

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER					CLASS : I - M.Sc. Organic chemistry				Semester : I				Paper : I - General chemistry			
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				
	3 rd	4h	Basic postulates of Quantum mechanics	—	—	—	—	—	—	—	—	—	—	—		
			1,2,3,4,5 postulates in detail. Simultaneous measurement	—	—	—	—	—	—	—	—	—	—	—		
			of properties and the Heisenbergs uncertainty principle	—	—	—	—	—	—	—	—	—	—	—		
	4 th	4h	<u>unit-II</u> wave mechanics of simple systems with constant potential energy - particle in one Dimensional box.	—	—	—	—	—	—	—	—	—	—	—		
			factors influencing color transition.	—	—	—	—	—	—	—	—	—	—	—		
			dipole moment integral	—	—	—	—	—	—	—	—	—	—	—		

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B.V. Prudhima
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NAME OF THE LECTURER					CLASS : I M.Sc. Organic Chem Semester : I				Paper : I - General chemistry					
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		
Dec	1 st	2h	Unit - I Schrodinger wave equation, interpretation of wave function 'ψ'	List out the differential equations and logarithm formulas - Differential for-	-	-	-	-	-	-	-	-	-	-
	2 nd	4h+1h	properties of wave function - Normalisation and ortho-	gonalisation - formulas. sin and cos values for different degrees	-	-	-	-	-	-	-	-	-	-
			gonalisation - operators : linear, non-linear, commutator operators, Hermitian operator and its properties. Eigen values and Eigen functions, setting up of operators to observables	-	-	-	-	-	-	-	-	-	-	-
										Seminar	1	Yes		

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>B. Ramadevi</u>					CLASS: <u>I M.Sc. Organic Chemistry</u> Semester: <u>I</u>				Paper: <u>I - General chemistry</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	
			symmetry arguments in deriving the selection rules										
	5 th	4h	The concept of tunneling - particle							Assignment	1	Yes	
			in three dimensional box - wave function, Eigen values,										
			orthogonality Normalisation conditions										
Jan	1 st	4h	Rigid rotator : classical and quantum mechanical treatment	How the Cartesian co-ordinates (x,y,z)									
			wave function and its eigen values	transform into spherical polar coordinates (r,θ,φ)									

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ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: K. Ramadevi					CLASS: I M.Sc. Organic Chemistry Semester: I				Paper: I - General Chemistry			
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
			wave mechanics of systems with variable potential energy	-	-	-	-	-	-	-	-	-
			-simple harmonic oscillator :- solution of S.W. Equation	-	-	-	-	-	Seminar	1	Yes	-
			selection rules energy level diagram	-	-	-	-	-	-	-	-	-
	2 nd	2h	Unit - III Introduction to spectroscopy and different types of spectroscopies	-	-	-	-	-	-	-	-	-
	3 rd	2h	Rotational spectra of diatomic molecules rigid rotator	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: K. Ramadevi					CLASS: I M.Sc. Organic Chem Semester: I				Paper: I - General Chemistry				
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	
			Selection rules Energy level diagram										
	4 th	4h	calculation of bond lengths, Isotopic effect, Second order Stark effect and its applications							Assignment	1	Yes	
			IR spectra of diatomic molecules - harmonic oscillator	Applications of Harmonic and Anharmonic oscillator.									
			Selection rules, Def. of Anharmonic oscillator										
	5 th	1h	Anharmonic oscillator Selection rules Energy level										

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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	
			diagram, fundamental frequency, 1 st , 2 nd overtones.	—	—	—	—	—	—	—	—	—	—
Feb	1 st	3h	combination and difference bands	—	—	—	—	—	—	—	—	—	—
			Fermi Resonance with example. cal of force constant, anharmonicity constant.	—	—	—	—	—	—	Seminar	1	Yes	—
			simultaneous vibrational-rotational spectra of diatomic molecules (PQR spectrum) selection rules	—	—	—	—	—	—	—	—	—	—

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <i>K. Ramadevi</i>					CLASS: <i>I M.Sc Organic chemistry</i> Semester: <i>I Sem</i> Paper: <i>I - General chemistry</i>				CO-CURRICULAR ACTIVITY				
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>Unit - IV</i> <i>types of electronic transitions in organic molecules</i>	-	-	-	-	-	-	-	-	-	-
			<i>Examples.</i>	-	-	-	-	-	-	-	-	-	-
	<i>3rd</i>	<i>4h</i>	<i>Raman spectra: stokes, anti-stokes lines, Raman shift</i>	-	-	-	-	-	-	-	-	-	-
			<i>classical and quantum mechanical</i>	-	-	-	-	-	<i>Seminar</i>	<i>1</i>	<i>Yes</i>	-	-
			<i>treatment of Raman effect. Which type of molecules exhibit</i>	-	-	-	-	-	-	-	-	-	-
			<i>Raman spectra and what are necessary conditions</i>	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER: K. Ramadevi					CLASS: I M.Sc. Organic Chemistry Semester: I sem Paper: I - General chemistry				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
	4 th	4h	Rotational Raman and vibrational	Applications of pure Raman,	-	-	-	-	-	-	-	-
			Raman spectra. charge transfer spectra with	Rotational & vibrational Raman spectroscopy	-	-	-	-	-	-	-	-
			examples. Introduce to electronic spectroscopy	-	-	-	-	-	Assignment	1	Yes	-
	5 th	1h	Franck-Condon principle: diagrams statement, explanation	-	-	-	-	-	-	-	-	-
Mar	1 st	2h	Vibrational coarse structure, diagram	-	-	-	-	-	-	-	-	-
			selection rules Spectrum.	-	-	-	-	-	-	-	-	-

