SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. Ramu

CLASS : IM.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
Feb	1st	2h	Unit-I schrodinger wave equation, interpre	List out the differential equations and	—	—	—	—	—	—	—	—
			-tation of wave function 'ψ'	logorithm formulas — pifferential for-	—	—	—	—	—	—	—	—
feb	2nd	4h+1h	properties of wave function - Normalis- -ation and ortho	-mulas. sin and cos values for	—	—	—	—	—	—	—	—
			-gonalisation - operators: linear, non-linear, commut-	different degree	—	—	—	—	Seminar	1	yes	—
			ator operators, Hermit -an operator and its properties. Eigen.	—	—	—	—	—	—	—	—	—
			values and Eigen functions, setting up of operators to observables	—	—	—	—	—	—	—	—	—

Signature of the Lecturer

B.V.P...

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Dr. G. Ramu

CLASS : IM.Sc-organic chemistry Semester: I Paper : I - General chemistry 4

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
March	1st	4h	Basic postulates of quantum mechanics	–	–	–	–	–	–	–	–	–
			1,2,3,4,5 postulate in detail. simultaneous measurement	–	–	–	–	–	–	–	–	–
			of properties and the heisenbergs uncertainty principle	–	–	–	–	–	–	–	–	–
March	2nd	4h	unit-II wave mechanics of simple systems with	–	–	–	–	–	–	–	–	–
			constant potential energy- particle in one dimensional box.	–	–	–	–	–	Assignment	1	yes	–
			factors influencing color tansition- dipole moment integral	–	–	–	–	–	–	–	–	–

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B. V. Subbareddy
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER Dr. G. Ramu CLASS : I M.Sc. org. chemistry Semester : I Paper : General chemistry - I

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			symmetry arguments in deriving the selection rules	–	–	–	–	–	–	–	–	–
March	3rd	4h	the concept of tunneling – particle	–	–	–	–	–	Assignment	1	yes	–
			in three dimensional box - ware function, Eigen values,	–	–	–	–	–	–	–	–	–
			orthogonality Normalisation conditions.	–	–	–	–	–	–	–	–	–
March	4th	4h	Rigid rotator: classical and Quantum mechanical treatment	How the carterian co-ordinates (x,y,z)	–	–	–	–	–	–	–	–
			ware function and its eigen values	transform into spherical polar coordinates (r,θ,φ)	–	–	–	–	–	–	–	–

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B. V. Purima
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. Ramu CLASS : I M.Sc-Org chemistry Semester : I Paper : General chemistry-I

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
April	1st	4h	wave mechanics of systems with variable potential energy	–	–	–	–	–	–	–	–	–
			-simple harmonic oscillator & solvation of s.w. equation.	–	–	–	–	–	seminar	1	yes	–
			selection rules energy level diagram	–	–	–	–	–	–	–	–	–
April	2nd	2h	unit-III Introduction to spectroscopy and	–	–	–	–	–	–	–	–	–
			different types of spectroscopies	–	–	–	–	–	–	–	–	–
April	3rd	2h	Rotational spectra of diatomic molecules Rigid rotator.	–	–	–	–	–	–	–	–	–

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. Ramu CLASS : I M.Sc. org. chemistry Semester : I Paper : General chemistry - I

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			selection rules energy level diagram	–	–	–	–	–	–	–	–	–
April	4th	4h	calculation of bond length, isotopic effect, second order stark effect and its applications	–	–	–	–	–	Assignment	1	Yes	–
			IR spectra of di atomic molecule- harmonic oscillator selection rules, def of anharmonic oscillator.	Applications of Harmonic and Anhormonic oscillator	–	–	–	–	–	–	–	–
April	5th	1h	Anharmonic oscillator selection rules, Energy level.	–	–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. Ramu

CLASS : I M.Sc - org. 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
			diagram, fundamental frequency, 1st, 2nd overtones	–	–	–	–	–	–	–	–	–
Feb	1st	3h	combination and difference bands	–	–	–	–	–	–	–	–	–
			Fermi Resonance with example. cal. of force constand anharmonicity constant.	–	–	–	–	–	Seminar	1	yes	–
				–	–	–	–	–	–	–	–	–
may	2nd	4h	simultaneous vibrational-rotational spectra of	–	–	–	–	–	–	–	–	–
			diatomic molecules (PQR spectrum) selection rules	–	–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. Ramu

CLASS : I M.Sc-org.chemistry Semester : I Paper : General chemistry-I

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Unit-IV types of electronic transitions in	–	–	–	–	–	–	–	–	–
			organic molecule Examples.	–	–	–	–	–	–	–	–	–
June	1st	9h	Raman spectra: stokes, antistokes lines, Raman shift	–	–	–	–	–	–	–	–	–
			classical and quant -um mechanical	–	–	–	–	–	Seminar	1	Yes	–
			treatment of Raman effect. which type of molecules exhibit	–	–	–	–	–	–	–	–	–
			Raman spectra and what are necessary conditions	–	–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. Ramu

