

SVRK GOVERNMENT DEGREE COLLEGE :: NIDADAVOLE
TABLE - A - CURRICULAR PLAN - LECTURERE WISE:: 2022-23

NAME OF THE LECTURER: G.P.Prakasam Babu
CLASS: I B.Sc.

SEMESTER: I

DEPARTMENT: Mathematics
PAPER: Differential Equations

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPIC	ADDITIONAL INPUT /VALUE ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				REMARKS
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATIVE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATIVE DATE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	OCT 3 rd Week	4	UNIT:1 Differential Equations of first order and first degree: Linear Differential Equations; Differential equations reducible to linear form		ICT based	6			Entry level test				
2	OCT 4 th Week	6	Exact differential equations; Integrating factors.	Application oriented examples on Differential equations of first order and first degree	Digital Classroom	5			Assignment	1			
3	NOV 1 st Week	6	UNIT:2 Differential Equations of first order but not of the first degree: Equations solvable for p; Equations solvable for y.	Material to be Provided	Teaching	5			Guest Lecture	1			
4	NOV 2 nd Week	6	Equations solvable for x; Equations homogeneous in x and y		ICT based	5			seminar	1			
5	NOV 3 rd Week	6	Equations of the first degree in x and y - Clairaut's Equation.		Digital Classroom	5			Assignment	1			

13	JAN 2 nd Week	6	P.L of $t(D)y = Q$ when $Q = x V$, where V is a function of x .			Digital Classroom	5			Assignment	1					
14	JAN 3 rd week	6	UNIT :5 Higher order linear differentialequations-III : Method of variation of parameters			Teaching II MID Examinations	5	1								
15	JAN 4 th Week	6	Linear differential Equations with non-constant coefficients(Solution when a part of CF is known method only)			ICT based	5			Assignment	1					
16	FEB 1 st Week	6	The Cauchy-Euler Equation, Legendre's linear equations.			Digital Classroom	6									
17	FEB 2 nd Week	6	Revision			Teaching	6									

SIGNATURE OF THE LECTURER

SIGNATURE OF THE DEPARTMENT INCHARGE

SIGNATURE OF THE PRINCIPAL

Department: Mathematics Class: II B.Sc.

S.V.R.K GOVT. DEGREE COLLEGE (M) NIDADAYOLE
TABLE - A CURRICULAR PLAN - LECTURER-WISE
Year: 2022-23

Paper: Abstract Algebra

Semester: III

Name of the Lecturer: G.PRAKASAM BABU

S. No.	Month & Week	Hours	Syllabus Topic	Additional input / value addition	Curricular Activity				Co-curricular Activity				Remarks
					Activity	Hours allotted	Whether conducted	If nor, alternate date	Activity	Hours allotted	Whether conducted	If not, alternate date	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	October 4 th Week	5	GROUPS: Binary Operation – Algebraic structure – Semi group-Monoid – Examples		Assessment & Teaching	5							
2	November 1 st Week	6	Group definition and elementary properties, Finite and infinite groups – examples order of a group, Composition tables with examples.	Application oriented examples on Groups and subgroup and Provided material	ICT & Digital Class Room (DCR)	5			Guest Lecture	1			
3	2 nd Week	6	SUBGROUP: Complex Definition – Multiplication of two complexes Inverse of a complex-Subgroup definition-examples.		ICT & DCR	6							
4	3 rd Week	6	Criterion for a complex to be a subgroup, Criterion for the product of two subgroups to be a subgroup.		ICT & DCR	5			Assignment	1			
5	4 th Week	6	Union and Intersection of subgroups.		ICT & DCR	5			Quiz	1			
6	5 th Week	6	Cosets and Lagrange's Theorem: Cosets Definition – properties of Cosets–Index of a subgroups of a finite groups–Lagrange's Theorem..		ICT & DCR	5			National Seminar	1			

7	December 1 st Week	6	NORMAL SUBGROUPS: Definition of normal subgroup – Proper and improper normal subgroup – Hamilton group.	Application oriented examples on Normal sub groups. Provided material	ICT& DCR	5			Group discussion	1				
8	2 nd Week	6	Criterion for a subgroup to be a normal subgroup – intersection of two normal subgroups.		ICT& DCR	5			Quiz	1				
9	3 rd Week	6	Sub group of index 2 is a normal sub group – quotient group – criteria for the existence of a quotient group. MID I EXAMINATION		ICT& DCR	4 1			Guest lecture on the Occasion of National Mathematics day	1				
10	4 th Week	6	HOMOMORPHISM: Definition of homomorphism – Image of homomorphism elementary properties of homomorphism		ICT& DCR	5			Student Seminar	1				
11	January -23 1 st week	6	Isomorphism – automorphism definitions and elementary properties.	Application oriented examples homomorphism of group and Permutations and Provided material	ICT& DCR	5			Group discussion	1				
12	2 nd Week	6	Kernel of a homomorphism – fundamental theorem on Homomorphism and applications.		ICT& DCR	5			Assignment	1				
13	3 rd Week	6	PERMUTATIONS: Definition of permutation – permutation multiplication – Inverse of a permutation – MID II EXAMINATION		ICT& DCR	4 1			Student Seminar	1				
14	4 th Week	6	Cyclic permutations – transposition – even and odd permutations – Cayley's theorem.		ICT& DCR	5			Problem Solving	1				
15	February 1 st week	6	RINGS: Definition of Ring and basic properties, Boolean Rings, divisors of zero and cancellation laws Rings	Application oriented examples on Rings and Provided material	ICT& DCR	6			Group discussion	1				
16	2 nd Week	6	Integral Domains, Division Ring and Fields, The characteristic of a ring - The characteristic of an Integral domain		ICT& DCR	5								
17	3 rd Week		The characteristic of a Field. Sub Rings & Revision		ICT& DCR									
18	4 th Week		SEMESTER END EXAMINATIONS											

