## STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI

Course Schedule: November 2024 – April 2025

**Department** : Mathematics

Name of the Faculty : Dr. Sindiya Therese S

Course Title : NUMERICAL METHODS WITH PROGRAMS IN C

Course Code : 19MT/ME/NM45

Shift : I

Week & No. of	Units & Topics	Teaching	Text &	Method of
hours		Methodology	References	Evaluation
Nov 18 – 25, 2024 (Day Order 1-6) 6 hrs	Unit 1: Numerical Solutions of Algebraic and Transcendental Equations 1.1 Bolzano's Bisection Method 1.2 Newton Raphson Method Practical 1.5 C program to find the Smallest Positive Root / the Largest Negative Root of the equation f(x) = 0 by using the Bisection Method and Newton Raphson Method	Problem Solving, Group Work, Hands on training	Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019	Slip Test & Assignment
Nov 26- Dec 3, 2024 (Day Order 1 to 6) 6 hrs	Unit 1: Numerical Solutions of Algebraic and Transcendental Equations Iterative Methods of Solving Simultaneous Equations 1.3 Jacobi's Method Practical 1.6 C program to solve a System of Linear Algebraic Equations using Gauss Jacobi's Iteration Method and Gauss Siedel Method	Problem Solving, Group Work, Hands on training	Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019	Slip Test & Assignment
Dec 4-11, 2024 (Day Order 1 to 6) 6 hrs	Unit 1: Numerical Solutions of Algebraic and Transcendental Equations Iterative Methods of Solving Simultaneous Equations 1.4 Gauss Seidel Iteration Method Practical 1.6 C program to solve a System of Linear Algebraic Equations using Gauss Jacobi's Iteration Method and Gauss Siedel Method	Problem Solving, Group Work, Hands on training	Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019	Slip Test & Assignment

Dec 12 10 2024	Unit 2. Finite Difference	Problem	Vacantian T - 1	Clin Test 0
Dec 12-19, 2024	Unit 2: Finite Differences 2.1 Forward Differences	Solving, Group	Veerarajan T. and	Slip Test &
(Day Order 1 to	2.2 Backward Differences	Work, Hands on	Ramachandran T.,	Assignment
6) 6 hrs	Practical	training	Numerical	
	2.7 C program to Interpolate and	uanning	Methods, New	
	Extrapolate using the given pairs of		Delhi: McGraw	
	values of x and y by Newton's		Hill, 2019	
	Forward and Backward Interpolation			
	Formulae			
Dec 20, 2024	<b>Unit 2: Finite Differences</b>	Problem	Veerarajan T. and	Slip Test &
(Day Order 1) 2	2.3 Central Differences Interpolation	Solving, Group	Ramachandran T.,	Assignment
hrs	with Equal Intervals	Work, Hands on	Numerical	7 issignment
111.5	Practical	training		
	2.8 C program to Interpolate using		Methods, New	
	the given pairs of values of x and y		Delhi: McGraw	
	by Stirling's Central Difference		Hill, 2019	
	Interpolation Formula			
Jan 3 – 7, 2025	Unit 2: Finite Differences	Problem	Veerarajan T. and	Slip Test &
(Day Order 3 to	2.4 Gregory-Newton's Forward and	Solving, Group	Ramachandran T.,	Assignment
, •	Backward Interpolation Formulae	Work, Hands on	Numerical	Assignment
6) 3 hrs	Practical	training		
	2.8 C program to Interpolate using		Methods, New	
	the given pairs of values of x and y		Delhi: McGraw	
	by Stirling's Central Difference		Hill, 2019	
	Interpolation Formula			
	2.9 C program to Interpolate y using			
	the given pairs of values of x and y			
	by Lagrange's Interpolation Formula			
Jan 8 – 17, 2024	<b>Unit 2: Finite Differences</b>	Problem	Veerarajan T. and	Third
(Day Order 1 to	2.5 Central Difference Interpolation	Solving, Group	Ramachandran T.,	Component
6) 6 hrs	Formulae – Gauss Forward and	Work, Hands on	Numerical	Test I – 25
	Backward Interpolation Formulae,	training	Methods, New	Marks
	Stirling's Interpolation Formula		Delhi: McGraw	
	Interpolation with Unequal Intervals 2.6 Lagrange's Interpolation		Hill, 2019	Assignmen
	Formula for Unequal Intervals		,	t – Unit 1,2
	Practical			
	2.9 C program to Interpolate y using			
	the given pairs of values of x and y			
	by Lagrange's Interpolation Formula			
T 10 22 2027				
Jan 18 - 23, 2025				
	C.A. T	Test – I (Unit 1 &	2)	