CLASS : I-M.Sc-org chemistry Semester : I Paper : 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
June	12th	4h	Rotational Raman and vibrational	Applications of pure Raman,	–	–	–	–	–	–	–	–
			Raman spectra: charge transfer spectra with	Rotational & vibrational Raman spectros	–	–	–	–	–	–	–	–
			examples. Introduct to electronic spectro	–	–	–	–	–	Assignment	1	yes	–
	5th	1h	Franck – condon principle: diagrams statement, explanation	–	–	–	–	–	–	–	–	–
July	3rd	4h	vibrational course structure, diagram	–	–	–	–	–	–	–	–	–
			selection rules spectrum.	–	–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr G. Ramya

CLASS : I M.Sc - Org. chemistry Semester : I Paper : General chemistry - I

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
June	4th	4th	Rotational fine structure- Definition, Derivation.	–	–	–	–	–	–	–	–	–
			Band-Head Def Band-shading Band-origin.	–	–	–	–	–	–	–	–	–
			Total spectrum, I.R diagram with explanation.	–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–
				–	–	–	–	–	–	–	–	–

Signature of the Lecturer

B. V. Purnima
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: T. Subramanyam

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	1st	3h	Introduction - Structure & bonding, Applications of VSEPR, Valence bond theory and molecular orbital theory in explaining the Structure of simple molecules, Roles of P and D orbitals in π-bonding. Applications of MO theory to tetrahedral $[COCl_4]^{-2}$, Square Planar $[PtCl_4]^{-2}$, octahedral complexes. $[COF_6]^{3-}$, $[CO(NH_3)_6]^{3+}$, classification of ligands based on π-bonding using MO theory, Walsh diagram for H_2O molecule	Explanation of Simple molecule MO diagrams. Calculation of Bond Order, Magnetic Behaviour of Complexes	–	–	–	–	–	–	–	–
Feb	2nd	4hrs			–	–	–	–	Seminar	1	Yes	–
					–	–	–	–	–	–	–	–
					–	–	–	–	–	–	–	–

T. Subramanyam
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: T. Subramanyam

CLASS: I MSC Semester: I Paper: II - Inorganic Chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Mar	1st	3h	Inorganic Cage and ring compounds, preparation structure and reactions of boranes, carboranes, metallo carboranes, Electron counting in boranes - Wades rule	Explanation of tetra boranes and Penta boranes	–	–	–	–	–	–	–	–
Mar	2nd	4h	Heterocyclic inorganic ring systems, boron-nitrogen, ($H_3B_3N_3H_3$) Phosphorous-Nitrogen ($N_3P_3Cl_6$) and Sulphur - Nitrogen (S_4N_4) (SN_x) - cyclic compounds.	–	–	–	–	–	Assignment	1	Yes.	–
Mar	3rd	4h	Cage compounds- phosphorous, Oxides and phosphorous Sulphides Isopoly, heteropoly Anions.	–	–	–	–	–	–	–	–	–

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: T. Subramanyam CLASS: IMSc Semester: I Paper: I - Inorganic chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Mar	4th	4h	Coordination Compounds -crystal field theory and -crystal field splitting Pattern in Octahedral,	Definition of the terms used in coordination	–	–	–	–	–	–	–	–
			tetrahedral, tetragonal square planar, square pyramidal and trigonal bipyramidal:	Chemistry, Sidwick's EAN rule	–	–	–	–	–	–	–	–
Apr	1st	4h	calculation of CFSE. Factors affecting spectro-chemical series, John-teller effect:	–	–	–	–	–	–	–	–	–
			ne phelauxetic effect, Ligand field theory	–	–	–	–	–	Seminar	1	Yes.	–
			Term symbols, Russell	–	–	–	–	–	–	–	–	–
Apr	2nd	4h	- Saunders, coupling derivative of term symbols for various configurations.	–	–	–	–	–	–	–	–	–
April	3rd	4h	Spectroscopic ground states.	–	–	–	–	–	–	–	–	–

T. S.
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER T. Subramanyam

CLASS : I Semester : MSC - 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
May		5hr	Electronic spectra of transition metal complexes, types of	Explanation of transition metal and various	—	—	—	—	Assignment	1	Yes.	—
June	1st	5hrs	electronic transitions, d-d transition, selection rules, breakdown of selection rules, Orgel &	Oxidation states.	—	—	—	—	—	—	—	—
	2nd	5hrs	T-S diagram for D_1 & D_q octahedral & tetrahedral, transition metals, complexes of 3d-	—	—	—	—	—	—	—	—	—
	3rd	5hrs	Series, calculation of D_q, B & β parameters. charge transfer path magnetic properties of transition and inner transition metal complexes - spin &	—	—	—	—	—	—	—	—	—
			Orbital moments - quenching of orbital momentum by crystal field in complexes	—	—	—	—	—	—	—	—	—