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NAME OF THE LECTURER: <i>K. Ramadevi</i>					CLASS: <i>I M.Sc. Organic chemistry</i> Semester: <i>I</i>				Paper: <i>I - General chemistry</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>2nd</i>	<i>4h</i>	<i>Rotational fine structure - Definition, Derivation,</i>	-	-	-	-	-	-	-	-	-	-	-
			<i>Band-Head Def Band-shading Band-origin</i>	-	-	-	-	-	-	-	-	-	-	-
			<i>Total spectrum, s.R diagram with explanation</i>	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: V. RAJA RAJESWARI					CLASS: IMSC.		Semester: I		Paper: II - Inorganic Chemistry				
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	
Dec	1	4	Introduction - Structure & Bonding - Applications of VSEPR, Valence bond	Explanation of simple molecules M.O diagrams	-	-	-	-	-	-	-	-	-
			Theory and Molecular orbital theory in explaining the structure of simple molecules	calculation of Bond order.	-	-	-	-	-	-	-	-	-
	2	4	role of P and d orbitals in π bonding. Applications of MO theory to Tetrahedral, Octahedral, square planar, $[PtCl_4]^{2-}$	Magnetic behaviour of complexes	-	-	-	-	-	-	-	-	-
	3	4	Octahedral Complex $[CoF_6]^{3-}$, $[Co(NH_3)_6]^{3+}$	-	-	-	-	-	-	-	-	-	-
	4	4	Classification of ligands based on π -bonding using	-	-	-	-	-	seminar	1	Yes	-	-
			MO theory. Walsh diagram for H_2O molecule.	-	-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER					CLASS :	Semester :	Paper : II - Inorganic Chemistry					
					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
Jan	1	4	Inorganic cage and ring compounds - Preparation structure & reactions of boranes	Explanation of teta boranes and	-	-	-	-	-	-	-	-
	2	2	carboranes, metallo carboranes Electron counting in boranes - wades rule	penta boranes.	-	-	-	-	-	-	-	-
	3											
	4	2	Heterocyclic inorganic ring systems: Boron - Nitrogen ($B_3N_3H_3$)		-	-	-	-	-	-	-	-
	5	4+2	phosphorus - Nitrogen ($N_3P_3Cl_6$) and Sulphur - Nitrogen (S_4N_4) cyclic compounds.		-	-	-	-	Assignment	1	Yes	-
			Cage compounds - phosphorus oxides and phosphorus sulphides Isopoly & heteropoly anions.		-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 20²²-2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: V. RAJA RAJESWARI					CLASS: I MSc		Semester: I		Paper: II - Inorganic chemistry				
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	
Feb	1	2	Coordination Compounds - Crystal field theory - crystal field splitting patterns in octahedral, tetrahedral, tetragonal, square planar, square pyramidal and trigonal bipyramidal geometries.	Definitions of the terms used in	-	-	-	-	-	-	-	-	-
	2	3	Coordination chemistry Sidwick's EAN rule		-	-	-	-	-	-	-	-	-
	3	4	formation of CFSE, factors affecting CFSE - Spectrochemical series		-	-	-	-	-	-	-	-	-
	4+2	4	Jahn-Teller effect, nephelauxetic effect - ligand field theory		-	-	-	-	Seminar	1	Yes	-	-
			Term symbols - Russell-Sanders coupling - derivation		-	-	-	-	-	-	-	-	-
			of term symbols for various configurations. Spectroscopic ground states.		-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER: <u>N. RATA RAJESWARI.</u>					CLASS: <u>IMSC</u>		Semester: <u>I</u>		Paper: <u>II - Inorganic chemistry</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
Mar	1	3	Electronic spectra of transition metal complexes - Types of electronic transition	Explanation of transition metals and	-	-	-	-	Assignment	1	Yes	-
			- d-d transitions - selection rules, break down of selection rules - Orgel and T-S diagram	various oxidation states	-	-	-	-	-	-	-	-
	2	4	for d ¹ -d ⁹ octahedral and tetrahedral transition metal complexes of 3d series.	-	-	-	-	-	-	-	-	-
	3	4	calculation of Dq, B & β parameters. charge transfer spectra.	-	-	-	-	-	-	-	-	-
			Magnetic properties of transition & inner transition metal complexes - spin and orbital moments - quenching of orbital momentum by crystal fields in complexes.	-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 20²² - 2023