Jan 24 - 30, 2025   Ohit 3: Numerical Differentiation   Solving, Group work, Hands on the protection   Cap Order 1 to 6) 6 hrs   Dead on Newton's Forward and Backward Interpolation Formula   Stirling's Formula   Practical   Size of Problem   Solving, Group work, Hands on training	Ion 24 20 2025	<b>Unit 3: Numerical Differentiation</b>	Problem	Vacrorsian T and	Clip Toot 0-
based on Newton's Forward and Backward Interpolation Formulae, Stirling's Formula Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula 9.6 6 hrs    Feb 3-8, 2025 (Day Order 1 to 6) 6 hrs   Feb 10-18, 2025 (Day Order 1 to 4) 4 hrs   4.3 C program to Evaluate numerically using Trapezoidal and Simpson's rule    Feb 19-26, 2025 (Day Order 1 to 6) 6 hrs   Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs    Mar 7 - 11, 2025 (Day Order 1 to 6) 6 hrs    Mar 7 - 11, 2025 (Day Order 1 to 6) 6 hrs    Mar 7 - 11, 2025 (Day Order 1 to 6) 6 hrs    Mar 7 - 11, 2025 (Day Order 1 to 6) 6 hrs    Mar 7 - 11, 2025 (Day Order 1 to 6) 6 hrs    Mar 7 - 10, 2025 (Day Order 1 to 6) 6 hrs    Mar 7 - 11, 2025 (Day Order 1 to 6) 6 hrs    Mar 8 - 2025 (Day Order 1 to 6) 6 hrs    Mar 9 - 2025 (Day Order 1 to 6) 6 hrs    Mar 10 - 2025 (Day Order 1 to 6) 6 hrs    Mar 11 - 2025 (Day Order 1 to 6) 6 hrs    Mar 12 - 2025 (Day Order 1 to 6) 6 hrs    Mar 13 - 2025 (Day Order 1 to 6) 6 hrs    Mar 14 - 2025 (Day Order 1 to 6) 6 hrs    Mar 15 - 2025 (Day Order 1 to 6) 6 hrs    Mar	·				-
Backward Interpolation Formulae, Stirling's Formula Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula  Feb 3-8, 2025 (Day Order 1 to 6) 6 hrs  Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula  Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula  Peb 10 18, 2025 (Day Order 1 to 4) 4 hrs  Practical 4.1 Newton Cote's Quadrature Formula 4.2 Trapezoidal Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Problem 4.3 Simpson's One Third Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Problem 4.3 Simpson's One Third Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Problem 4.4 Simpson's Three Eighth Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Problem 50/ving, Group Work, Hands on training  Problem 50/ving, Group Work, Hands o		•			Assignment
Sitring's Formula Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula  Teb 3-8, 2025 (Day Order 1 to 6) 6 hrs  Wing Newton's Formula - Maximum and Minimum Value of f(x) Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula 4.1 Newton Cote's Quadrature Formula 4.2 Trapezoidal Rule Practical 4.2 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Wint 4: Numerical Integration 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Wint 4: Numerical Integration 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Wint 4: Numerical Integration 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Problem Solving, Group Work, Hands on training  Problem Solving, Group Work, Hands on tra	6) 6 hrs		*		
Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula 2.2 Second Order Derivatives of f(x) using Newton's Formula - Maximum and Minimum Value of f(x) Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton's Formula - Maximum and Minimum Value of f(x) Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula 4.1 Newton Cote's Quadrature Formula 4.1 Newton Cote's Quadrature Formula 4.2 Trapezoidal Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule			training	Methods, New	
Silip Test & Assignment   Silip Test & Assignment   Silip Test & Assignment		_		Delhi: McGraw	
at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula  Peb 3-8, 2025 (Day Order 1 to 6) 6 hrs  Unit 3: Numerical Differentiation 3.2 Second Order Derivatives of f(x) using Newton's Formulae - Maximum and Minimum Value of f(x)  Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula 4.1 Newton Cote's Quadrature Formula 4.2 Trapezoidal Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Feb 19- 26, 2025 (Day Order 1-6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6. 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6. 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6. 2025 (Day Order 1 to 6) 6 hrs  Feb 28- There Eighth Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Feb 28- There Eighth Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Feb 27- Mar 6. 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6. 2025 (Day Order 1 to 6) 6 hrs  Feb 28- There Eighth Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Feb 28- There Eighth Rule Practical 5.4 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Feb 29- There Eighth Rule Practical 5.4 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Feb 29- There Eighth Rule Practical 5.4 C program to Solving Group Work, Hands on training Trapezoidal and Simpson's rule  Feb 29- There Eighth Rule Practical 5.4 C program to Solving Group Work, Hands on training Trapezoidal and Simpson's rule  Feb 29- There Eighth Rule Practical 5.4 C program to Solving Group Work, Hands on training Trapezoidal and Simpson's rule  Feb 19- 26, 2025 (Day Order 1 to 6) 6 hrs  Feb 29- There Eighth Rule Practical Ferential Equations Practical 5.4 C program to Solving Group Work, Hands on training Trapezoidal and Solving Group Work, Hands on training Trapezoidal and Solving				Hill, 2019	
