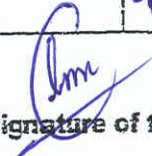
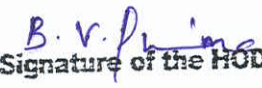


SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

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ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER					CLASS				Paper			
Dr. G. Ramu					I-Msc organic chem				Semester: I			
					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
			Unit-I Schrodinger wave equation, interpretation of wave function ψ	List out the differential equations and logarithm formulas - Differential for-	-	-	-	-				
			Properties of wave function - Normalisation and orthog-	mulas. Sin and cos values for different degrees.	-	-	-	-				
			-normalisation - operators: linear, non-linear, commut-		-	-	-	-	Seminar	1	Yes	
			ator operators, Hermitian operator and its properties. Eigen values and Eigen functions, setting up of operators to observable		-	-	-	-				
JUN	1st	4hrs			-	-	-	-				


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CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <i>Dr. G. Ramu</i>					CLASS: <i>I M. Sc</i>		Semester: <i>I</i>		Paper: <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>Jun</i>	<i>2nd</i>	<i>4hrs</i>	<i>Basic Postulates of Quantum mechanics (2,3,4)</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>5 Postulates in detail • Simultaneous measurement</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>of Properties and the Heisenberg's uncertainty Principle.</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Unit-11 wave mechanics of simple systems with</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>constant potential energy-Particle in one-Dimensional box</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>Assignment</i>	<i>1</i>	<i>Yes</i>	<i>-</i>	<i>-</i>
			<i>factors influencing colour transition. dipole moment integral</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>

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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER					CLASS : I M.Sc				Semester : I		Paper : 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		
			Symmetry arguments in deriving the selection rules	-	-	-	-	-	-	-	-	-	-	-
July	1 st	4hrs	The concept of tunneling - Particle	-	-	-	-	-	-	Assignment	1	Yes	-	-
			in three-Dimensional box - wave function eigen values,	-	-	-	-	-	-	-	-	-	-	-
			orthogonality, Normalisation conditions	-	-	-	-	-	-	-	-	-	-	-
July	2 nd	3hrs	Rigid rotator ; classical and Quantum mechanical treatment	How the cartesian co-ordinate (x,y,z) transf	-	-	-	-	-	-	-	-	-	-
			wave function and its eigen values	form into Spherical Polar coordinates (r,θ,φ)	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <i>Dr. G. Ramu</i>					CLASS: <i>Dmsc organic chemistry</i> Semester: <i>2</i>				Paper: <i>I - General chemistry</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
July	3 rd	4hrs	wave mechanics of systems with variable potential energy	-	-	-	-	-	-	-	-	-
			simple harmonic oscillator:- solution of S.W. Equation.	-	-	-	-	-	Seminar	1	yes	-
			Selection rules energy level diagram	-	-	-	-	-	-	-	-	-
July	4 th	4hrs	<u>unit-III</u> Introduction to spectroscopy and different types of spectroscopies.	-	-	-	-	-	-	-	-	-
			Rotational spectra of diatomic molecules rigid rotator.	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <i>Dr. G. Ramu</i>					CLASS: <i>I-Msc organic chem</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	
			Selection rules Energy level diagram	-	-	-	-	-	-	-	-	-	-
			calculation of bond length, isotopic effect, second order,	-	-	-	-	-	-	Assignment	1	Yes	-
			Stark effect and its applications.	-	-	-	-	-	-	-	-	-	-
July	5 th	4hrs	IR spectra of di-atomic molecules. harmonic oscillator.	Application of harmonic and	-	-	-	-	-	-	-	-	-
			selection rules, Def of Anharmonic oscillator.	Anharmonic oscillator	-	-	-	-	-	-	-	-	-
			Anharmonic oscillator selection rules, energy level	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <i>Dr. G. Ramu</i>					CLASS <i>I inorganic chemistry</i> Semester: <i>I</i>				Paper: <i>I- General chemistry</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
<i>Aug</i>	<i>1st</i>	<i>4hrs</i>	<i>Diagram, fundamental frequency, 1st, 2nd overtones.</i>	-	-	-	-	-	-	-	-	-
			<i>combination and difference bands.</i>	-	-	-	-	-	-	-	-	-
<i>Aug</i>	<i>2nd</i>	<i>4hrs</i>	<i>Fermi Resonance with example: col of force constant</i>	-	-	-	-	-	<i>Seminar</i>	<i>1</i>	<i>Yes</i>	-
			<i>anharmonicity constant</i>	-	-	-	-	-	-	-	-	-
			<i>Simultaneous vibrational-rotational spectra of</i>	-	-	-	-	-	-	-	-	-
<i>Aug</i>	<i>3rd</i>	<i>4hrs</i>	<i>diatomic molecules (PQR spectrum) selection rules.</i>	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <i>Dr. G. Ramu</i>					CLASS: <i>I msc organic chem</i>				Semester: <i>I sem</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>Aug</i>	<i>4th</i>	<i>4hrs</i>	<i>Unit-IV Types of electronic transitions in organic molecules</i>	-	-	-	-	-	-	-	-	-	-
			<i>Examples</i>	-	-	-	-	-	-	-	-	-	-
<i>Sep</i>	<i>1st</i>	<i>4hrs</i>	<i>Raman spectra: Stokes, anti-stokes lines, Raman shift 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>2nd</i>	<i>3hrs</i>	<i>Raman spectra and what are necessary conditions</i>	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR

