

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021- 2022

ANNUAL CURRICULAR					IBSC PLAN - I (Year)								
NAME OF THE LECTURER: <u>N. Nalini</u>					CLASS: <u>IMPC-I</u>		Semester: <u>II sem</u>		Paper: <u>Solid Geometry</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date	
June	3 rd	5	Syllabus & model papers Introduction unit-I The plane: eqn of the plane in the terms of its intercepts on the axes; eqn of the plane through the given pt	-	Teaching	05	yes	-	-	-	-	-	-
			length of the line from a given point to a given plane	-	Teaching	07	yes	-	-	-	-	-	-
			bisector angle b/w two planes contained eqn of two planes	-	-	-	-	-	-	-	-	-	-
	5 th	4	Orthogonal projection on a plane unit II: - The line eqn of the line, angle b/w a line & plane	-	Teaching	04	yes	-	-	-	-	-	-
July	1 st	2	The condition that a given line may lie to a given plane; the condition	-	Teaching	02	yes	-	-	-	-	-	-

Signature of the Lecturer
N. Nalini

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S.S.L. Sabarika

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021- 2022

ANNUAL CURRICULAR					IBsc. PLAN I (Year)								
NAME OF THE LECTURER : N. Malini					CLASS : Impc-I		Semester : II Sem		Paper : Solid Geometry Mathematics paper-2				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			gives lines are coplanar	-	-	-	-	-	-	-	-	-	-
	2nd	6	No. of arbitrary constant in the eqn of straight set of conditions	-	Teaching	06	Yes.	-	-	-	-	-	-
			determine a line; the shortest distance b/w two lines	-	-	-	-	-	-	-	-	-	-
	3rd	7	The length of eqn of a line of shortest distance b/w two straight lines	-	Teaching	06	Yes	-	Class Room Seminars	1	Yes	-	-
	4th	5+2	length of the perpendicular from a given pt to a given line in 3D	Area of Triangle, Dihedral Angle	Teaching & using ppt	2+5	Yes	-	-	-	-	-	-
	5th	2+5	unit-III - the sphere Definition & eqn of the sphere through four given points	Volume of the tetrahedron.	Teaching & using ppt	2+5	Yes	-	-	-	-	-	-

Signature of the Lecturer
N. Malini

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021- 2022

ANNUAL CURRICULAR				PLAN I (Year)								
NAME OF THE LECTURER: N. Nalini				CLASS: IBSC. IMPC-I			Semester: II sem		Paper: Solid Geometry			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
August	1st	7	Plane section of sphere, intersection of two spheres, eqn of a	-	Teaching	07	Yes	-	-	-	-	-
			Circle sphere through a given circle	-	-	-	-	-	-	-	-	-
	2nd	4	Intersection of sphere & line Tangent plane, plane of contact, polar plane	-	Teaching	3	Yes	-	Assignment	1	Yes	-
	3rd	4	pole of a plane, conjugate points conjugate plane Unit - IV: spheres & cones	-	Teaching	04	Yes	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					I BSc. PLAN - I (Year)				Mathematics Paper-2				
NAME OF THE LECTURER: N. Nalini					CLASS: I MPC-I Semester: II Sem Paper: Solid Geometry								
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			Angle of intersection of two Spheres to be orthogonal, Power of a point Radical plane	-	-	-	-	-	-	-	-	-	-
	4th	6	Coaxial System of Spheres Simplified form of Eqn of two spheres	-	Teaching	06	Yes	-	-	-	-	-	-
			Definition of Cone, vertex guiding Curve, generators Eqn of a Cone with	-	-	-	-	-	-	-	-	-	-
			a given vertex & guiding curve Eqn of the second degree should	-	-	-	-	-	-	-	-	-	-
	5th	2	represent a Cone Unit-II Cone: enveloping Cone right circular	-	Teaching	02	Yes	-	-	-	-	-	-
			Cone Eqn of a right circular cone & semi vertical angle	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021- 2022