Feb 3-8, 2025 (Day Order 1 to 6) 6 hrs  Feb 10- 18, 2025 (Day Order 1 to 4) 4 hrs  Feb 19- 26, 2025 (Day Order 1-6) 6 hrs  Feb 19- 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Maximpson's rule  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Maximpson's rule  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Maximpson's rule  Maximpson's rule  Maximpson's rule  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Maximpson's rule  Maximpson's rule  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Maximpson's rule  Maximpson's rule  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Maximpson's rule  Maximpson's rule  Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Problem 5.1 Numerical Integration 4.4 Simpson's Three Eighth Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Problem 5.1 Numerical Integration 6.2025  Maximpson's rule  Maximpson's rule  Problem 5.1 Numerical Integration 6.2025  Maximpson's rule  Maximpson's rule  Problem 5.1 Numerical Integration 6.2025  Maximpson's rule  Maximpson's rule  Problem 5.1 Numerical Integration 6.2025  Maximpson's rule  Maximpson's rule  Problem 5.1 Numerical Integration 7. Numerical Methods, New Delhi: McGraw Hill, 2019  Maximpson's rule  Maximpson's rule  Maximpson's rule  Problem 5.1 Numerical Integration 7. Numerical Methods, New Delhi: McGraw Hill, 2019  Maximpson's rule  Maximpson's rule  Maximpson's rule  Maximpson's rule  Methods, New Delhi: McGraw Hill, 2019  Maximpson's rule  Methods, New Delhi: McGraw					
Feb 3-8, 2025					
Feb 3-8, 2025 (Day Order 1 to 6) 6 hrs   Unit 3: Numerical Differentiation 3.2 Second Order Derivatives of f(x) using Newton's Formulae - Maximum and Minimum Value of f(x)   Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula 4.3 Howton Cote's Quadrature Formula 4.2 Trapezoidal Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Unit 4: Numerical Integration 4.3 Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Unit 4: Numerical Integration 4.4 Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 5.4 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 5.4 C program to Solution to Ordinary Differential Equations Practical 5.4 C program to Solution to Ordinary Differential Equations Practical 5.4 C program to Solve the Differential Equation by Euler's Methods, New Delhi: McGraw Hill, 2019   Project – Marks Ordinary Differential Equation by Euler's Methods, New Delhi: McGraw Hill, 2019   Project – Marks Ordinary Differential Equation by Euler's Methods, New Delhi: McGraw Hill, 2019   Project – Marks Ordinary Delhi: McGraw		=			
CDay Order 1 to 6) 6 hrs   Solving Group Work, Hands on Maximum and Minimum Value of f(x) Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula 4.1 Newton Cote's Quadrature Formula 4.2 Trapezoidal Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's Trule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem 5.1 Numerical Solution to Ordinary Differential Equations Practical 5.4 C program to Solve the Differential Equation by Euler's   Problem 5.1 Numerical Solution to Ordinary Differential Equation by Euler's   Problem 5.1 Numerical Solution to Ordinary Differential Equation by Euler's   Problem 5.1 Numerical Solve the Differential Equation by Euler's   Problem 5.1 Numerical Solve the Differential Equation by Euler's   Problem 5.1 Numerical Solve the Differential Equation by Euler's   Problem 5.1 Numerical Solve the Differential Equation by Euler's   Problem 5.1 Numerical Solve the Differential Equation by	Feb 3-8, 2025	•	Problem	Veeraraian T and	Slin Test &
belin: McGraw Hill, 2019  work, Hands on training work	·			_	_
Maximum and Minimum Value of f(x)  Practical 3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula  Feb 10–18, 2025 (Day Order 1 to 4) 4 hrs  Veerarajan T. and 4.1 Newton Cote's Quadrature Formula 4.2 Trapezoidal Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Feb 19–26, 2025 (Day Order 1-6) 6 hrs  Veerarajan T. and 8.3 Slip Test & Assignment Numerical Methods, New Delhi: McGraw Hill, 2019  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Veerarajan T. and Solving, Group Work, Hands on training  Problem Solving, Group Work, Hands on training		· · ·			Assignment