PLAN (Year)

CLASS: Msc organic chemistry Semester: I


Paper: I- General chemistry

NAME OF THE LECTURER: Dr. G. Ramu

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	
			Rotational Raman and vibrational	Applications of Pure Raman	-	-	-	-	-	-	-	-	-
Sep	3 rd	4hrs	Raman Spectra. charge transfer spectra with examples. Introduction spectro.	Rotational & vibrational Raman Spectra	-	-	-	-	-	-	-	-	-
			frank - Condon Principle: diagrams statement, explanation. vibrational course structure, diagram.		-	-	-	-	-	-	-	-	-
Sep	4 th	4hrs	selection rules spectrum		-	-	-	-	-	-	-	-	-

Assignment

1 Yes


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CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <i>Dr G. Ramu</i>					CLASS : <i>DNsc organic chemistry</i> Semester : <i>2</i>				Paper : <i>2 - General chemistry</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
Oct	1st	2hrs	Rotational fine structure - Definition, Derivation.	-	-	-	-	-	-	-	-	-
			Band-Head Det Band-shading Band-origin.	-	-	-	-	-	-	-	-	-
			Total spectrum, S-R diagram with explanation.	-	-	-	-	-	-	-	-	-
Oct	2nd		Revision									
			Revision									
			Revision									

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CURRICULUM LECTURER WISE 2019-2020

PLAN (Year)

ANNUAL CURRICULAR					CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <i>Dr. G. Ramu</i>					CLASS: <i>I M.Sc</i>				Semester: _____ Paper: _____			
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
<i>Oct</i>	<i>2nd</i>		<i>Revision</i>									
<i>Oct</i>	<i>3rd</i>		<i>Revision</i>									

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CURRICULUM LECTURER WISE 2019-2020

PLAN (Year)

Inorganic chemistry

ANNUAL CURRICULAR					CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER B. VIRITHA					CLASS : 1MSc				Semester : 2			
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
June	1 st	2hrs	Introduction- Structure & Bonding - Applications of VSEPR Valence bond theory and molecular orbital theory in explaining the structure of simple molecules	Explanation of simple molecule M.O diagram	-	-	-	-	-	-	-	-
				Calculation of Bond order	-	-	-	-	-	-	-	-
July	1 st	2hrs	role of p and d orbitals in π bonding. Applications of MO theory 2- to tetrahedral (CoCl ₄) ²⁻	Magnetic behaviour of complexes	-	-	-	-	-	-	-	-
			Square planar (PtCl ₄) ²⁻ octahedral complex (CoF ₆) ³⁻ (Co(NH ₃) ₆) ³⁺	Magnetic behaviour of complexes	-	-	-	-	-	-	-	-
July	2 nd	3hrs	Classification of ligands based on π-bonding using MO theory. waleh diagram for H ₂ O molecule.	-	-	-	-	-	Seminar	3hr	yes	-
				-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2019-2020
PLAN (Year)

