. 5. **Application of Calculus in Business:** Using derivatives to Maximize Profit of a company.	25
YEARLY JANUARY To MARCH	REVISION		
TOTAL MARKS			**80**