f(x)   Practical   3.3 C program to find the Derivative at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula	0) 0 1118		*		
Feb 10– 18, 2025 (Day Order 1 to 4) 4 hrs  Feb 19– 26, 2025 (Day Order 1-6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order		f(x)		,	
at the Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula  Feb 10–18, 2025 (Day Order 1 to 4) 4 hrs  Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula  Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula  Initial Point of a Tabulated Function by Newton Forward and Backward Interpolation Formula  Initial Point of a Tabulated Function Vinit (Practical)  Initial Point of a Tabulated Function (Initial Practical)  Initial Protection (Initial Protection)  Initial P		Practical			
Feb 10–18, 2025 (Day Order 1 to 4) 4 hrs  Feb 19–26, 2025 (Day Order 1-6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Mar 7 – 11, 2025 (Day Order 1 to 3) 3 hrs  Feb 10–18, 2025 (Day Order 1 to 3) 3 hrs  Feb 10–18, 2025 (Day Order 1 to 4) 4 hrs  Frunction by Newton Forward and Backward Interpolation Formula 4.1 Newton Cote's Quadrature Formula 4.2 Trapezoidal Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Feb 19-26, 2025 (Day Order 1-6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 28- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 29- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Fractical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Fractical 5.4 C program to Solve the Differential Equation by Euler's  Feb 27- Mar 6, 2025 Marks  Froblem Solving, Group Work, Hands on training  Froblem Solving Group Work, Hands on trainin		3.3 C program to find the Derivative		Hill, 2019	
Backward Interpolation Formula   Feb 10–18, 2025   Unit 4: Numerical Integration   4.4 hrs   4 hrs   4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem   Solving, Group Work, Hands on training   Work, Hands on training   Veerarajan T. and Methods, New Delhi: McGraw Hill, 2019   Mar 7 – 11, 2025 (Day Order 1 to 6) 6 hrs   Unit 4: Numerical Integration   4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem   Solving, Group Work, Hands on training   Veerarajan T. and Solving, Group Work, Hands on training   Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019   Numerical Methods, New Delhi: McG					
Feb 10-18, 2025 (Day Order 1 to 4) 4 hrs   Variety of the practical (4.1 Newton Cote's Quadrature Formula (4.2 Trapezoidal Rule Practical (4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem (A.3 Simpson's One Third Rule Practical (4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem (A.3 Simpson's One Third Rule Practical (4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem (A.4 Simpson's One Third Rule Practical (4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem (A.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem (A.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem (A.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem (A.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem (A.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem (A.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule   Problem (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C program to Evaluate numerically using Trapezoidal and (A.5 C prog		•			
CDay Order 1 to 4) 4 hrs	T. 10 10 2027		D 11		GII T
4) 4 hrs  Formula 4.2 Trapezoidal Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Feb 19- 26, 2025 (Day Order 1-6) 6 hrs  Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Unit 4: Numerical Integration 4.4 Simpson's One Third Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Problem Solving, Group Work, Hands on training	*			=	_
4.2 Trapezoidal Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Problem Solving, Group Work, Hands on training	=	~			Assignment
Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Practical 4.3 Simpson's One Third Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Problem Solving, Group Work, Hands on training  Problem Solving T. And Ramachandran T., Numerical Methods, New Delhi:	4) 4 hrs			Numerical	
4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Problem Solving, Group Work, Hands on training			training	Methods, New	
Reb 19- 26, 2025 (Day Order 1-6) 6 hrs   Component Numerically using Trapezoidal and Simpson's rule   Problem Solving, Group Work, Hands on training   Problem Solving, Group Work, Ha				Delhi: McGraw	
Feb 19- 26, 2025 (Day Order 1-6) 6 hrs  Unit 4: Numerical Integration 4.5 C program to Evaluate numerically using Trapezoidal and Solving, Group Work, Hands on training  Problem Solving, Group Work, Hands on training  Weerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019  Mar 7 – 11, 2025 (Day Order 1 to 6) 6 hrs  Unit 5: Application 5.1 Numerical Solution to Ordinary Differential Equations Practical 5.4 C program to Solve the Differential Equation by Euler's Methods  Project –  Project –  Project –		1 0		Hill, 2019	