T. Subramanyam
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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year) — Organic chemistry

NAME OF THE LECTURER: Dr. B. Vattipurnima — CLASS: I. M.Sc (Org) — Semester: I — Paper: III

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
feb	1st	4hrs	preparation and properties of quinoline	uses of quinoline	–	–	–	–	–	–	–	–
			Preparation and properties of isoquinoline.	uses of isoquinoline.	–	–	–	–	–	–	–	–
feb	2nd	3hrs	Electronic effect and Reactive Intermediates mesomeric effects, Hyper conjugation,	–	–	–	–	–	–	–	–	–
			Steric effect, Tautomerism reactivity of carbocations and carbanions.	–	–	–	–	–	–	–	–	–
			preparation and properties of Pyrrole.	uses of pyrrole	–	–	–	–	–	–	–	–
			preparation and properties of oxazole	uses of oxazole	–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER Dr. B. Vadli Purnima

CLASS : I MSc (Org) Semester : II 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
Mar	1st	4hr	Properties and Synthesis of Isoxazole and Pyrazole	uses of Pyrazole	-	-	-	-	-	-	-	-
			Synthesis and properties of Imidazole.	-	-	-	-	-	-	-	-	-
	2nd	4hrs	Pyradazine, Pyrimidine, Pyrazine	-	-	-	-	-	-	-	-	-
			reactivity of free radicals, carbenes nitrenes & arynes.	-	-	-	-	-	-	-	-	-
	3rd	4hr	Criteeia for Aromaticity Huckel's rule & MO theory, aromaticity	will be shown MO theory of Aromaticity	-	-	-	-	-	-	-	-
			in benzenoid & non benzenoid compounds in charged and fused ring systems	PPt presentation	-	-	-	-	Assignment on Aromaticity	-	-	-

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CURRICULUM LECTURER WISE 2021-2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. B. Valli Purnima

CLASS : I MSc (org) Semester : 2 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
	4th	4hrs	Hetero aromatic system, Annulenes Cyclo butadiene	–	–	–	–	–	–	–	–	–
			Benzene 1, 3, 5 7 – Cyclo octatetrone [16] Annule – [12]	–	–	–	–	–	–	–	–	–
Apr	1st	4hr	[14] [16] and [18] fulvenes, fullerens ferrocene, anti & homo aromaticity	structues and uses of fullerenes	–	–	–	–	–	–	–	–
			Synthesis of Atropine, Nicotine	–	–	–	–	–	–	–	–	–
	2nd	4hr	and Quinine isolation and their structure elucidation	–	–	–	–	–	–	–	–	–
			Synthesis and bio genesis of α – Terpenol	uses of α – Terpenol	–	–	–	–	–	–	–	–

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. B. Valli Purnima

CLASS : I M Sc (Org) Semester : I Paper : III Organic chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	3rd	4hr	Inductive & mesomeric effect, Hyper - conjugation,	Inductive effect Applications	-	-	-	-	-	-	-	-
			steric effect, Tautomerism, reaction intermediates	-	-	-	-	-	Student Seminar on Aromaticity	01	yes	-
	4th	4hr	Synthesis and biogenesis of α - Terpenol,	-	-	-	-	-	-	-	-	-
			α - pinene and camphor	uses of camphor	-	-	-	-	-	-	-	-
	5th	4h	molecular symmetry and chirality, Symmetry elements,	-	-	-	-	-		-	-	-
			classification of stereo isomers, enantiomers	-	-	-	-	-	Debate on Enantiomers and Diastereomers	01	yes	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER: Dr. B. Valli Purnima

CLASS: I Msc (Org) Semester: 2 Paper: IV Organic chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
May	1st	3hr	Diastereomers, Inveetomer, Homomer, Epimer, Anomer	examples of Epimers and Anomers	-	-	-	-	-	-	-	-
			Configuation and conformation, D, L & R, S nomenclature	-	-	-	-	-	-	-	-	-
			Tetra and Tri coordinate chiral Centre	-	-	-	-	-	-	-	-	-
	2nd	4hr	Geometrical isomerism, cis-trans E, Z & Syn & anti	-	-	-	-	-	-	-	-	-
			Geometrical isomer methods, cis-trans inter conversion	-	-	-	-	-	-	-	-	-
June	1st	4hr	Prochirality and prostereoisomerism Homotopic ligands	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER: Dr. B. Valli Purnima