'ANNUAL CURRICULAR
 NAME OF THE LECTURER: **B. VIRITHA**

CLASS : **I M.Sc** 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	
July	3 rd	4hrs	Inorganic cage and ring compounds, preparation structure reactions of boranes	Explanation of tetra boranes and	-	-	-	-	-	-	-	-	-
			Carboranes / Metallo Carboranes electron counting in boranes- wedges rule	Penta boranes	-	-	-	-	-	-	-	-	-
			12/13 to 13/12										
			Heterocyclic inorganic ring systems: Boron-Nitrogen ($M_2B_3N_2H_2$)	-	-	-	-	-	-	-	-	-	-
			Phosphorus-Nitrogen ($M_2P_2O_6$) and sulphur Nitrogen ($M_2N_2S_2$) cyclic compounds	-	-	-	-	Assignment	1hr	yes	-	-	
			Cage compounds- phosphorous oxides and phosphorous sulphides	-	-	-	-	-	-	-	-	-	
			Isopoly & heteropoly anions	-	-	-	-	-	-	-	-	-	

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CURRICULUM LECTURER WISE 2019-2020
PLAN (Year)

ANNUAL CURRICULAR					CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: B. VIRITHA					CLASS: I M.Sc Semester: I				Paper: II, Inorganic 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
			Electronic spectra of transition metal complexes - types of Electronic transitions.	Explanation of transition metals and	-	-	-	-	Assignment	1hr	yes	-
Aug	3 rd	4hrs	d-d transitions - selection rules (break down of selection rules of $d-d$ and $f-f$ diagram)	Variations Oxidation states	-	-	-	-				
			for $d-d$ octahedral and tetrahedral transition metal complexes of d series	-	-	-	-	-				
			Calculation of Dq , B , & β parameters Charge transfer spectra	-	-	-	-	-				
Sep	4 th	4hrs	Magnetic properties of transition of inner transition metal complexes - spin and	-	-	-	-	-				
			Orbital moments quenching of orbital momentum by crystal fields in complexes	-	-	-	-	-				

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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR PLAN (Year)					CO-CURRICULAR ACTIVITY							
NAME OF THE LECTURER					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
			preparation and properties of quinoline	uses of quinoline	-	-	-	-	-	-	-	-
Jun	1 st	2hrs	preparation and properties of Iso quinoline	uses of Isoquinoline	-	-	-	-	-	-	-	-
			Electronic effect and reactive intermediate mesomeric effects	-	-	-	-	-	-	-	-	-
			Hyper conjugation, steric effect, tautomerism, reactivity of carbocation and carbanion	-	-	-	-	-	-	-	-	-
July	1 st	4hrs	preparation and properties of pyrrole	uses of pyrrole	-	-	-	-	-	-	-	-
			preparation and properties of oxazole	uses of oxazole	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER					CLASS : <i>F.M.Sc</i>				Semester : <i>I</i>		Paper : <i>III, 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		
July	2 nd	4hrs	properties and synthesis of Isooxazole and pyrazole	uses of pyrazole	-	-	-	-	-	-	-	-	-	
			Synthesis and properties of Imidazole.	-	-	-	-	-	-	-	-	-	-	
			pyridazine, pyrimidine, pyrazine	-	-	-	-	-	-	-	-	-	-	-
July	3 rd	4hrs	reactivity of free radicals, carbene, nitrenes and carynes	-	-	-	-	-	-	-	-	-	-	
			Criteria for aromaticity Huckel's rule and MO theory, aromaticity	will be shown MO theory of Aromaticity	-	-	-	-	-	-	-	-	-	
			In benzenoid & Non benzenoid Compounds in conjugated and fused ring system	PPPT presentation.	-	-	-	-	-	-	-	-	-	