ANNUAL CURRICULAR					IBSC PLAN 8 (Year) mathematics paper-2							
NAME OF THE LECTURER N. Nalini					CLASS : 8 MPC-I		Semester : II		Paper : Solid Geometry			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Sept best	1st	3	Condition that a cone may have 3 mutually perpendicular generators.	-	Teaching	02	yes	-	QUIZ	1	yes	-
				-	-	-	-	-	-	-	-	-
	2nd	6	Intersection of a line & quadric < Cone	-	Teaching	06	yes	-	-	-	-	-
			Right line & Tangent planes at a Pt, Condition that a plane may	-	-	-	-	-	-	-	-	-
			touch the Cone, reciprocal cones	-	-	-	-	-	-	-	-	-
			Intersection of two cones with a common vertex	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

N. Nalini

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021- 20 22

ANNUAL CURRICULAR					CLASS : <u>B.Sc. PLAN II (Year)</u> <u>II M.Sc.S-II & M.ECS Semester: IV</u> Paper : <u>Mathematics</u> <u>IV-A Real Analysis</u>							
NAME OF THE LECTURER <u>P. Satya Sangeetha</u>					CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
May	1st	5	Syllabus and model paper. unit-I: Real numbers. The Algebraic and order properties of \mathbb{R} , Absolute value and Real line, completeness	-	Teaching	05	Yes	-	-	-	-	-
			property of \mathbb{R} , Applications of sup property, intervals	-	-	-	-	-	-	-	-	-
			Sequences: Sequences and their limits	-	-	-	-	-	-	-	-	-
	2nd	6	Range and boundedness of sequences, limit of sequence	-	Teaching	06	Yes	-	-	-	-	-
			and convergent sequence. The Cauchy's criterion property divergent sequences	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

Satya

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021- 2022

ANNUAL CURRICULAR					B.Sc. PLAN II (Year) Mathematics								
NAME OF THE LECTURER: P. Satya Sangeetha					CLASS: B.M.Sc.-II, B.M.E.C.S Semester: IV				Paper: IV-A-Real Analysis				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date	
June	1st	4	Monotone sequence Necessary and sufficient condition for convergent of monotone sequence	-	Teaching	03	Yes	-	-	Assignment	01	Yes	-
			Limit point of sequence	-	-	-	-	-	-	-	-	-	-
	2nd	6	Limit point of a sequence, subsequence and the Bolzano-Weierstrass theorem, Cauchy's sequences	constructive sequence	Teaching showing in ppt	06	Yes	-	-	-	-	-	-
			Cauchy's general principle of convergence theorem	-	-	-	-	-	-	-	-	-	-
	3rd	6	Cauchy's general principle of convergence theorem unit-II: Infinite series	-	Teaching	05	Yes	-	-	Assignment	01	Yes	-
			Introduction to series, convergence series, Cauchy's general principle of convergence	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer
Satya

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021- 2022

ANNUAL CURRICULAR					PLAN II (Year)								
NAME OF THE LECTURER: P. Satya Sangeetha					CLASS: B.Sc. U.M.Sc.S-II, M-MEC Semester: IV				Paper: Mathematics I A Real Analysis				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			for series tests for convergent series	-	-	-	-	-	-	-	-	-	-
June	4	6	Series of non-negative terms, P-series test, Cauchy n th root test (on) Root test	-	Teaching	06	Yes	-	-	-	-	-	-
			D'Alembert's test (on) ratio test, Alternating series	-	-	-	-	-	-	-	-	-	-
June	5 th	4	Leibnitz test Unit-III: Limits & Continuity: Limits Real valued	-	Teaching	04	Yes	-	-	-	-	-	-
			function Boundedness of a function, Limits of a function	-	-	-	-	-	-	-	-	-	-
July	1 st	2	Some Extensions of a limit concept, infinite limits, limits at infinity	-	Teaching	02	Yes	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021- 20 22