CLASS: IMSc (Org) Semester: I Paper: III - organic chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	2nd	4hr	and faces Stereo isomerism in molecules without	-	-	-	-	-	-	-	-	-
			chiral centre - Axial chirality Alkenes Alkylidene & Cyclo	-	-	-	-	-	-	-	-	-
	3rd	4hr	alkenes, Atrop isomerism, Bi phenyl derivatives	-	-	-	-	-	-	-	-	-
			planar chirality Ansa Compounds fulvans cyclooctene	Remedial class	-	-	-	-	-	-	-	-
	4th	4hr	and Helicity	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-

B. V. Purnima
Signature of the Lecturer

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. R. Satyanarayana

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: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Unit-I Introduction to Thermodynamics	Basic terms used in TD	–	–	–	–	–	–	–	–
Feb	1st	4hr	Concept of Partial molar properties	and their symbol relations among	–	–	–	–	–	–	–	–
			Partial molar volume and its significance	Various therm Properties.	–	–	–	–	–	–	–	–
	2nd	3hr	Determination of Partial molar volume by	–	–	–	–	–	Assignment	1	yes	–
			Graphical method, derivation, Intercept	–	–	–	–	–	–	–	–	–
			Method - derivation, apparent molar volume method	–	–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G.R. Satyanarayana. CLASS : I M.Sc organic chemistry Semester : II 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
			Partial molar free energy - chemical Potential, Variation	-	-	-	-	-	-	-	-	-
Mar	1st	4hr	of G with T and P Gibb's Duhem Eqn derivation, significance	-	-	-	-	-	Seminar	1	Yes	-
			Phase equilibria & derivation of Gibbs phase rule. Ideal	-	-	-	-	-	-	-	-	-
	2nd	3hr	and non-ideal Solutions Thermodynamic pro's of mixing of ideal Sol'n	-	-	-	-	-	-	-	-	-
			Vapour pressure - Roult's law and	-	-	-	-	-	-	-	-	-
			Henry's law - Concept of fugacity and activity, its Coefficient	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER Dr. G.R. Satyanarayana. 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	-	-	-	-	-	-	-	-	-
	3rd	3hr	from vapour pressure method and Gibbs - Duhem Equation.	-	-	-	-	-	-	-	-	-
			Chemical Equilibrium - Van't Hobb isotherm Van't Hobb isochore	-	-	-	-	-	-	-	-	-
	4th	3hr	unit-II Surface active agents classification of S.A.A	-	-	-	-	-	Assignment	1	Yes	-
			Definition of micelles and macromolecules. micellisation,	-	-	-	-	-	-	-	-	-
			Hydrophobic interaction critical micellar Concentration (CMC)	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER Dr. G.R. Satyanarayana

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: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Apr	1st	4hr	factors affecting the CMC of Surfactants.	–	–	–	–	–	–	–	–	–
			Thermodynamics of micellisation	–	–	–	–	–	–	–	–	–
	2nd	4hr	phase seperation and mass-action models, Solubilization	Definitions of phase,	–	–	–	–	–	–	–	–
			Micro Emulsion, reverse micelles	number of Components.	–	–	–	–	Seminar	1	yes.	–
			polymers - definition, types of polymers. polymerisation -	Examples of different types of polymerisation	–	–	–	–	–	–	–	–
			classification. Electrical Conducting, fire resistant, liquid	–	–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G.R. Satyanarayana

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
			Crystal polymers	–	–	–	–	–	–	–	–	–
	3rd	4hr	Number and weight average molecular weights definition.	–	–	–	–	–	Assignment	1	Yes	–
			molecular weight determination by osmometry, Viscometry	–	–	–	–	–	–	–	–	–
	4th	3hr	M.W determination by ultracentrifugation	–	–	–	–	–	–	–	–	–
			Method, light scattering methods	–	–	–	–	–	–	–	–	–
			Unit-III Introduction to chemical kinetics.	–	–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER: Dr. G.R. Satyanarayana CLASS: I M.Sc Organic Chemistry Semester: II Paper: IV physical chemistry.

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Theories of reaction rates collision theory - Limitations, derivation	Definitions of rate of reacn rate Const.	–	–	–	–	–	–	–	–
May	1st	4hr	Transition State theory: Thermodynamical and statistical	of the Mathematical Expression for 1st, 2nd.	–	–	–	–	–	–	–	–
			derivation of rate Constants. Definition of ionic strength.	and 3rd order reactions.	–	–	–	–	Assignment	1	Yes.	
	2nd	4hr	Debye - Huckel theory - explanation		–	–	–	–	–	–	–	–
			primary and Secondary salt effects.		–	–	–	–	–	–	–	–
			Double Sphere model: Effect of dielectric Constant.		–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G.R. Satyanarayana