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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR PLAN (Year)					CLASS : <u>I MSc (Org)</u> Semester : <u>I</u> Paper : <u>IV (Organic chemistry)</u>							
NAME OF THE LECTURER : <u>Dr. B. Valli Purima</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
			Hetero aromatic system, Annulenes cyclobutadiene	-	-	-	-	-	-	-	-	-
July	4th	4hrs	Benzene 1,3,5,7-cyclooctatetraene [10] Annule [12]	-	-	-	-	-	-	-	-	-
			[14] [16] and [18] fullerenes, fullerenes, porphyrane anti aromaticity	structures and uses of fullerenes.	-	-	-	-	-	-	-	-
			Synthesis of Atropine, Nicotine.	-	-	-	-	-	-	-	-	-
Aug	1st	4hrs	and Quinine isolation and their structure elucidation	-	-	-	-	-	-	-	-	-
			Synthesis and bio genesis of α -Terpenol	uses of α -Terpenol	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER					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
			Inductive & mesomeric effect Hyperconjugation	Inductive effect applications	-	-	-	-	-	-	-	-
Aug	2 nd	4 hrs	steric effect, Tautomerism, reaction intermediates	-	-	-	-	-	student seminar on Aromaticity	01	yes	-
			Synthesis and biogenesis of α -Terpenes	-	-	-	-	-	-	-	-	-
Aug	3 rd	4 hrs	α -pinene and Camphor	uses of Camphor	-	-	-	-	-	-	-	-
Aug	4 th	4 hrs	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 2019-2020

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER					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
Sep	1 st	3hrs	Dastomers, Invert-omer, Homomer, Epimer, Anomer	Examples of epimers and Anomers	-	-	-	-	-	-	-	-
			Configuration and Conformation D, L & R, S nomenclature	-	-	-	-	-	-	-	-	-
Sep	2 nd	4hrs	Tetra and Bi Coordinate chiral centre	-	-	-	-	-	-	-	-	-
			Geometrical isomerism cis-trans E,Z & syn and anti	-	-	-	-	-	-	-	-	-
Sep	3 rd	4hrs	Geometrical isomers methods, cis-trans inter conversion	-	-	-	-	-	-	-	-	-
			prochirality and Prostero isomerism Homotopic ligands.	-	-	-	-	-	-	-	-	-

B.V. Purima
Signature of the Lecturer

B.V. Purima
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER					CLASS : I MSc (Org)				Semester : I				Paper : III (Organic 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				
			and faces Stereo isomerism in molecules without	-	-	-	-	-	-	-	-	-				
SEP	4th	4hrs	chiral centre - Axial chirality alkenes alkylidene & cyclo	-	-	-	-	-	-	-	-	-				
			alkenes, Atropoisomerism Biphenyl derivatives	-	-	-	-	-	-	-	-	-				
OCT	1st	2hrs	Planar chirality Ansa compounds trans cyclooctene	Remedial class	-	-	-	-	-	-	-	-				
			and helicity	-	-	-	-	-	-	-	-	-				
OCT	2nd		Revision	-	-	-	-	-	-	-	-	-				

B.V. Purnima
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR PLAN (Year)					CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY							
NAME OF THE LECTURER					CLASS				Semester				Paper			
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				
Jun	1st	2hrs	<u>UNIT-I</u> Introduction to thermodynamics	Basic terms used in TD	-	-	-	-	-	-	-	-				
			Concept of Partial molar Properties.	& their symbols Relations among	-	-	-	-	-	-	-	-				
			Partial molar Volume and its significance	Various therm Properties.	-	-	-	-	-	-	-	-				
July	1st	4hrs	Determination of Partial molar volume by		-	-	-	-	Assignment	1	Yes	-				
			Graphical method derivation, intercept		-	-	-	-	-	-	-	-				
			method - derivation; apparent molar volume method.		-	-	-	-	-	-	-	-				