ANNUAL CURRICULAR					B.Sc. PLAN II (Year) Mathematics CLASS: II-MSC-II, II-MES Semester: IV Paper: W-A Real Analysis							
NAME OF THE LECTURER: P. Satya Sangeetha					CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Continuity: Continuous function	-	-	-	-	-	-	-	-	-
July	2 nd	3+3	I-Mid sem Exam Combinations of continuous functions on intervals	-	Teaching	03	Yes	-	-	-	-	-
	3 rd	6	unit-IV: Differentiation & Mean value theorem: The derivability of a function on an interval at a point and continuity of a	-	Teaching	06	Yes	-	-	-	-	-
			function, Graphical meaning of the derivative	-	-	-	-	-	-	-	-	-
	4 th	6	Mean value theorems: Rolle's theorem, Lagrange's theorem	-	Teaching	05	Yes	-	Quiz	01	Yes	-

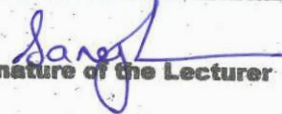
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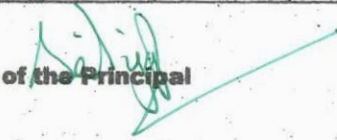
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021-2022

ANNUAL CURRICULAR					PLAN II (Year)								
NAME OF THE LECTURER: P. Satya Sangeetha					CLASS: ^{B.Sc} U-MSCS-II, II-MECS Semester: IV				Paper: ^{Mathematics} IV-A Real Analysis				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
	5th	6	Lagrange's theorem and Cauchy's mean value Theorem	L'Hospital's rule	Teaching showing in ppt	05	Yes	-		Seminar	01	Yes	-
			unit-V: Riemann integration; Riemann integral	-	-	-	-	-	-	-	-	-	-
Aug	1st	6	Riemann integral functions, Darboux theorem, Necessary and sufficient condition to R, R-integrability, properties of integrable functions	-	Teaching	06	Yes	-		-	-	-	-
				-	-	-	-	-		-	-	-	-
	2nd	4	Fundamental theorem of integral calculus, integral as the limit of a sum, mean value theorem	-	Teaching	04	Yes	-		-	-	-	-
				-	-	-	-	-		-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN II (Year)									
NAME OF THE LECTURER: S.S.L. Sabari Kumari					CLASS: B.Sc II MPCOMP - I				Semester: IV		Paper: IV(B) - Linear Algebra			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY					
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date		
May	2 nd	5	Syllabus and Model papers	-	Teaching	5	yes	-						
			Unit - I: vect ^o space	-	-	-	-	-						
			- S-I: vect ^o spaces, General properties of vect ^o spaces,	-	-	-	-	-						
			n-dimensional vect ^o spaces, addition and scalar multiplication of vect ^o spaces, inner	-	-	-	-	-						
			- product and external composition, Null space, vect ^o subspaces, Algebra of subspaces	-	-	-	-	-						
				-	-	-	-	-						
	3 rd	6	Linear sum of two subspaces, linear combination of vect ^o spaces, Linear span	-	Teaching	6	yes	-						

Signature of the Lecturer: S.S.L. Sabari k.

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN II (Year)								
NAME OF THE LECTURER: 8-8-1-Sabari Kumari					CLASS: BSc II MComp-II		Semester: IV		Paper: Mathematics IV(B)- Linear Algebra				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			Linear independence and Linear dependence of vectors.	-	-	-	-	-	-	-	-	-	-
June	1st	4	Unit-II: vector spaces, Basis of vector space, finite dimensional vector spaces, basis extension.	-	Teaching	4	Yes	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
	2nd	6	Co-ordinates, Dimension of a vector space, Dimension of a subspace.	-	Teaching	6	Yes	-	-	-	-	-	-
	3rd	6	Quotient space and Dimension of Quotient space. Unit-III: Linear transformations: Linear transformations, Linear operators, properties of L.T.	-	Teaching	6	Yes	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer: 8-8-1-Sabari k