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER : P. RAMYA KRISHNA					CLASS : I.M.Sc (009)		Semester : I		Paper : III <i>organic chemistry</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	
December	1 st	3hrs	preparation and properties of quinoline	uses of quinoline	-	-	-	-	-	-	-	-	-
			preparation and properties of isoquinoline	uses of isoquinoline	-	-	-	-	-	-	-	-	-
	2 nd	4hrs	Electronic effect and reactive intermediates, meso meric effects, Hyper conjugation, steric effect, Tautomerism	-	-	-	-	-	-	-	-	-	-
			reactivity of carbocations and carbanions	-	-	-	-	-	-	-	-	-	-
			preparation and properties of pyrazole	uses of pyrazole	-	-	-	-	-	-	-	-	-
			preparation and properties of oxazole	uses of oxazole	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: K. SUJATHA P. RAMYA KRISHNA					CLASS: IMSc (org)		Semester: I		Paper: III (organic chemistry)				
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	
	3 rd	1 hrs	properties and synthesis of Isooxazole and pyrazole	uses of pyrazole	-	-	-	-	-	-	-	-	-
			synthesis and properties of Imidazole,	-	-	-	-	-	-	-	-	-	-
			pyridazine, pyrimidine, pyrazine	-	-	-	-	-	-	-	-	-	-
	11 th	3 hrs	reactivity of free radicals, carbene, nitrenes & azynes	-	-	-	-	-	-	-	-	-	-
			criteria for Aromaticity, Huckel's rule & MO theory, aromaticity	will be shown No theory of Aromaticity	-	-	-	-	-	-	-	-	-
			in benzenoid & non benzenoid compounds in charged and fused ring systems	PPT presentation	-	-	-	-	Assignments on Aromaticity	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS :	Semester :	Paper :						
K. SUJATHA P. RAMYA KRISHNA					IMSc (089)	I	III (Organic chemistry)						
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	
January	1 st	4 hrs	Hetero aromatic system, Annulenes, cyclobutadiene,	-	-	-	-	-	-	-	-	-	-
			Benzene 1, 3, 5- cyclooctatetraene [10] Annule - [12],	-	-	-	-	-	-	-	-	-	-
			[14], [16] and [18] fulvenes, sulfoxanes, pentalene, anti aromaticity	structures and uses of sulfoxanes	-	-	-	-	-	-	-	-	-
	2 nd	2 hrs	synthesis of Atropine, Nicotine	-	-	-	-	-	-	-	-	-	-
			and Quinine isolation and their structure elucidation	-	-	-	-	-	-	-	-	-	-
3 rd	1 hr	synthesis and biogenesis of α -terpenol	uses of α -terpenol	-	-	-	-	-	-	-	-	-	

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NAME OF THE LECTURER : K. SUJATHA P. RAMYA KRISHNA					CLASS : IMSc (089)		Semester : I		Paper : III (Organic chemistry)				
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	3 rd	4hrs	Inductive Mesomeric effect, Hyper conjugation, steric effect,	Inductive effect applications	-	-	-	-	-	-	-	-	-
			Tautomerism, reaction intermediates	-	-	-	-	-	student seminar on aromaticity	01	yes	-	-
	4 th	4hrs	synthesis and biogenesis of α -terpenol,	-	-	-	-	-	-	-	-	-	-
			α -pinene and Camphor	uses of camphor	-	-	-	-	-	-	-	-	-
February	1 st	4hrs	molecular symmetry and chirality, symmetry elements, classification of stereoisomers Enantiomers	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	Debate on Enantiomers and Diastereomers	01	yes	-	-

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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	
			and faces Stereoisomerism in molecules without	-	-	-	-	-	-	-	-	-	-
			chiral center Axial chirality Alkenes Alkyldiene & cyclo	-	-	-	-	-	-	-	-	-	-
	3 rd	3hrs	alkenes, Atrop isomerism, Bi phenyl derivatives	-	-	-	-	-	-	-	-	-	-
			Planar chirality Ansa compounds trans cyclooctene and Helicity	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

K. Supal
Signature of the Lecturer

P. Ranga Krishna

B. V. Prasad
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Head of the Department
M.Sc. Organic Chemistry
Sir C. R. E. College for Women
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: K. Ramadevi					CLASS: I M.Sc. Organic Chemistry			Semester: I		Paper: IV Physical chemistry				
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		
Dec	1 st	2h	Unit-1 Introduction to Thermodynamics	Basic terms used in TD	-	-	-	-	-	-	-	-	-	
			concept of partial molar properties	& their symbols Relations among	-	-	-	-	-	-	-	-	-	
	2 nd	4h	Partial molar volume and its significance.	Various thermodynamic properties.	-	-	-	-	-	-	-	-	-	-
				Determination of partial molar volume by	-	-	-	-	-	Assignment	1	Yes	-	-
				Graphical method derivation, Intercept	-	-	-	-	-	-	-	-	-	-
				method - derivation, apparent molar volume method.	-	-	-	-	-	-	-	-	-	-