CLASS : I M.Sc. organic chem Semester : I Paper : IV physical chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Jump methods Unit-IV Introduction to	–	–	–	–	–	–	–	–	–
			photochemistry. franck-condon principle. Singlet	Definition of fluorescence	–	–	–	–	–	–	–	–
			triplet states. Jablonski diagram	phosphorescence and their applications.	–	–	–	–	–	–	–	–
June	1st	3hr	spin-orbit interaction. Quantum yield, reasons for	–	–	–	–	–	–	–	–	–
			low and high Q.Y	–	–	–	–	–	–	–	–	–
			experimental determination	–	–	–	–	–	–	–	–	–
			Actinometer - ferrioxalate and.	–	–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. R. Satyanarayana

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
			Effect of Substituents Hammett Eq? limitations, Taft Equation		-	-	-	-	-	-	-	-
			Rate Constants of Consecutive reacn Parallel reactions		-	-	-	-	Seminar	1	Yes	-
	2nd	3 hr	Opposing reactions. General and Specific		-	-	-	-	-	-	-	-
			Acid-Base Catalysis. Skrabal diagram. Fast reactions.		-	-	-	-	-	-	-	-
			Flow methods for Studying fast reac^n's		-	-	-	-	-	-	-	-
			Relaxation methods : Temperature jump and pressure		-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G.R. Satyanarayana 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
			Uranyl oxalate actinometery	–	–	–	–	–	–	–	–	–
			Derivation of fluoroscence and Phosphorescence	–	–	–	–	–	–	–	–	–
	3rd	4hr	Quantum Yields	–	–	–	–	–	–	–	–	–
			Quenching Effect Stern-Volmer Eqn	–	–	–	–	–	–	–	–	–
			Derivation, S.V. Constant, deviations	–	–	–	–	–	–	–	–	–
			Delayed fluorescence :- E-Type & P-Type	–	–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G.R. Satyanarayana

CLASS : Semester : Paper :

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
	4th	3hr	Types ob photo chemical reactions	–	–	–	–	–	–	–	–	–
			photo dissociation & photo fragmentation	–	–	–	–	–	–	–	–	–
			Photo addition reactions and Promerisation reacn	–	–	–	–	–	–	–	–	–
			mechanism with examples.	–	–	–	–	–	–	–	–	–

G. R. Satyanarayana
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Ch. Bhavaneswari

CLASS : II MSC-Org. Chemistry Semester : III Paper : I (ORM & Pericyclic reactions)

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	2nd	5h	Unit-I NGP by Bromine, phenyl, σ, π, cyclopro	Definition of NGp and its	–	–	–	–	–	–	–	–
			-pyl group, SN at allylic carbon	types. Definition of	–	–	–	–	–	–	–	–
Nov	3rd	4h	SN at aliphatic trigonal carbon, vinylic	electrophile Nucleophile	–	–	–	–	Seminar	1hr	Yes	–
			Carbon, Ambident nucleophiles, Hyd	and their uses in the	–	–	–	–	–	–	–	–
			of esters.	reactions	–	–	–	–	–	–	–	–
Nov	4th	5h	Mech. of esterification of cooH with OCH	–	–	–	–	–	–	–	–	–

Ch. Bhavaneswari
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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Ch. Bhavaneswari

CLASS: II M.Sc (Org Chemistry) Semester: III Paper: I (ORM & Pericyclic reactions)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			mayer's syn of add ketones & CooH	–	–	–	–	–	–	–	–	–
			mitsnobu reaction von, Braun reaction	–	–	–	–	–	Assignment	1hr	Yes	–
Dec	2st	1hr	Se^2, Se^1, Se^1, H^1 as electrophile, HVZ	Dissociation of electrophile,	–	–	–	–	–	–	–	–
			migration of double bond, $Ne^{\ominus}$	Nucleophilic substitution	–	–	–	–	*	–	–	–
	II	5hr	Halogen $e^{\ominus}$, ald & ketones, sulphoxides	& elimination reaction.	–	–	–	–	–	–	–	–
			& sulphones, Diazo Coupling, Diazo transfes	with their applications	–	–	–	–	Seminar	1hr	Yes	–

Ch. Bhavaneswari
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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER ~~Dr.V.Vatti purnima~~ Ch. Bhurameswari

CLASS : II M.Sc (Org. chemistry) Semester : III Paper : I (ORM & Pericyclic reactions)

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
			Frean, Decarboxyla -tion of aliphatic	-	—	—	—	—	—	—	—	—
			Acids, Dakin, acetl Haller Baers rea^n	—	—	—	—	—	—	—	—	—
Dec	III	4h	Unit-II Topicity & Nomen	Introduction of steterochemi	—	—	—	—	Assignment	1hr	Yes	—
			-cature ryles Analytical methods	-stry, Symmet -ry, Asymmetry	—	—	—	—	—	—	—	—
Dec	IV	5h	stereoselectivity e.e.%, D.e.%,	Asymmetric induction &	—	—	—	—	—	—	—	—
			optical purity, Specific rotation	types, Uses	—	—	—	—	—	—	—	—