C.R. Sahu
Signature of the Lecturer

B.V. Prasad
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019-2020

PLAN (Year)

ANNUAL CURRICULAR
 NAME OF THE LECTURER: Dr. G. R. Satyanarayana

CLASS : I M-SC

Semester : I

Paper : IV, Physical

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
July	2 nd	4hrs	Partial molar free energy - chemical Potential, Variation of μ with T & P	-	-	-	-	-	-	-	-	-	-
			Gibbs Duhem eq ⁿ derivation Significa	-	-	-	-	Seminar	1	yes	-	-	-
			Phase equilibra & derivation of Gibbs phase rule: Ideal	-	-	-	-	-	-	-	-	-	-
July	3 rd	4hrs	& non-ideal solutions Thermodynamic pro's of mixing of ideal sol ⁿ s	-	-	-	-	-	-	-	-	-	-
			Vapour pressure - Raoult's law and	-	-	-	-	-	-	-	-	-	-
			Hendry's law - Concept of fugacity and activity, P's coeffic	-	-	-	-	-	-	-	-	-	-

G.R. Satyanarayana
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2019-2020

PLAN (Year)

ANNUAL CURRICULAR

NAME OF THE LECTURER

Dr. G. R. Satyanarayana

CLASS : I.M.Sc

Semester : I

Paper : IV, Physical Chemistry

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	
July	4 th	4hrs	Determination of fugacity. Determination of activity coefft. from vapour pressure method and Gibbs-Duhem equation	-	-	-	-	-	-	-	-	-	-
			Chemical equilibrium Van't Hoff isotherm Van't Hoff isochore	-	-	-	-	-	-	-	-	-	-
			<u>UNIT-II</u> Surface active agents classification of S.A.A	-	-	-	-	-	Assignment	1	Yes	-	-
	5 th	4hrs	Definition of micelles and macromolecules. micellisation.	-	-	-	-	-	-	-	-	-	-
			Hydrophobic interaction. Critical micellar concentration (CMC).	-	-	-	-	-	-	-	-	-	-

C.R. Satyanarayana
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <i>Dr. G.R. Satya Narayana</i>					CLASS: <i>T Msc (Org. Chemistry)</i> Semester: <i>T</i>				Paper: <i>IV (Physical Chemistry)</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
			<i>factors affecting the CMC of surfactants.</i>									
			<i>thermodynamics of micellisation.</i>									
<i>July</i>	<i>5th</i>		<i>Phase Separation and mass-action models, Solubilization</i>	<i>Definitions of phase,</i>					<i>Seminar</i>		<i>Yes</i>	
			<i>Micro Emulsion, reverse micelles</i>	<i>number of components.</i>								
			<i>Polymers - definition types of Polymers.</i>	<i>Examples of different types of polymerisation.</i>								
			<i>Polymerisation - classification. Elect- rical conducting fibre resistant, liquid.</i>									

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: <i>Dr. G.R. Satya Narayana</i>					CLASS: <i>I (Msc)</i>				Semester: <i>I</i>		Paper: <i>IV, Physical 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>Aug</i>	<i>1st</i>	<i>4hrs</i>	<i>Crystal Polymers</i>	-	-	-	-	-	-	-	-	-	-	
			<i>Number and weight average molecular weights definition</i>	-	-	-	-	-	-	<i>Assignment</i>	1	Yes	-	
			<i>molecular weight determination by osmometry, viscometry</i>	-	-	-	-	-	-	-	-	-	-	
			<i>MW. determination by ultracentrifugation.</i>	-	-	-	-	-	-	-	-	-	-	
			<i>Method, light scattering methods.</i>	-	-	-	-	-	-	-	-	-	-	
<i>Aug</i>	<i>2nd</i>	<i>2hrs</i>	<u><i>UNIT - III</i></u> <i>Introduction to Chemical Kinetics.</i>	-	-	-	-	-	-	-	-	-	-	