K. Ramadevi
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: K. Ramadevi					CLASS: I M.Sc. Organic Chemistry Semester: I				Paper: IV - Physical Chemistry					
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		
	3 rd	4h	Partial molar free energy - chemical potential, Variation of μ with T and P.		-	-	-	-	-	-	-	-	-	-
			Gibbs Duhem eq ⁿ derivation, significance		-	-	-	-	Seminar	1	Yes	-	-	-
			Phase equilibria & derivation of Gibbs phase rule. Ideal & non-ideal solutions		-	-	-	-	-	-	-	-	-	-
			Thermodynamic pro's of mixing of ideal sol's		-	-	-	-	-	-	-	-	-	-
	4 th	4h	Vapour pressure - Raoult's law and		-	-	-	-	-	-	-	-	-	-
			Henry's law - concept of fugacity and activity, its coefficient		-	-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: K. Ramadevi					CLASS: I M.Sc. Organic Chemistry				Semester: I		Paper: IV - Physical chemistry			
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		
			Determination of fugacity. Determination of activity coefficient from vapour pressure method and Gibbs-Duhem equation.	-	-	-	-	-	-	-	-	-	-	
			chemical equilibrium - Van't Hoff isotherm Van't Hoff isochore	-	-	-	-	-	-	-	-	-	-	
	5 th	4h	<u>Unit-II</u> Surface active agents classification of S.A.A.	-	-	-	-	-	-	Assignment	1	Yes	-	
			Definition of micelles and macromolecules. micellisation.	-	-	-	-	-	-	-	-	-	-	
			Hydrophobic interaction, critical micelle concentration (CMC)	-	-	-	-	-	-	-	-	-	-	

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER: <i>K. Ramadevi</i>					CLASS: <i>I M.Sc. Organic Chemistry</i>				Semester: <i>I</i>				Paper: <i>IV - Physical Chemistry</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>factors affecting the CMC of surfactants, thermodynamics of micellisation.</i>													
<i>Jan</i>	<i>1st</i>	<i>4h</i>	<i>phase separation and mass-action models, solubilisation</i>	<i>Definitions of phase, number of components</i>												
			<i>Micro emulsion, reverse micelles</i>							<i>Seminar</i>	<i>1</i>	<i>Yes</i>				
			<i>Polymers - definition, types of polymers, polymerisation - classification, electrical conductivity, fibre resistant, liquid.</i>	<i>Examples of different types of polymerical</i>												

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: K. Ramadevi					CLASS: 2 M.Sc. Organic chemistry			Semester: 2		Paper: IV - Physical chemistry			
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	
			crystal polymers	-									
	2 nd	2h	Number and weight average molecular weights definition	-						Assignment	1	Yes	
			molecular weight determination by osmometry, viscometry	-									
	3 rd	2h	M.w. determination by ultracentrifugation	-									
			method, light scattering methods.	-									
	4 th	4h	Unit-III Introduction to chemical kinetics	-									

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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)												
NAME OF THE LECTURER					CLASS : <u>I M.Sc. Organic chemistry</u>				Semester : <u>I</u>					Paper : <u>IV Physical chemistry</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					
			Theories of react rates collision theory - limitations, derivation	Definitions of rate of react rate const.													
			Transition state theory: Thermodyn and statistical	& the mathematical expressions for 1 st , 2 nd													
			derivation of rate constants - Definition of ionic strengths	and 3 rd order reactions.								Assignment	1	Yes			
			Debye-Huckel theory:-explanation														
	5 th	1h	Primary and secondary salt effects														
Feb	1 st	3h	Double sphere model: effect of dielectric const														

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>K. Ramadevi</u>					CLASS: <u>I M.Sc. Organic chem</u> Semester: <u>I</u>				Paper: <u>IV - Physical chemistry</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	
			effect of substituents Hammett eq ⁿ limita- -tions, Taft equation	-	-	-	-	-	-	-	-	-	-
	2 nd	4h	Rate constants of consecutive react ⁿ parallel reactions	-	-	-	-	-	-	Seminar	1	Yes	-
			opposing reactions. General and specific	-	-	-	-	-	-	-	-	-	-
			Acid-Base catalysis. Skraabøl diagram. Fast reactions.	-	-	-	-	-	-	-	-	-	-
			flow methods for studying fast react ⁿ s	-	-	-	-	-	-	-	-	-	-
	3 rd	4h	Relaxation methods : Temperature jump and pressure	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>K. Ramadevi</u>					CLASS: <u>I M.Sc. Organic chem</u> Semester: <u>I</u>				Paper: <u>IV - Physical chemistry</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	
			Jump methods. <u>Unit - IV</u>		-	-	-	-					
			Introduction to photochemistry.	Definitions of fluorescence,	-	-	-	-					
			Francck - Condon principle. Singlet Triplet states.	phosphorescence and their applications	-	-	-	-					
	4 th	4h	spin-orbit interaction. Quantum yield, reasons for low and high Q.Y		-	-	-	-					
			Experimental determination. Actinometer - ferrioxalate and		-	-	-	-					