Signature of the HOD: 8-8-1-Sabari k


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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN II (Year)											
NAME OF THE LECTURER: S.S.L. Sabari Kumari					CLASS: B.Sc BSC MPComp-II				Semester: II				Paper: A(B) - Linear Algebra			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY							
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date				
June	4th	6	Sum and product of L.T.S, Algebra of linear operators, Range & Null space of linear transformation.	-	Teaching	6	Yes	-	-	-	-	-	-			
				-	-	-	-	-	-	-	-	-	-			
	5th	4	Rank and Nullity of linear transformations - Rank-Nullity theorem	Determination of L.T. & transformation of vectors	Teaching	3	Yes	-	classroom seminar	01	Yes	-	-			
July	1st	2	Unit-IV: Matrix: Properties of matrices, inverse matrices, rank of matrix, linear equations.	-	Teaching	2	Yes	-	-	-	-	-	-			
				-	-	-	-	-	-	-	-	-	-			
	2nd	6	Linear equations in Mid Sem examinations	-	Teaching	3	Yes	-	-	-	-	-	-			

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN II (Year)								
NAME OF THE LECTURER: S.S.L. Sabari Kumari					CLASS: B.Sc IITP Comp-II		Semester: II		Paper: Mathematics IV(B)-Linear Algebra				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
July	3 rd	6	characteristic eqn -th, characteristic values & vectors of square matrix;	-	Teaching	5	yes	-	-	Quiz	01	yes	-
			Cayley-Hamilton theorem.	-	-	-	-	-	-	-	-	-	-
	4 th	6	Unit V: Inner product space: Inner product spaces, Euclidean and unitary spaces. Norm & length of a vector,	-	Teaching	6	yes	-	-	-	-	-	-
			Schwarz inequality, triangle inequality, parallelogram law.	-	-	-	-	-	-	-	-	-	-
	5 th	6	Orthogonality, orthogonal set, complete orthogonal set	-	Teaching	6	yes	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN II (Year)								
NAME OF THE LECTURER: S.S.L. Sabari kumari					CLASS: B.Sc. <u>MP Comp-II</u>			Semester: <u>II</u>		Paper: <u>Mathematics IV (B) - Linear Algebra</u>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			Gram-Schmidt Orthogonalisation process.	—	—	—	—	—	—	—	—	—	—
Aug	1st	6	Bessel's inequality and Parseval's identity.	Orthogonal complement	Teaching	6	yes	—	—	—	—	—	—

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Signature of the HOD: S.S.L. Sabari k.

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021 - 2022

Mathematics

ANNUAL CURRICULAR					III B.Sc PLAN II (Year)				Elective Paper			
NAME OF THE LECTURER: O.G.V. Sai Ditya					CLASS: III MPCSE		Semester: VI		Paper: Numerical Analysis - VIII A			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
April	4th	6	Syllabus & Model papers unit-III: Interpolation-I: Errors in polynomial	-	Teaching	06	yes	-	-	-	-	-
			Interpolation, Finite diff, forward & Backward differences, central differenc	-	-	-	-	-	-	-	-	-
	5th	6	Symbolic relations, central differences, Detection of errors	-	Teaching	06	yes	-	-	-	-	-
			by use of differences Tables	-	-	-	-	-	-	-	-	-
May	1st	5	Differences of a polynomial	-	Teaching	04	yes	-	Classroom Seminar	01	yes	-
	2nd	6	unit-IV: Interpolation-II: Newton's formulae for Interpolation,	-	Teaching	06	yes	-	-	-	-	-

Signature of the Lecturer

O.G.V. Sai Ditya

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S.S.L. Sabarika

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					IABSC PLAN III (Year)				Mathematics - Elective paper			
NAME OF THE LECTURER: O.G.V. Saranya					CLASS: III MPE-I		Semester: VI		Paper: Numerical Analysis - IIB			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
May	2nd	6	Central differences, Interpolation formulae.	-	Teaching	05	yes	-	-	-	-	-
June	1st	4	Gauss central formula, Stirling's central difference formula.	-	Teaching	04	-	-	-	-	-	-
	2nd	6	Bessel's formula & Everett's formula.	-	Teaching	06	-	-	-	-	-	-
	3rd	6	Unit-V: Interpolation-III Interpolation with unequally spaced points,	-	Teaching	05	yes	-	Assignment	01	yes	-
			Lagrange's formula, Error in Lagrange's formula, Divided diff & their properties	-	T	-	-	-	-	-	-	-
	4th	6	Relation b/w divided diff & forward diff, Relation b/w divided diff	-	Teaching	05	yes	-	-	-	-	-