Ch. Bhuru
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER: Ch. Bhaveswara Rao

CLASS: II M.Sc (Org. Chemistry) Semester: III Paper: I (CORM & Pericyclic reactions)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Dec	V	2h	Chiral NMR, Solvent reagent, HPLC &	Chemoselectivity & Regio selectivity	–	–	–	–	–	–	–	–
			Chiral derivating agent	–	–	–	–	–	Seminar	1hr	Yes	
Jan	I	4h	Revision for I MID Exams	–	–	–	–	–	–	–	–	–
Jan	II	5h	I MID Exames	–	–	–	–	–	–	–	–	–
Jan	III	4h	Unit-II Mol. Obrital symmetry	Introduction of pericyclic	–	–	–	–	–	–	–	–
			FMO of ethylene & 1,3 Butadiene	reaction and their types	–	–	–	–	Assignment	1hr	Yes.	–

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B. V. Rao

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Ch. Bhavaheswarf

CLASS : II M.Sc. Org chemistry Semester : III Paper : I (ORM & Pericyclic Reactions)

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	IV	5h	1,3,5 Hexatriene allyl system, 4n	and how they are	–	–	–	–	–	–	–	–
			& 4n+2 electrocy - clic reaction	formed with Some examples	–	–	–	–	–	–	–	–
Feb	I	4hr	Cycloaddition lead (2+2) addition of	–	–	–	–	–	Seminar	1hr	Yes	–
			ketons, allyl System	–	–	–	–	–	–	–	–	–
Feb	II	5hr	Chelotropic reacts Suprafacial, Antra	–	–	–	–	–	–	–	–	–
			-facial terms, woodward rules	–	–	–	–	–	–	–	–	–

Ch. Bhavaheswarf
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B. V. [illegible]
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Ch. Bhavaneswari

CLASS: II MSc (Org. chemistry) Semester: III Paper: I (ORM & pericyclic reactions)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
feb	III	4h	Unit IV Pmo & fmo	Introduction of types of rotation & shifts	–	–	–	–	Seminar	1hr	yes	–
			sigmatropic shifts	Explanation of (1,3)(1,5) shifts	–	–	–	–	–	–	–	–
feb	IV	5h	3 named reaction Claisen, Cope	Diell's Alder reaction	–	–	–	–	–	–	–	–
			Baston, Carbon moeities		–	–	–	–	–	–	–	–
mar	I	4hr	(Revi) II MID exams		–	–	–	–	–	–	–	–
mar	II	5h	Revision of Q.P		–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. B. Valli purnima

CLASS : II M.Sc org chem Semester : III Paper : II (Organic spectroscopy-I)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Unit-I									
Nov	1st	4h	(A) Calculation of dmax values using wood ward fieser rules		-	-	-	-	-	-	-	-
			dmax values using wood ward fisher rules		-	-	-	-	Seminar	1hr	yes	-
	2nd	4h	(B) applications, solvents effects, geometrical isomerism		-	-	-	-	-	-	-	-
			(B) Calculation of λmax values using wood ward fieser rules		-	-	-	-	-	-	-	-
			acid & base effects (A) Beer. lamberts law - Instrumentation		-	-	-	-	Assignment	1hr	yes	-
			Energy transitions chromophores - Auxo - chrome		-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER: Dr. B. Vallipuranima

CLASS: III Sc org. chem Semester: III Paper: II (organic spectroscopy-I)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Dec	1st	3hr	Absorption shifts a. vabsorbtion of Alkenes - polyenes		-	-	-	-	-	-	-	-
			unit-II ① fundemental modes of vibrations, factors effecting vibrational freq		-	-	-	-	-	-	-	-
	2nd	3hr	Hydrogen Bonding, mechanics of measurement		-	-	-	-	-	-	-	-
			② Finger print region importance, typical group freq's -CH, -OH		-	-	-	-	Seminar	1hr	yes	-
	3rd	4hr	N-H, C-O and aromatic systems - Applications		-	-	-	-	-	-	-	-
			IR-structural determination - examples.		-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr.B.Vallee purnima

CLASS : IIM.Sc. org. chem Semester : III Paper : (organic spectroscopy-I)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Dec	4th	4hr	IR-Simple Problems		–	–	–	–	Assignment	1hr	yes	–
			unit-IA Calculation of λmax values using		–	–	–	–	–	–	–	–
Jan	1st	4hr	woodward-fieser rules(Revision) IR-problems		–	–	–	–	–	–	–	–
			MID-Exams		–	–	–	–	–	–	–	–
	2nd	4hr	unit-II (A) Basic principle of NMR, Instrumentation		–	–	–	–	Seminar	1hr	ya	–
			(B) shielding & desfield -ing, chemical shifts measurements		–	–	–	–	–	–	–	–

B.V. Purnima
Signature of the Lecturer

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER: Dr. B. Vani Purnima.