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>K. Ramadevi</u>					CLASS: <u>IM.Sc. Organic chem</u>			Semester: <u>I</u>		Paper: <u>IV - Physical chemistry</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	
			Uranyl oxalate actinometers	-	-	-	-	-	-	-	-	-	-
	5 th	1h	Derivation of fluorescence and phosphorescence Quantum yields.	-	-	-	-	-	-	-	-	-	-
Mar	1 st	2h	Quenching effect Stern-volmer eq ⁿ .	-	-	-	-	-	-	-	-	-	-
			Derivation, s.v. constant, deviations	-	-	-	-	-	-	-	-	-	-
	2 nd	4h	Delayed fluorescence :- E-Type & P-Type	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022 - 2023
PLAN (Year)

ANNUAL CURRICULAR

NAME OF THE LECTURER

CLASS :

Semester :

Paper :

CO-CURRICULAR ACTIVITY

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	
			Types of photo chemical reactions	—									
			Photodissociation & photofragmentation	—									
			Photo addition reactions and Isomerisation reactions mechanisms with examples	—									

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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER : J. Durga					CLASS : II Msc. Organic chem. Semester : III				Paper : I (ORM & pericyclic rxns)					
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		
Nov	2 nd	5h	Unit-I NGip by Bromine, phenyl, σ , π , cyclopro	Definition of NGip and its types.	-	-	-	-	-	-	-	-	-	-
			-pyl group, SN at allylic carbon	definition of	-	-	-	-	-	-	-	-	-	-
Nov	3 rd	4h	SN at aliphatic trigo- nal carbon, vinylic	electrophile, Nucleophile	-	-	-	-	Seminar	1hr	Yes	-	-	-
			Carbon, Ambident nucleophiles, Hyd.	and their uses in the	-	-	-	-	-	-	-	-	-	-
			of esters	reactions.	-	-	-	-	-	-	-	-	-	-
Nov.	4 th	5h	Mech. of esterificat ⁿ of COOH with DCC,	-	-	-	-	-	-	-	-	-	-	-

J. Durga
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2021-2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS : <u>II M.Sc. Organic Chem</u> Semester : <u>II</u>				Paper : <u>I (ORM & Polycyclic sea^{ns})</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	
			Mayer's syn. of ald, ketones & COOH	-	-	-	-	-	-	-	-	-	-
			Mitsunobu sea ⁿ , Von, Braun sea ⁿ	-	-	-	-	Assignment	1hr	yes	-	-	-
(Nov)	I	4 hr	SE ² , SE ¹ , SE ⁱ , +i as electrophile,	Discussion of electrophile,	-	-	-	-	-	-	-	-	-
			Migration of double bonds, N ^e	Nucleophile substitution	-	-	-	-	-	-	-	-	-
	II	5 hr	Halogen e ⁻ ald & ketones, sulphoxides	& elimination reactions.	-	-	-	-	-	-	-	-	-
			& sulphones, Diazo coupling, Diazo trans	with their applications.	-	-	-	seminar	1hr	yes	-	-	-

J. Durga
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: <u>J. Durga</u>					CLASS : <u>II-MSC org. chem.</u> Semester: <u>III</u>				Paper : <u>I (ORM & pericyclic reac^{ns})</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		
			rea ⁿ , Decarboxylation of aliphatic	-	-	-	-	-	-	-	-	-	-	-
			acids, Dakin west, Haller Bauer sea ⁿ .	-	-	-	-	-	-	-	-	-	-	-
Dec	<u>III</u>	4h.	Unit-II Topicity & Nomen	Introduction of stereochemi	-	-	-	-	Assignment	1hr	yes	-	-	-
			-closure rules. Analytical methods	-stry, Symmetry, Asymmetry.	-	-	-	-	-	-	-	-	-	-
Dec.	<u>IV</u>	5h	Stereoselectivity, e.e.%, D.e.i.,	Asymmetric induction &	-	-	-	-	-	-	-	-	-	-
			optical purity, specific rotation.	types, uses.	-	-	-	-	-	-	-	-	-	-

J. Durga
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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: J. Durga					CLASS: <u>II MSc (Organic chemistry)</u> Semester: <u>III</u>				Paper: <u>I (ORM & pericyclic reactions)</u>			
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
Dec	<u>i</u>	2 h	Chiral NMA, solvent reagents, type &	chemoselectivity & Regio selectivity	-	-	-	-	-	-	-	-
			Chiral derivatizing agents.	-	-	-	-	-	seminar	1hr	yes	-
Jan	<u>I</u>	4h	Revision for <u>I</u> MID exams	-	-	-	-	-	-	-	-	-
Jan	<u>ii</u>	5h	<u>I</u> MID exams	-	-	-	-	-	-	-	-	-
Jan	<u>iii</u>	4h	unit- <u>iii</u> Mol. orbital symmet-ry.	Introduction of pericyclic	-	-	-	-	-	-	-	-
			fMO of ethylene, 1,3 Butadiene	reactions and their types.	-	-	-	-	Assignment	1hr	yes	-