Signature of the Lecturer

O.G.V. Saranya

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021 - 2022

Mathematics

ANNUAL CURRICULAR					III B.Sc PLAN III (Year)							
NAME OF THE LECTURER: <u>O. G. V. Sai Druya</u>					CLASS: <u>III MPC-I</u>			Semester: <u>VI</u>		Paper: <u>Elective paper Numerical Analysis - VIII B</u>		
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
June	4th	6	and backward differences, Relation b/w divided diff & central differences,	-	Teaching	05	yes	-	Quiz	01	yes	-
			Newton's general Interpolation formula.	-	-	-	-	-	-	-	-	-
	5th	4	Inverse Interpolation unit-I: Errors in Numerical computations;	-	Teaching	04	yes	-	-	-	-	-
			Errors & their Accuracy, Mathematical preliminaries, Errors	-	-	-	-	-	-	-	-	-
			& their Analysis, Absolute, relative & Percentage Errors.	-	-	-	-	-	-	-	-	-
July	1st	2	A general error formula, Errors in Series approximation	-	Teaching	02	yes	-	-	-	-	-

Signature of the Lecturer

O. G. V. Sai Druya

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CURRICULUM LECTURER WISE 2021-2022

ANNUAL CURRICULAR					PLAN III (Year)								
NAME OF THE LECTURER: O.G.V. Sai Divya					CLASS: III B.Sc. III mpc - I		Semester: VI		Paper: Numerical Analysis - VIII B				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
July	1st	2	Unit-II: Solutions of Algebraic & Transcendental Equations The Bisection method.	-	Teaching	02	yes	-	-	-	-	-	-
	2nd	6	The Iteration method the method of false position, 1	-	Teaching	3	yes	-	-	-	-	-	-
			Newton's-Raphson method.	-	-	-	-	-	-	-	-	-	-
	3rd	6	Generalized Newton Raphson method, 1	Ramanujan's method.	Teaching Showing in youtube	06	yes	-	-	-	-	-	-
			muller's method.	-	-	-	-	-	-	-	-	-	-

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O.G.V. Sai Divya

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S.S.I. Sabarika

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CURRICULUM LECTURER WISE 2021 - 2022

mathematics - cluster

ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER <i>M.B. RAJALAKSHMI</i>					CLASS : <i>M.B.Sc. cluster & cluster II</i>				Semester : <i>VI</i>				Paper : <i>Advanced numerical Analysis - I (B,1)</i>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY							
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date				
<i>April</i>	<i>4th</i>	<i>6</i>	<i>syllabus & model papers.</i>	-	<i>Teaching</i>	<i>6</i>	<i>yes.</i>	-	-	-	-	-	-			
			<i>unit 1: curve fitting: squares curve fitting procedure</i>	-	-	-	-	-	-	-	-	-	-			
			<i>curve fitting to fit a straight-line, non-linear</i>	-	-	-	-	-	-	-	-	-	-			
			<i>curve fitting.</i>	-	-	-	-	-	-	-	-	-	-			
	<i>5th</i>	<i>6</i>	<i>curve fitting to fit a power function $y = ax^b$</i>	-	<i>Teaching</i>	<i>6</i>	<i>yes</i>	-	-	-	-	-	-			
			<i>and sum of exponential functions.</i>	-	-	-	-	-	-	-	-	-	-			

Signature of the Lecturer *M.B. Rajal*

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN III (Year)								
NAME OF THE LECTURER: <u>M. B. RAJYALAKSHMI</u>					CLASS: <u>III B.Sc. cluster 2nd</u>			Semester: <u>VI</u>		Paper: <u>mathematics - cluster. Advanced Numerical Analysis. (VMB)</u>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
May	2 nd	5	unit-II : Numerical Differentiation : derivatives using	-	Teaching	5	Yes	-	-	-	-	-	-
			Newton Forward & Backward difference formula	-	-	-	-	-	-	-	-	-	-
			derivatives using central difference formula.	-	-	-	-	-	-	-	-	-	-
	3 rd	6	divided difference formula, maximum & minimum of	-	Teaching	6	Yes	-	-	-	-	-	-
			a tabulated functions Error in numerical	-	-	-	-	-	-	-	-	-	-
			differentiation.	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer
M.B. Rajyalakshmi