Problem   Problem   Solving, Group   Work, Hands on training   Problem   Solving, G					
(Day Order 1-6) 6 hrs  4.3 Simpson's One Third Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Vork, Hands on training  Problem Solving, Group Work, Hands on training  Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019  Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019  Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019  Mar 7 – 11, 2025 (Day Order 1 to 3) 3 hrs  Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019  Problem Solving, Group Work, Hands on training  Problem Solving, Group Work, Hands on training  Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019  Third Component Test II – 25 Methods, New Delhi: McGraw Hill, 2019  Project –	Feb 19- 26, 2025		Problem	Veeraraian T and	Slin Test &
Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Mar 7 – 11, 2025 (Day Order 1 to 3) 3 hrs  Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Work, Hands on training  Work, Hands on training  Problem Solving, Group Work, Hands on training  Methods, New Delhi: McGraw Hill, 2019  Problem Solving, Group Work, Hands on training  Methods, New Delhi: McGraw Hill, 2019  Mar 7 – 11, 2025 (Day Order 1 to 3) 3 hrs  Problem Solving, Group Work, Hands on training	·				_
4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule    Vinit 4: Numerical Integration 4.4 Simpson's Three Eighth Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule    Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019    Mar 7 - 11, 2025 (Day Order 1 to 3) 3 hrs   Unit 5: Application 5.1 Numerical Solution to Ordinary Differential Equations Practical 5.4 C program to Solve the Differential Equation by Euler's Methods, New Delhi: McGraw Hill, 2019    Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019   Numerical Met	1	-			Assignment
numerically using Trapezoidal and Simpson's rule  Problem Solving, Group Work, Hands on training  Mar 7 – 11, 2025 (Day Order 1 to 3) 3 hrs  Unit 4: Numerical Integration 4.4 Simpson's Three Eighth Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Problem Solving, Group Work, Hands on training  Problem Solving, Group Work, Hands on training  Problem Solving, Group Work, Hands on training  Problem Solving, Group Weerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019  Problem Solving, Group Work, Hands on training  Work, Hands on training  Problem Solving, Group Work, Hands on training	o nrs		1		
Feb 27- Mar 6, 2025 (Day Order 1 to 6) 6 hrs  Mar 7 – 11, 2025 (Day Order 1 to 3) 3 hrs  Unit 4: Numerical Integration 4.4 Simpson's Three Eighth Rule Practical 4.5 C program to Evaluate numerically using Trapezoidal and Simpson's rule  Mar 7 – 11, 2025 (Day Order 1 to 3) 3 hrs  Unit 5: Application 5.1 Numerical Solution to Ordinary Differential Equations Practical 5.4 C program to Solve the Differential Equation by Euler's Methods  Methods  Hill, 2019  Veerarajan T. and Ramachandran T., Numerical Solving, Group Work, Hands on training  Veerarajan T. and Ramachandran T., Numerical Third Component Test II – 25 Methods, New Delhi: McGraw Hill, 2019  Project –		1 0		, and the second	
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5.4 C program to Solve the Differential Equation by Euler's Method Method Delhi: McGraw Hill, 2019 Project –	3) 3 III'S	=			
Differential Equation by Euler's Method  Method  Project –		5.4 C program to Solve the		•	IVIATKS
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Mar 12 –17, 2025	C.A. Test – II (Unit 3 & 4)			
Mar 18 – 20, 2025 (Day 4 to 6) 2 hrs	Unit 5: Application 5.2 Euler's Method Practical 5.4 C program to Solve the Differential Equation by Euler's Method	Problem Solving, Group Work, Hands on training	Veerarajan T. and Ramachandran T., <b>Numerical</b> <b>Methods</b> , New Delhi: McGraw Hill, 2019	Slip Test & Assignment
Mar 21 - 28, 2025 (Day Order 1 to 6) 6 hrs	Unit 5: Application 5.3 Runge Kutta Method Practical 5.5 C program to Solve Simultaneous Differential Equations by using Runge Kutta Method of the Fourth Order	Problem Solving, Group Work, Hands on training	Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019	Slip Test & Assignment
Mar 29- April 3, 2025 (Day Order 1 to 3) 3 hrs	Unit 5: Application 5.3 Runge Kutta Method Practical 5.5 C program to Solve Simultaneous Differential Equations by using Runge Kutta Method of the Fourth Order	Problem Solving, Group Work, Hands on training	Veerarajan T. and Ramachandran T., Numerical Methods, New Delhi: McGraw Hill, 2019	Slip Test & Assignment
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