J. Durga
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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER					CLASS :				Paper :			
J. Durga					II. MSc. org.chem				Semester : III			
					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
Jan	I	5h	1,3,5 hexatriene, allyl system, 4n	and how they are	-	-	-	-	-	-	-	-
			& 4n+2 electrocyclic sear's	formed with some examples	-	-	-	-	-	-	-	-
Feb	I	4hr	Cycloaddition lead ^{ng} (2+2) addition of	-	-	-	-	-	seminar	1hr	yes	-
			ketenes, allyl system	-	-	-	-	-	-	-	-	-
Feb	II	5hr	Chelotropic sear's	-	-	-	-	-	-	-	-	-
			Suprafacial, Antifa-	-	-	-	-	-	-	-	-	-
			facial terms, Woodward rules.	-	-	-	-	-	-	-	-	-

J. Durga
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: J. Durga					CLASS: II MSc (Organic chemistry) Semester: III				Paper: I (ORM & pericyclic reac ^{ns})			
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
Feb	III	4h	Unit-IV PMO & FMO	Introduction of types of rotations & shifts	-	-	-	-	Seminars	1hr	yes	-
			sigmatropic shifts	Explanation of (1,3), (1,5) shifts.	-	-	-	-				
Feb	IV	5h	3 Named reactions Claisen, cope, Barton, Carbon moieties.	Diels, Alder reaction.	-	-	-	-				
					-	-	-	-				
					-	-	-	-				
Mar	I	4hr	(Revi) II MID exams		-	-	-	-				
Mar	II	5h	Revision of Q.P.		-	-	-	-				

J. Durga
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022-2023

(Organic Spectroscopy)

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY				
NAME OF THE LECTURER: Dr. B. Valli Purnima					CLASS: II M.Sc. Org. Chem	Semester: II	Paper: II						
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	
			UNIT-I										
Nov	2 nd	4hr	① Calculation of λ_{max} Values using wood ward fisher rules		-	-	-	-	-	-	-	-	
Nov	3 rd	4hr	λ_{max} Values using woodward fisher rules		-	-	-	-	Seminar	1hr	yes	-	
			② applications, solvents effects, geometrical isomerism		-	-	-	-	-	-	-	-	
			③ Calculation of λ_{max} Values using wood ward fisher rules		-	-	-	-	-	-	-	-	
			acid & base effects		-	-	-	-	Assignment	1hr	yes	-	
			④ Beer-Lambert's law-Instrumentation		-	-	-	-	-	-	-	-	
Nov	4 th	4hr	Energy transitions Chromophores -AUXO -chrome.		-	-	-	-	-	-	-	-	

B. V. Purnima
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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)				Paper <u>II Organic Spectroscopy-I</u>				
NAME OF THE LECTURER <u>Dr. B. Valli Purnima</u>					CLASS : <u>II M.Sc</u>				Semester : <u>III</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	
			Absorption shifts. C.V absorption of Alkenes - polyenes		-	-	-	-	-	-	-	-	-
			<u>UNIT-II</u> ① Fundamental modes of vibrations, factors effecting vibrational freq.		-	-	-	-	-	-	-	-	-
<u>Dec</u>	<u>1st</u>	<u>4hrs</u>	Hydrogen Bonding, mechanics of measurement		-	-	-	-	-	<u>Seminar</u>	<u>1hr</u>	<u>yes</u>	-
	<u>2nd</u>	<u>4hrs</u>	② Fingerprint region importance, typical group freq's -CH, -OH, N-H, C=O and aromatic systems - Applications		-	-	-	-	-	-	-	-	-
	<u>4th</u>	<u>5hrs</u>	IR - structural determination - Examples		-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <i>Dr. B. Valli Purima</i>					CLASS: <i>II M.Sc</i> Semester: <i>III</i> Paper: <i>II, Organic Spectroscopy-II</i>							
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
			IR - Simple problems		-	-	-	-	Assignment	1hr	yes	-
			UNIT-A Calculation of λ_{max} Values using		-	-	-	-				
			Woodward-Fieser rules (Revision) IR - problems		-	-	-	-				
			MID-EXAMS		-	-	-	-				
			UNIT-III A) Basic principle of NMR, Instrumentation.		-	-	-	-	Seminar	1hr	yes	-
			B) Shielding & deshield- ing, chemical shift & measurements.		-	-	-	-				
<i>JAN</i>	<i>3rd</i>	<i>4 hrs</i>										
<i>JAN</i>	<i>4th</i>	<i>4 hrs</i>										

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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <i>Dr. B. Valli Purima</i>					CLASS : <i>II M.Sc</i>				Semester : <i>III</i> Paper : <i>II</i> <i>Organic Spectroscopy</i>			
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
			Factors influencing chemical shift, Spin-Spin interactions-factors influencing coupling constant		-	-	-	-	-	-	-	-
<i>Jan</i>	<i>V</i>	<i>4 hrs</i>	③ CMR, similarities & difference of PMR & CMR, typical Examples of CMR spectroscopy Simple system		-	-	-	-	<i>Assignment</i>	<i>1hr</i>	<i>yes</i>	-
			UNIT-IV EI, CI, ES, MALDI		-	-	-	-	-	-	-	-
			① FAB		-	-	-	-	-	-	-	-
<i>Feb</i>	<i>I</i>	<i>4 hrs</i>	factors affecting fragmentation		-	-	-	-	-	-	-	-
	<i>II</i>	<i>4 hrs</i>	② Molecular ion peak, meta stable peak, base peak		-	-	-	-	<i>Seminar</i>	<i>1hr</i>	<i>yes</i>	-