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CURRICULUM LECTURER WISE 2021- 2022

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: M. B. RAJA LAKSHMI					CLASS: III B.Sc. Cluster			Semester: VI		Paper: mathematics-cluster IAB, Advanced Numerical Analysis			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
June	1 st	4	Unit-III: Numerical Integration; numerical integration	-	Teaching	4	Yes	-	-	-	-	-	-
			General quadrature formula, trapezoidal rule	-	-	-	-	-	-	-	-	-	-
	2 nd	6	Simpson's $\frac{1}{3}$ rule & Simpson's $\frac{3}{8}$ rule	-	Teaching	6	Yes	-	-	-	-	-	-
			Coxs rule.	-	-	-	-	-	-	-	-	-	-
	3 rd	6	Euler macLaurin formula of	Boole's rule	Teaching & showing in ppt	6	Yes	-	-	-	-	-	-
			summation & quadrature, Error in general quadrature formula	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer: M. B. Raja

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN <u>III</u> (Year)								
NAME OF THE LECTURER <u>M.B. RAJYA LAKSHMI</u>					CLASS : <u>M.B.Sc. cluster-II Semester: <u>VI</u></u>				Paper <u>mathematics - cluster</u> <u>III B, Advanced Numerical Analysis</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			Euler transformation,	-	-	-	-	-	-	-	-	-	-
June	4 th	6	<u>unit-IV</u> ! Solution of simultaneous linear system of equations.	-	Teaching	5	yes	-	-	classroom seminar	1	yes	-
			Sol. of linear systems - Direct methods, matrix	-	-	-	-	-	-	-	-	-	-
			Inverse method, crammer's rule, Gauss elimination	-	-	-	-	-	-	-	-	-	-
			method, Gauss-Jordan method	-	-	-	-	-	-	-	-	-	-
	5 th	4	Factorisation method,	-	Teaching	4	yes	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2021- 2022

ANNUAL CURRICULAR					PLAN <u>11</u> (Year)											
NAME OF THE LECTURER <u>M. B. Raja Lakshmi</u>					CLASS: <u>10 B.Sc. cluster 2</u>				Semester: <u>31</u>				Paper: <u>mathematics - cluster VVA B1 Advanced Numerical Analysis</u>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY							
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date				
			Iteration methods: Jacobi's method, Gauss seidal method	-	teaching	-	-	-	-	-	-	-	-			
			solution of tri-diagonal system.	-	-	-	-	-	-	-	-	-	-			
July	1st	2	contin ^g numerical solution of ordinary differential equations.	-	teaching	1	yes	-	Quiz	yes	-	-	-			
			introduction, solution by Taylor's series method.	-	-	-	-	-	-	-	-	-	-			
	2nd	3	Euler's method, modified Euler's method, Runge-Kutta methods	-	teaching	3	yes	-	-	-	-	-	-			
			mid examination.	-	-	-	-	-	-	-	-	-	-			

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN III (Year)											
NAME OF THE LECTURER <i>m. B. Rajya lakshmi</i>					CLASS: <i>III B.Sc. cluster - 2nd II</i>				Semester: <i>VI</i>				Paper: <i>mathematics - cluster</i> <i>MHB, Advanced Numerical Analysis</i>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY							
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date				
	<i>3rd</i>	<i>6</i>	<i>Runge-kutta methods and</i>	<i>-</i>	<i>teaching</i>	<i>5</i>	<i>yes.</i>	<i>-</i>	<i>Assignment</i>	<i>1</i>	<i>yes</i>	<i>-</i>				
			<i>picard's method of successive approximation</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>				