CLASS: II M.Sc-org. chem Semester: III Paper: II (organic spectroscopy)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Factors influencing chemical shift, spin-spin interactions - factors influencing		–	–	–	–	–	–	–	–
	3rd	4hr	coupling constant ① CNMR, similarities & difference of PMRS		–	–	–	–	Assignment	1hr	yes	–
			CMR, typical examples of CMR spectroscopy simple system		–	–	–	–	–	–	–	–
	4th	3hr	Unit IV ⓐ EI, CI, ES, MAIOL FAB		–	–	–	–	–	–	–	–
			factors affecting fragmentation		–	–	–	–	–	–	–	–
Feb	1st	4hr	ⓑ Molecular ion peak metal stable peak base peak		–	–	–	–	Seminar	1hr	yes	–

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr.B.Vaali purnima

CLASS : II M.Sc-Org.chem Semester : III Paper : II (organic spectroscopy-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
			Mc Lafferty rearran-gement, Nitrogen rule		–	–	–	–	–	–	–	–
Feb	1st	4hr	II MID-Exams		–	–	–	–	–	–	–	–
	3rd	4h	Examples of mass Spectral fragmenta-tion of Organic Compounds problems		–	–	–	–	–	–	–	–
			Revision		–	–	–	–	–	–	–	–
	4th	4hr			–	–	–	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER Dr. B.S.N Murthy

CLASS : II MSc (Org. chemistry) Semester : III Paper : III (Modern Org. Syn-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	5 hr	Unit - III HIF, Barton, photo	Definitions of photolysis,	—	—	—	—	—	—	—	—
			-lysis of organic hypohalites	Protonolysis and their reactions	—	—	—	—	—	—	—	—
Nov	III	4hr	Preparations and rxn of organoboranes	Boranes introduction	—	—	—	—	Seminar	1hr	Yes	—
Nov	IV	5hr	functional group transformation of	and explanation and differences	—	—	—	—	—	—	—	—
			Organoboranes - oxidation, Isomerisat	b/w Alkenyl Telminal, Internal	—	—	—	—	—	—	—	—
Nov	V	2hr	Protonolysis, Carbonylation (half)	Alkynyl Boranes	—	—	—	—	—	—	—	—

B.V.R.M.S
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER: Dr. B.S.N Kaveri. CLASS: II MSc (Org. Che) Semester: III Paper: III (Modern organic Synthesis-II)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Dec	I st	4hr	Carboxylation cyanoboration	—	—	—	—	—	—	—	—	—
Dec	II	5hr	unit-IV protecting groups of alcohols	Definition of umpulony character	—	—	—	—	Assignment	1hr	Yes	—
Dec	III	4hr	protection of 1,2 diols & amines (2 types)	—	—	—	—	—	—	—	—	—
Dec	IV	5hr	protection of amines, COOH,	microwave technology	—	—	—	—	—	—	—	—
Jan	I	4hr	PTC and crown ethers	introduction	—	—	—	—	—	—	—	—
Jan			I-MID Exams.	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. B.S.N Murthy

CLASS : II M.Sc Coorg. Chemistry Semester : III Paper : III (Modern organic Synthesis-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
Jan	III	4hr	Unit-I Aldol rean, Zimmerman traxles model	Enolate & its formation	–	–	–	–	–	–	–	–
Jan	IV	5h	Stork enamine rean & its applications	Aldol rean Introduction	–	–	–	–	Seminar	1hr	yes	–
			Baylistlilsman rean	of coupling rean &	–	–	–	–	–	–	–	–
feb	I	4hr	org. palladium chem. & org. copper chem	its types	–	–	–	–	–	–	–	–
feb	II	5h	org. sulphur chem Carbenes & Carbenoids	–	–	–	–	–	–	–	–	–
feb	III	4h	Unit-II E_1 & E_2 reans with 3 rules	–	–	–	–	–	Assingment	1hr	Yes	–

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER Dr. B.S.N Reddy

CLASS : II M.Sc (Org chemistry) Semester : III Paper : III (Modern organic synthesis-I)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Pyrolytic syn elimination rea^n,	Definitions of elimination reas &	–	–	–	–	–	–	–	–
			Sulphoxide-Sulphen-ate rearrangement	its types	–	–	–	–	–	–	–	–
feb	III	5hr	Named reans, metathesis &	–	–	–	–	–	Seminar	1hr	Yes	–
			Grubbs catalyst & 2 types of reagents	–	–	–	–	–	–	–	–	–
			–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–