Signature of the Lecturer

Signature of the Lecturer in Charge of the department

Signature of the Principal

SVRK GOVERNMENT DEGREE COLLEGE :: NIDAVAYOLE
TABLE - A - CURRICULAR PLAN - LECTURER WISE

NAME OF THE LECTURER : G.Prakasam Babu
DEPARTMENT : MATHEMATICS

CLASS: III BSC

PAPER: Numerical Methods
YEAR: 2022-2023

SEMESTER : V

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPIC	ADDITIONAL INPUT /VALUE ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				REMARKS
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTER NATIVE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTER NATIVE DATE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	NOV 3 rd Week	6	Finite Differences and Interpolation with Equal intervals ; Introduction, Forward differences, Backward differences, Central Differences, Symbolic relations, nth Differences of Some functions		ICT & Digital class Room	5			Problem Solving	1			
2	NOV 4 th Week	6	Advancing Difference formula, Differences of Factorial Polynomial.		ICT & Digital class Room	5			Assignment	1			
3	November & 5 th Week	6	Newton's formulae for interpolation. Central Difference Interpolation Formulae	Application oriented examples on Beta and Gamma functions	ICT & Digital class Room	6							
4	December & 1 st Week	6	Interpolation with Equal and Unequal intervals Central Difference Interpolation Formulae. Gauss's Forward interpolation formula		ICT & Digital class Room	6							
5	December & 2 nd Week	6	Gauss's backward interpolation formula, . Sterling's formula, Bessel's formula		ICT & Digital class Room	6							
6	December & 3 rd Week	6	Interpolation with unevenly spaced points divided differences and properties, Newton's divided differences formula. Lagrange's interpolation formula. Lagrange's Inverse interpolation formula.	Applications Oriented Examples on Interpolation with equal and unevenly spaced Differences and provide material	ICT & Digital class Room	5			Lecture on the occasion of	1			

S.No	Date	Topic	Theory Lectures	Tutorials	Practicals	Self Study	Assessment
7	December & 4 th Week	Numerical Differentiation : Derivatives using forward difference formula , Derivatives using central difference formula	6				
8	January & 1 st week	Newton's back ward difference formula Stirling's interpolation formula,	6				
9	January & 2 nd Week	Newton's divided difference formula, Maximum and minimum values of a tabulated function	6				
10	January & 3 rd Week	Numerical Integration General quadrature formula one errors, Trapezoidal rule,	6				
11	January & 4 th Week	Simpson's 1/3 - rule, Simpson's 3/8 - rule, and Weddle's rules,	6				
12	February & 1 st Week	Numerical solution of ordinary differential equations	6				
13	February & 2 nd Week	Euler – McLaurin Formula of summation and quadrature, The Euler transformation	6				
14	February & 3 rd Week	Introduction, Solution by Taylor's Series	6				
15	February & 4 th Week	Picard's method of successive approximations, Euler's method, Modified Euler's method .	6				

16	March & 1 st Week	6	Runge – Kutta methods												
17	March & 2 nd Week	6	Revision												
				ICT & Digital class Room	6										
				ICT & Digital class Room	6										

NAME OF THE LECTURER
DEPARTMENT
SEMESTER

: N.E.K. Devi
: MATHEMATICS
: V

SVKM'S GOVERNMENT DEGREE COLLEGE :: NIDAVAYOLE
TABLE - A - CURRICULAR PLAN - LECTURE WISE

CLASS: III BSC

PAPER: Mathematical Special Functions
YEAR: 2022-2023

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPIC	ADDITIONAL INPUT VALUE ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				REMARKS
					ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATIVE DATE	ACTIVITY	HOURS ALLOTTED	WHETHER CONDUCTED	IF NOT, ALTERNATIVE DATE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	NOV 3 rd Week	4	Unit - I: Beta and Gamma functions. 1. Euler's Integrals-Beta and Gamma Functions	Application oriented examples on Beta and Gamma functions	ICT based	5			Problem Solving	1			
	NOV 4 th Week	6			Digital Classroom	5			Assignment	1			
	DEC 1 st Week	6			Teaching	6							
	DEC 2 nd Week	6			Digital Classroom	5			Problem Solving	1			
2	DEC 3 rd Week	6	Unit - 2: Power series and Power series solutions of ordinary differential equations 1. Introduction, summary of useful results, power series, radius of convergence, theorems on Power series 2. Introduction of power series solutions of ordinary differential equation	Material to be provided	ICT based	5			Guest Lecture on the occasion of National Mathematics Day	1			