Signature of the Lecturer *m. B. Rajya lakshmi*

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN III (Year)								
NAME OF THE LECTURER: <u>D. Tejaswini</u>					CLASS: <u>TU BSC - cluster II</u> Semester: <u>VI</u>				Paper: <u>Mathematics - cluster - VIII B₂</u> <u>Special functions</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
April	4 th	6	Syllabus & model paper unit I: Hermite polynomials Hermite differential Equations Solution of Hermite Equations	-	Teaching	6	yes	-	-	-	-	-	-
			Hermite polynomials generating function	-	-	-	-	-	-	-	-	-	-
	5 th	6	other forms of Hermite polynomial, to find first few Hermite polynomials orthogonal properties of	-	Teaching	6	yes	-	-	-	-	-	-
			Hermite polynomials recurrence formulae for Hermite polynomials	Legendres duplication formula	Teaching & showing ppt	-	-	-	-	-	-	-	-
May	2 nd	5	Unit-II: Laguerre's Polynomials. Laguerre's differential Equation. solution of	-	Teaching	4	yes	-	-	classroom set	01	yes	-
			Laguerre's equation Laguerre's polynomials -al, generating function	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer
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CURRICULUM LECTURER WISE 2021- 2022

ANNUAL CURRICULAR					PLAN III (Year)				Mathematics - cluster - VIII B ₂			
NAME OF THE LECTURER					CLASS : III BSc - cluster I				Semester : VI			
NAME OF THE LECTURER					Paper : Special functions				CO-CURRICULAR ACTIVITY			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Other forms of Laguerre's polynomials.	-	-	-	-	-	-	-	-	-
	3rd	6	To find the first few Laguerre's polynomials, orthogonal property of the Laguerre's polynomials, recurrence formula for Laguerre's polynomials	-	Teaching	6	yes	-	-	-	-	-
			associated Laguerre's equation unit-III: Legendre's equation: Def, solution of Legendre's Eq. Def of $P_n(x)$, $Q_n(x)$.	-	-	-	-	-	-	-	-	-
June	1st	4	general solution of Legendre's equation. To show that $P_n(x)$ is the coefficient of x^n in	-	Teaching	4	yes	-	-	-	-	-
			the expansion of $(1-2xh+h^2)^{-1/2}$	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

D. Tejaswi

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S.S.L. Sabarika

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN III (Year)								
NAME OF THE LECTURER: D. Tejaswini					CLASS: III BSC+ Cluster II		Semester: VI		Paper: Mathematics - cluster VIII B ₂ Special functions				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
June	2 nd	6	orthogonal properties of legendre's equation recurrence formulae	-	Teaching	6	yes	-	-	-	-	-	-
			Rodrigues formula problems on legendre's equation.	-	-	-	-	-	-	-	-	-	-
	3 rd	6	problems on legendre's equation. unit IV: Bessel's Equation.	-	Teaching	5	yes	-	Quiz	1	yes	-	-
			Definition, solution of Bessel's general differential Equation.	-	-	-	-	-	-	-	-	-	-
	4 th	6	general solution of bessel's equation. integration of bessel's Equation in series	-	Teaching.	5	yes	-	Assignment	1	yes	-	-
			for $n=0$, definition of $J_n(x)$. recurrence formulae for $J_n(x)$. generating function $\sum_{n=0}^{\infty} J_n(x) t^n = e^{-xt} \sqrt{1-x^2}$	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

D. Tejaswini

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S.S.L. Sabarika

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN III (Year)							
NAME OF THE LECTURER: D. Neelavathi					CLASS: III BSc cluster II			Semester: VI		Paper: Mathematics - cluster III B ₂ Special functions		
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
June	5 th	4	problems on Bessel's Equation	-	Teaching	4	yes	-	-	-	-	-
July	1 st	2	problems on Bessel's Equation	-	Teaching	2	yes	-	-	-	-	-
	2 nd	6	unit V: Beta & gamma functions: Euler's integrals - B & Γ functions, elementary properties of Γ function.	-	Teaching	6	yes	-	-	-	-	-
			⊥ Mid-Sem Examination	-	-	-	-	-	-	-	-	-
	3 rd	6	Transformation of gamma function, another form of beta function,	-	Teaching	6	yes	-	-	-	-	-
			Other transformations.	-	-	-	-	-	-	-	-	-

Signature of the Lecturer
D. Neelavathi

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