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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: <u>Dr. B. Valli Purvime</u>					CLASS: <u>II M.Sc.</u>				Semester: <u>III</u>		Paper: <u>IV Organic Spectroscopy</u>		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		
<u>Jan</u>	<u>1st</u>		<u>Mc Cafferty rearrangement, nitrogen rule.</u>		-	-	-	-	-	-	-	-		
			<u>II MD-EXAMS</u>		-	-	-	-	-	-	-	-		
<u>Mar</u>	<u>2nd</u>	<u>4 hrs</u>	<u>EXAMPLES OF MASS Spectral fragmentation of</u>		-	-	-	-	-	-	-	-		
			<u>Organic compounds problems.</u>		-	-	-	-	-	-	-	-		
			<u>Revision</u>		-	-	-	-	-	-	-	-		
			<u>Revision</u>		-	-	-	-	-	-	-	-		

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>J. Durga</u>					CLASS: <u>II.Msc.-org.chem.</u> Semester: <u>II</u>			Paper: <u>III. (Modern Org. Syn)</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	
Nov	<u>I</u>	5hr	<u>Unit - III</u> Hof, Barton, photo	Definitions of photolysis,	—	—	—	—	—	—	—	—	—
			-lysis of organic hypohalites.	protonolysis and their reactions.	—	—	—	—	—	—	—	—	—
Nov	<u>III</u>	4hr	preparations & mech of organoboranes.	Boranes introduction	—	—	—	—	seminar	1hr	yes	—	—
Nov	<u>IV</u>	5hr	functional group transformation of	and explanation of differences	—	—	—	—	—	—	—	—	—
			organoboranes - oxidation, isomerisa ⁴ⁿ	blw Alkynyl, Terminal, internal,	—	—	—	—	—	—	—	—	—
Nov	<u>V</u>	2 hr	protonolysis, Carbonylation (half)	Alkynyl Boranes.	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: J. Durga					CLASS: II msc (organic chem) Semester: III				Paper: III (Modern organic synthesis - I)			
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
Dec	I st	4 hr	Carbonylation & cyanoboration.	-	-	-	-	-	-	-	-	-
Dec	II	5 hr	unit- II protecting groups of alcohols	Definition of compulsory character.	-	-	-	-	Assignment	1hr	yes	-
Dec	III	4 hr	protection of 1,2 diols & amines (2 types)	-	-	-	-	-	-	-	-	-
Dec	IV	5 hr	protection of amines, COOH,	Microwave technology	-	-	-	-	-	-	-	-
Jan	I	4 hr	PTC & crown ethers	introduction.	-	-	-	-	-	-	-	-
Jan	(II)	(5hr)	I-MID exams	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>J. Durga</u>					CLASS: <u>II M.Sc(Organic Chem)</u> Semester: <u>III</u>				Paper: <u>III (Modern organic synthesis-I)</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	
Jan	<u>III</u>	4h	<u>Unit - I</u> Aldol sea ⁿ , Zimmee-man traxler model.	Enolate & its formation,	—	—	—	—	—	—	—	—	—
Jan	<u>IV</u>	5h	stork enamine sea ⁿ & its applications	Aldol reaction Introduction	—	—	—	—	Seminar	1hr	yes	—	—
			Baylist-Hilsman sea ⁿ	of coupling reaction &	—	—	—	—	—	—	—	—	—
Feb	<u>I</u>	4h	org. palladium chem & org. copper chem.	its types.	—	—	—	—	—	—	—	—	—
Feb	<u>II</u>	5h	org. sulphur chem. Carbenes & carbeneoids	—	—	—	—	—	—	—	—	—	—
Feb	<u>III</u>	4h	<u>Unit - II</u> E ₁ & E ₂ sea ⁿ s with 3 rules.	—	—	—	—	—	Assignment	1hr	yes	—	—

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: J. Durga					CLASS: <u>ii Msc Organic chemistry</u> Semester: <u>iii</u>				Paper: <u>iii (Modern organic synthesis-I)</u>			
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
			Pyrolytic syn elimi- -nation reac ⁿ ,	Definitions of Elimination reac ^{ns} &	—	—	—	—	—	—	—	—
			Sulphoxide-sulphen- -ate rearrangeme- -nt	its types.	—	—	—	—	—	—	—	—
Feb	<u>iv</u>	5hr	5 Named reac ^{ns} , metathesis &	—	—	—	—	—	Seminar	1hr	yes	—
			Cerubbs catalyst & 2 types of	—	—	—	—	—	—	—	—	—
			reagents.	—	—	—	—	—	—	—	—	—
					—	—	—	—	—	—	—	—