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 20¹⁹-2020

ANNUAL CURRICULAR					PLAN (Year)				CURRICULAR ACTIVITY			
NAME OF THE LECTURER					CLASS : I, Msc (organic chemistry)				Semester : 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
			Theories of reac ⁿ rates Collision theory - limitations, derivation	Definitions of rate of reac ⁿ rate const.								
Aug	2 nd	2hrs	Transition state theory: -thermodynan and Statistical						Assignment	1	Yes	
			derivation of rate constants. Definition of ionic strength.									
			Debye - Huckel theory: - explanation.									
Aug	3 rd	3hrs	Primary and Secondary salt Effects									
			Double sphere model: Effect of dielectric const.									

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER <i>Dr. G.R. Satyanarayana</i>					CLASS : <i>I MSc (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>Aug</i>	<i>4th</i>		<i>Effect of substituents Hammett ρ^+-limita- tions, Taft Equations.</i>	-	-	-	-	-	-	-	-	-	-
			<i>Rate constants of consecutive reacⁿ Parallel reactions</i>	-	-	-	-	-	-	<i>Seminar</i>	<i>1</i>	<i>Yes</i>	-
		<i>4hrs</i>	<i>Opposing reactions. General and specific</i>	-	-	-	-	-	-	-	-	-	-
			<i>Acid-Base catalysis. Skrabal diagram. Fast reactions.</i>	-	-	-	-	-	-	-	-	-	-
			<i>Flow methods for studying fast reac^{ns}</i>	-	-	-	-	-	-	-	-	-	-
			<i>Relaxation methods : Temperature jump and pressure</i>	-	-	-	-	-	-	-	-	-	-

G.R. Satyanarayana
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

PLAN (Year)

ANNUAL CURRICULAR

NAME OF THE LECTURER Dr. G. R. Satya Narayana

CLASS : I Msc (Org. 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	Whether Conducted	if not Alternate Date		
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date								
Sep	1 st	4hrs	Jump methods. <u>UNIT - II</u> Introduction to Photochemistry.													
			Francck - Condon Principle . singlet Triplet states.	Definitions of fluorescence,												
			Jablanski diagram	Phosphorescence and their applications												
Sep	2 nd	4hrs	Spin-orbit interaction . Quantum yield , reasons for low and high Q.Y.													
			Experimental determination . Actinometer - ferrioxalate and													

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <i>Dr. G.R. Satyanarayana</i>					CLASS: <i>I Msc, 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>Sep</i>	<i>3rd</i>	<i>4hrs</i>	<i>Uranyl oxalate actinometers.</i>	-	-	-	-	-	-	-	-	-	-
			<i>Derivation of fluorescence and phosphorescence quantum yields.</i>	-	-	-	-	-	-	-	-	-	-
			<i>Quenching effect Stern-Volmer Eqⁿ.</i>	-	-	-	-	-	-	-	-	-	-
<i>Sep</i>	<i>4th</i>	<i>4hrs</i>	<i>Derivation, S.V. constant, deviations.</i>	-	-	-	-	-	-	-	-	-	-
			<i>Delayed fluorescence :- E-type & P-type</i>	-	-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <i>Dr. G. R. Satya Narayana</i>					CLASS: <i>I Msc 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	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Oct	1 st	2hrs	Types of photo chemical reactions	-	-	-	-	-	-	-	-	-
			photodissociation (b) photo fragmentation	-	-	-	-	-	-	-	-	-
			Photo addition reactions and isomerisation reac ⁿ	-	-	-	-	-	-	-	-	-
			mechanisms with examples.	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-