Signature of the Lecturer

B. V. Phanima
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year) [CHEMISTRY OF NATURAL PRODUCTS-I]

NAMR OF THE LECTURER ch. Bhaveneswara Rao

CLASS : II M.Sc - org. chemistry Semester : III Paper : IV

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
NOV	II	4hr.	Unit - I Structure, Stereochemistry, Synthesis of Morphine.		–	–	–	–	–	–	–	–
			Structure, Stereochemistry, Synthesis of Strychnine.		–	–	–	–	–	–	–	–
NOV	III	5hr.	Structure, Stereochemistry, Synn of Colchicine.		–	–	–	–	Seminar	1hr	yes	–
			Structure, Stereochemistry, Synn of Reserpine.		–	–	–	–	–	–	–	–
NOV	IV	4hr.	Unit II Isoprene rule, Isolation		–	–	–	–	–	–	–	–
			Structure determination of farnesol		–	–	–	–	Assignment	1hr	yes	–

ch. Bhaveneswara Rao
Signature of the Lecturer

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Signature of the HOD

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: ch. Bhavaneswari

CLASS: IIM.Sc Org. chemi Semester: III Paper: IV [chemistry of Natural products-I]

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Dec	I	5th	Stereochimistry & Synn of Farnesol		–	–	–	–	–	–	–	–
			Structure, stereochem-istry Synn of β-amyrin.		–	–	–	–	–	–	–	–
Dec	II	4hr	Structure / Stereo-chemistry of Taxol		–	–	–	–	Seminar	1hr	yes	–
			synthesis & biosyn-thesis of Taxol		–	–	–	–	–	–	–	–
Dec	III	5hr	Structure / stereoche-mistry of Zingibe-rene		–	–	–	–	–	–	–	–
			synthesis & Biosynt-thes of Zingiberene		–	–	–	–	–	–	–	–

ch. Bhavaneswari
Signature of the Lecturer

B. V. Lima
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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Ch. Bhavaneswari

CLASS: II M.Sc Org. Chemistry | Semester: III | Paper: IV [Chemistry of Natural products-I]

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Dec	IV	4hr.	Structure, Stereochemistry of Forskolin.		–	–	–	–	–	–	–	–
			Synthesis & Biosynthesis of Forskolin		–	–	–	–	–	–	–	–
Jan	I	5hr.	Structure, Stereochemistry of Azadirachtin		–	–	–	–	Assignment	1hr	yes	–
			Synthesis & Biosynthesis of Azadirachtin		–	–	–	–	–	–	–	–
Jan	II		I – MID EXAMS		–	–	–	–	–	–	–	–
Jan	IV	4hr.	Unit-III Occurrance, nomenclature		/	–	/	–	–	–	–	–

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Ch. Bhavaneswari

CLASS: II M.Sc-Org.Chem Semester: III Paper: IV [Chemistry of Natural products-I]

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Basic skeleton, Diel's hydrocarbon & its stereochemistry		–	–	–	–	–	–	–	–
Feb I	I	5hr.	Isolation, structure of synthesis of Cholestrol.		–	–	–	–	–	–	–	–
			Synthesis of Cholestrol		–	–	–	–	–	–	–	–
Feb	II	4hr	Structure of Androsterone.		–	–	–	–	Assignment	1hr	yes	
			Synthesis of Androsterone.		–	–	–	–	–	–	–	–
Feb	III	5hr	Structure and synthesis of Testosterone.		–	–	–	–	–	–	–	–

Ch. Bhavaneswari
Signature of the Lecturer

B. V. Ramana
Signature of the HOD

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Ch. Bhavaneswari

CLASS : II M.Sc Coord. chemistry Semester : III Paper : IV [chemistry of Natural products-I]

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Structure and Synthesis of Progesterone.		–	–	–	–	–	–	–	–
Feb	IV	4hr.	Unit II occurance, nomenclature & General methods		–	–	–	–	Seminar	1hr	yes	–
			Isolation, Structure of Kaempferol		–	–	–	–	–	–	–	–
Mar	I	5hr.	Synthesis of kaempferol		–	–	–	–	–	–	–	–
			Structure, synthesis of Quercetion		–	–	–	–	–	–	–	–
			Structure, synthesis of cyanidin.		–	–	–	–	–	–	–	–

Ch. Bhav
Signature of the Lecturer

B. V.
Signature of the HOD

Signature of the Principal

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Ch. Bhuvaneswaraf. CLASS: IIM.Sc(Org.chem) Semester: III Paper: 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
mar	II	4hr:	Structure, Synthesis of Genestein		–	–	–	–	–	–	–	–
			Structure, Synthesis of Butein.		–	–	–	–	Assignment	1hr	yes	
			Structure, Synthesis of Daidzein		–	–	–	–	–	–	–	–
			Biosynthesis of Flavonoids & Isoflavonoids		–	–	–	–	–	–	–	–
					–	–	–	–	–	–	–	–

Signature of the Lecturer

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