J. Durga
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CURRICULUM LECTURER WISE 2022-2023

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: B. VALLI PURNIMA					CLASS: II. M.Sc. Org. chem		Semester: III		Paper: IV			CHEMISTRY OF NATURAL PRODUCTS - II		
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		
NOV	II	4 hr	<u>UNIT-I.</u> Structure, stereochemistry, synthesis of Morphine.		-	-	-	-	-	-	-	-	-	
			structure, stereochemistry, syn ⁿ of strychnine		-	-	-	-	-	-	-	-	-	
NOV	III	5 hr	Structure, stereochemistry, syn ⁿ of colchicine		-	-	-	-	-	Seminar	1hr	yes	-	
			Structure, stereochemistry, syn ⁿ of Reserpine.		-	-	-	-	-	-	-	-	-	
NOV	IV	4 hr	<u>UNIT-II</u> isoprene rule, isolation		-	-	-	-	-	-	-	-	-	
			Structure determination of Farnesol		-	-	-	-	-	Assignment	1hr	yes	-	

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER <i>Dr. B. Valli Purnima</i>					CLASS : <i>II M.Sc</i>			Semester : <i>III</i>		Paper : <i>Chemistry of Natural products</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>Dec</i>	<i>I</i>	<i>4h</i>	<i>stereochemistry & Synⁿ of Farnesol</i>		-	-	-	-	-	-	-	-	-
			<i>Structure, stereochemistry synⁿ of β-amyriin</i>		-	-	-	-	-	-	-	-	-
<i>Dec</i>	<i>II</i>	<i>4hr</i>	<i>Structure, stereochemistry of Taxol</i>		-	-	-	-	<i>Seminar</i>	<i>1hr</i>	<i>yes</i>	-	-
			<i>Synthesis & biosynthesis of Taxol.</i>		-	-	-	-	-	-	-	-	-
<i>Dec</i>	<i>III</i>	<i>5hr</i>	<i>Structure, stereochemistry of Zingiberene</i>		-	-	-	-	-	-	-	-	-
			<i>Synthesis & Biosynthesis of Zingiberene.</i>		-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2021-2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER <i>Dr. B. Valli Purnima</i>					CLASS : <i>II M.Sc</i>		Semester : <i>III</i>		Paper : <i>IV</i> <i>Chemistry of Natural Products</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>Dec</i>	<i>IV</i>	<i>4 hr.</i>	<i>Structure, stereo-chemistry of Forskolin</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Synthesis & Biosynthesis of Forskolin</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>Jan</i>	<i>I</i>	<i>5 hr.</i>	<i>Structure, stereochemistry of Azadirachtin</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>Assignment</i>	<i>1hr</i>	<i>yes</i>	<i>-</i>	<i>-</i>
			<i>Synthesis & Biosynthesis of Azadirachtin</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>Jan</i>	<i>II</i>		<i>I - MID EXAMS</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>UNIT - III</i>										
<i>Jan</i>	<i>IV</i>	<i>4 hr.</i>	<i>Occurrence, nomenclature</i>		<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>Seminar</i>	<i>1hr</i>	<i>yes</i>	<i>-</i>	<i>-</i>

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CURRICULUM LECTURER WISE 2022 - 2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <i>Dr. B. Valli Purnima</i>					CLASS: <i>II M.Sc</i>			Semester: <i>III</i>		Paper: <i>IV Chemistry of Natural products</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	
			Basic skeleton, Diel's hydrocarbon & its stereochemistry		-	-	-	-	-	-	-	-	-
Feb	I	5hr	Isolation, structure, synthesis of cholesterol		-	-	-	-	-	-	-	-	-
			synthesis of cholesterol		-	-	-	-	-	-	-	-	-
Feb	II	4hr	structure of Androsterone		-	-	-	-	Assignment	1hr	yes	-	-
			synthesis of Androsterone		-	-	-	-	-	-	-	-	-
Feb	III	5hr	Structure and synthesis of Testosterone		-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2021-2023

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <i>Dr. B. Valli Purnima</i>					CLASS: <i>II M.Sc</i>		Semester: <i>III</i>		Paper: <i>Chemistry of Natural Products</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	
			Structure and synthesis of Progesterone		-	-	-	-	-	-	-	-	-
Feb	IV	4hr	UNIT IV occurrence, nomenclature & general methods.		-	-	-	-	Seminar	1hr	yes	-	-
			Isolation, structure of kaempferol		-	-	-	-	-	-	-	-	-
Mar	I	5hr	Synthesis of kaempferol		-	-	-	-	-	-	-	-	-
			Structure, synthesis of Quercetin		-	-	-	-	-	-	-	-	-
			Structure, synthesis of cyanidin		-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2022-2023

PLAN (Year)

Semester : III Paper : Chemistry of Natural Products

'ANNUAL CURRICULAR

NAME OF THE LECTURER Dr. B. Valli Purnima

CLASS : II M.Sc

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	
Mar	II	4hr.	Structure, synthesis of Genestein.		-	-	-	-	-	-	-	-	-
			Structure, synthesis of Butein		-	-	-	-	-	-	-	-	-
			Structure, synthesis of Daidzein		-	-	-	-	-	-	-	-	-
			Biosynthesis of flavonoids & Isoflavonoids.		-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-
					-	-	-	-	-	-	-	-	-

Assignment 1hr yes

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