

## Curriculum Subject- Applied Mathematics (241) Class – XII Session – 2025-26

Month April May June July	
ConceptsCh.1 Numbers & Quantification Ch.2 Numerical ApplicationsCh.3 Matrices and Determinants Ch.4 Derivatives and its applicationCh.5 Integration and its application Ch.6 Differential EquationsCh.7 Probability	
Students will be able to           0 troutomes         Define and papy congruence modulo.         Define matrix & Identify differential allegation to produce a mixture at a given price.         Define matrix corder of matrices.         Find the size / order of matrices.         Find the size / order of matrices.         Find the size / order of matrices.         Find probability distributions of matrices.         Find the size / order of matrices.         Find the size / order of matrices.         Find probability distribution of distribution of matrices.         Find probability distributions of matrices.         Find probability distribution of matrices.         Find probability matrices.         Find probability distribution of matrices.         Find probability distribution of matrices.         Find probability distributions of matrices.         Find probability distributions of matrices.         Find probability distributions.         Find the si	Je to ept of es and iscrete s. : mean nd the of a d noulli ution. ) of a ution. isson ean tion. il f l p and ion.

Skills	Logical and Analytical Thinking/Numeracy and Computational/Personal Development	<ul> <li>Find the absolute maximum and absolute minimum value of a function.</li> <li>Logical and Analytical Thinking/Numeracy and Computational/Personal Development</li> </ul>	Logical and Analytical Thinking/Numeracy and Computational/Personal Development	Logical and Analytical Thinking/Numeracy and Computational/Personal Development		
Activities	Competency-skills based activity/Experiential Learning: Fibonacci sequence: Its history and presence in nature.			Competency-skills based activity/Experiential Learning: Probability and dice roll simulation.		
Art Integration	Economics and Management Skills					
Assessment	<ul> <li>Project work and record</li> <li>Year-end Presentation/ Viva of the Project</li> <li>Main Book: 'Applied Mathematics'</li> </ul>					



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Session – 2025-26

Month	August	September	October	November /December	
Concepts	Ch.8 Financial	Ch.9 Inferential Statistics	Ch.10 Linear	Ch 12 Logical Boasoning	
	Mathematics		programming		
				Revision of complete	
			Ch.11 Time series	syllabus with HOTS	
	Students will be able to	Students will be able to	Students will be able		
	• Explain the concept of	Differentiate between	to	Students will be able to	
	perpetuity and sinking	population and sample.	Familiarize with	<ul> <li>Solve logical problems</li> </ul>	
Learning	funds.	<ul> <li>Differentiate between a</li> </ul>	terms related to	involving odd man out,	
J J	Calculate perpetuity.	representative and	Linear Programming	syllogism, blood relation	
	Differentiate between	unrepresentative sample.	Problem.	and coding decoding.	
Outcomes	sinking fund and saving	<ul> <li>Draw a representative</li> </ul>	<ul> <li>Identify and</li> </ul>		
	account.	sample using simple	formulate different		
	• Explain the concept of	random sampling.	types of LPP.		
	EMI.	<ul> <li>Draw a representative</li> </ul>	<ul> <li>Identify feasible,</li> </ul>		
	Calculate EMI using	sample using systematic	infeasible, bounded		
	various methods.	and random sampling.	and unbounded		
	Explain the concept of     rate of return and	Explain the relation     between Parameter and	Pagerika faasikla		
	nominal rate of return	Statistic	<ul> <li>Describe reasible</li> <li>and infeasible</li> </ul>		
	<ul> <li>Calculate rate of return</li> </ul>	<ul> <li>Explain the limitation of</li> </ul>	solutions		
	and nominal rate of	Statistics to generalize the	<ul> <li>Find optimal</li> </ul>		
	return.	estimation for population.	feasible solutions.		
	• Describe the concept of	<ul> <li>Interpret the concept of</li> </ul>	<ul> <li>Distinguish between</li> </ul>		
	Compound Annual	Statistical Significance and	different things.		
	Growth Rate.	Statistical Inferences.	<ul> <li>Components of time</li> </ul>		
	Differentiate between	<ul> <li>Explain the relation</li> </ul>	series.		
	Compound Annual	between	<ul> <li>Solve practical</li> </ul>		
	Growth Rate and Annual	Population-Sampling	problems based on		
	Growth Rate Calculate	Distribution-Sample.	statistical data and		
	Compound Annual	Differentiate between Null	Interpret the result.		
	Growth Rate.	and Alternate hypothesis.	Demonstrate the     techniques of		
	Define the concept of	Define and calculate the     degree of freedom	finding tronds by		
		<ul> <li>Test Null hypothesis and</li> </ul>	different methods		
	<ul> <li>Interpret cost residual</li> </ul>	make inferences using	uncrent methous.		
	value and useful life of	t-test statistics for one			
	an asset from the given	group / two independent			
	information.	groups.			
Skills	Logical and Analytical	Logical and Analytical	Logical and Analytical	Logical and Analytical	
	Thinking/Numeracy and	Thinking/Numeracy and	Thinking/Numeracy	Thinking/Numeracy and	
	Computational/Academic	Computational/Academic	and	Computational/Personal	
	And Life Skills/Personal	And Life Skills/Personal	Computational/Acade	Development	
	Development	Development	mic And Life		
			Skills/Personal		
Activity		Competency-skills based	Competency_chille		
Activity	Competency-skills based	activity/Experiential	based		
	activity/Experiential	Learning:	activity/Experiential		
	Learning :	Predicting stock market	Learning:		
	Logarithms for financial	crash.	Weather prediction		
	interest present value		(prediction of		
	future value profit/loss		monsoon from past		
	etc. with large values).		data).		
Art Integration	Economics and Managemer	nt Skills			
Assessment	Project work and record				
	Year-end Presentation/ V	iva of the Project			
	Main Book: 'Applied Mathematics'				