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

NAME OF THE LECTURER:N.U.K.DEVI CLASS: 1 B.Sc. YEAR: 1

SEMESTER: II

DEPARTMENT: Mathematics
PAPER: II, Solid Geometry

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	June 3 rd week	June 2 nd week	June 1 st week	2	MONTH & V	VEEK
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	Bisectors of angles between two planes, Combined equation of two planes, Orthogonal projection on a plane.	Equations of the plane through the given Points, Length of the perpendicular from a given point to a given plane.	UNIT: I The Plane: Equation of plane in terms of its intercepts on the axis.	4	SYLLABUS TOPIC	
	Real life Exan	aples of a	Plane in Geometry	S	ADDITIONAL I /VALUE ADDITION	
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Angle of intersection of two spheres; Conditions for two spheres to be orthogonal; Radical plane; Coaxial system of spheres. Limiting Points.	n of a sphere and angent plane; I c; Pole of a jugate points; C	The Sphere: Definition and equation of the sphere; Equation of the sphere through four given points; Plane sections of a sphere; Intersection of two spheres; Equation of a circle; Sphere through a given circle.	The length and equations of the line of shortest distance between two straight lines; Length of the perpendicular from a given point to a given line.	coplanar; Number of arbitrary constants in the equations of straight line; Sets of conditions which determine a line; The shortest distance between two lines.	UNITAL The Their liquidion of a line; Angle between a line and a plane; The condition that a given time may be in a given plane.			
Application oriented examples on The Sphere and Cones	Applications	of Sphere in Daily life	Mare	Material Provided to Smilens				
Digital class Room	Digital class Room	ICT	Teaching	E	Digital School Wood Wood			
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	Group discussio n on the Sphere		None					

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September 2 2nd Week September 4- 3nd Week 2		I st Week 2	August 4 th week		August 3 rd week	•	August 2 nd week	
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Revision	may touch a cone; Reciprocal cones; Intersection of two cones with a common vertex.	Tangent lines and tangent plane at a point.	Cones: Enveloping cone of a sphere; right circular cone: equation of the right circular cone with a given vertex, axis and semi vertical angle: Condition that a cone may have three mutually perpendicular generators.	UNIT-V	homogenous; Condition that the general equation of the	Equations of concession	Definitions of a cone; vertex; guiding curve; generators; Equation of the cone with a given vertex and guiding	
Teaching	Digital class Room	ICT	ICT	2	l(T	ions	Teaching II MID	
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NAME OF THE LECTURER: G.PRAKASAM BABU DEPARTMENT: MATHEMATICS SEMESTER: IV-A

CLASS: II BSC Paper: Real Analysis

YEAR: 2022-2023

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	3. D'-Alemberts' Test or Ratio Test. 4. Alternating Series – Leibnitz Test.	Series of Non-Negative Terms. 1. P-test 2. Cauchy's nth root test or Root Test.	convergence of series. Cauchy's general principle of convergence for series tests for convergence of series series.	Limit Point of Sequence, Subsequences, Cauchy Sequences – Cauchy's general principle of convergence theorem.	The Cauchy's criterion, properly divergent sequences. Monotone sequences, Necessary and Sufficient condition for Convergence of Monotone Sequence.	Real Sequences: Sequences and their limits, Range and Boundedness of Sequences. Limit of a sequence and Convergent sequence.	4	SYLLABUS TOPIC	
Application of Infinite Series in Real life			Application of Sequences in Real life			Si	ADDITION INPUT /VALUE ADDITIO	5	
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9 = 0 ū 12 4 5 May 2nd Week May 1" Week June 2nd Week June 3rd Week June 1st Week July 3rd Week July 2nd Week June 4th Week July 1st Week 0 6 6 6 6 6 6 6 Limits at infinity. function, Limits of functions. , Infinite Limits. Limits: Real valued Functions, Boundedness of a Continuous functions: Continuous functions Combinations of continuous functions, Continuous Functions on interval. Theorems; Rolle's Theorem, Lagrange's Theorem, Cauchy's Mean value Theorem interval, at a point, Derivability and continuity of a THEOREMS: The derivability of a function on an DIFFERENTIATION AND MEAN VALUE Graphical meaning of the Derivative, Mean value Necessary and sufficient condition for R -Riemann integral functions, Darboux theorem. RIEMANN INTEGRATION: Riemann Integral theorem of integral calculus, integrability Properties of integrable functions, Fundamental First mean value Theorem Revision Revision Application Provided material Application oriented oriented examples on Errors in examples and and properties of properties of Riemann Numerical continuous computations Integration functions Digital Digital Digital ICT& Digital Class ICT& Class room ATION-2 EXAMIN Digital Digital Class ICT& Class ICT& room Class room ICT& Teaching MID Class ICT& room room Teaching Teaching 6 6 S S 6 5-S 6 Internatio nal Yoga Day on 21.06.20 23 Group Discussion Assignm ent

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PAPER : LINEAR ALGEBRA YF AD- ۲۰۰۹ YEAR: 2022-2023

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Quotient space and Dimension of Quotient space.	Basis extension, coordinates, Dimension of a Vector space, Dimension of a subspace	UNIT II: Vector Spaces-II: Basis of Vector space, Finite dimensional Vector spaces	Linear Sum of two subspaces, linear combination of Vectors, Linear span Linear independence and Linear dependence of Vectors.	Addition and scalar multiplication of Vectors, internal and external composition, Null space, Vector subspaces, Algebra of subspaces	UNIT I: Vector Spaces-1: Vector Spaces, General properties of vector spaces, n-dimensional Vectors	4	SYLLABUS TOPIC		:G.PRAKASAM BABU :MATHEMATICS : IV-B
Material to	Material to be provided			Material to be provided			ADDITIONAL IN WALUE ADDITION	PUT	
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Characteristic Values & Vectors of square matrix, Cayley - Hamilton Theorem. and Parseval's Identity orthogonalisation process. Bessel's inequality Schwartz inequality, Triangle Inequality, Norm or length of a Vector, Euclidean and unitary spaces UNIT V: Orthogonality, Orthonormal set, Gram-Schmidt Parallelogram law Inner product space: Inner product spaces, Revision Revision Problems on cayley-hamilton theorem and Example Problems on Gramproblems on A schmidt process inverse Digital Class Digital Class Digital Class EXAMINA ICT& room TION-2 ICT& room Teaching Teaching ICT& room room MID Teaching S 6 S 6 5-S 6 Discussio 21.06.20 23 nal Yoga Day on Internatio Assignm ent

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June 1st Week

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UNIT IV:

Matrix: Linear Equations, Characteristic equations

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June 2nd Week

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May 2nd Week

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Range and null space of linear transformation, Rank and Nullity of linear transformations – Rank – Nullity Theorem.

Solved problems

transformation

Digital Class

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May 1st Week

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UNIT III:

Linear Transformations: Linear transformations, linear operators, Properties of L.T., sum and product

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June 3rd Week

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July 3rd

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July 2nd Week

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June 4th

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