G. R. Satya
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER					CLASS : III rd sem (organic chem) Semester : III				Paper : I (OR) & II (OR) & III (OR) & IV (OR)					
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		
Jun	1 st	4hrs	Unit - I NGIP by Bromine, Phenyl, G, Ti, cyclopro	definition of NGIP and its	—	—	—	—	—	—	—	—	—	—
			- p _{yl} group, SN at allylic carbon	types definition of	—	—	—	—	—	—	—	—	—	—
Jun	2 nd	4hrs	SN at aliphatic tertiary carbon, vinyllic	electrophile nucleophile	—	—	—	—	semphor	4hr	yes	—	—	—
			carbon, ambident nucleophiles, Hyd.	and their uses in the	—	—	—	—	—	—	—	—	—	—
			of esters.	reactions.	—	—	—	—	—	—	—	—	—	—
Jul	1 st	4hrs	reac. of ester formation of COOH with O ₃	—	—	—	—	—	—	—	—	—	—	—

Ch. Bhuvan
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

PLAN (Year)

ANNUAL CURRICULAR					CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <u>ch. Bhuvaneshwari</u>					CLASS: <u>I M.Sc (Organic Chem)</u> Semester: <u>III</u>				Paper: <u>I (ORG 19 & 20 of organic chem)</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
July	1 st	4hrs	major's syn. of alds, ketones & coolt	—	—	—	—	—	—	—	—	—
			nitrobenzene, von, Brauh's reagent	—	—	—	—	—	Assignment	1hr	yes	—
			se ² , se ¹ , se ⁰ , H ⁺ as electrophiles	Discussion of electrophile	—	—	—	—	—	—	—	—
July	2 nd	3hrs	regioselectivity of double bonds, N ⁺	nucleophile substitution	—	—	—	—	—	—	—	—
			halogen e ⁻ , ald, ketones, sulphones	E elimination reactions	—	—	—	—	—	—	—	—
	3 rd	4hrs	coupling, diazo transfer	with their applications	—	—	—	—	seminar	1hr	yes	—

ch. Bhuv
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Signature of the Principal

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <i>ch. Bhuvaneshwari</i>					CLASS: <i>B.Sc. Org. Chem</i> Semester: <i>III</i>				Paper: <i>CO-1 & CO-2</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	
July	4 th	4hrs	reac ⁿ , decarboxyla- -lation of alpha -keto	-	-	-	-	-	-	-	-	-	-
			acids, pKa ⁿ values Haller Bauer reac ⁿ	-	-	-	-	-	-	-	-	-	-
July	5 th	4hrs	<u>UNIT-II</u> topology & nomen	introduction of stereochem ^s	-	-	-	-	Assignment	4hrs	yes	-	-
			-closure rules. Analytical methods	-stoy, symme -try, assym -try	-	-	-	-	-	-	-	-	-
Aug	1 st	4hrs	stereo selectivity e.e.%, D.E., %	Asymme- trical induction &	-	-	-	-	-	-	-	-	-
Aug	2 nd	4hrs	optical purity, specific rotation.	types, uses	-	-	-	-	-	-	-	-	-

ch. Bhuvaneshwari
Signature of the Lecturer

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

PLAN (Year)

ANNUAL CURRICULAR					CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <u>Ch. Bhuvaneshwari</u>					CLASS: <u>B.A.Sc (Co-ordinate Chem)</u> Semester: <u>III</u>				Paper: <u>I (OR) & Descriptive 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
Aug	3 rd	4hrs	Chiral NMR, solvent reagents, HPLC	chemo selectivity & Regio selectivity	—	—	—	—	—	—	—	—
			Chiral derivatizing agents,	—	—	—	—	—	Seminar	1hr	yes	—
			Revision for MID exams	—	—	—	—	—	—	—	—	—
Aug	4 th	4hrs	MID exams	—	—	—	—	—	—	—	—	—
			MOF - <u>MOF</u>	Introduction of porphyrin	—	—	—	—	—	—	—	—
			MOF - orbital sym of porphyrin	—	—	—	—	—	Assignment	1hr	yes	—
			MOF of ethylene, 1,3-butadiene	reactions & their types	—	—	—	—	—	—	—	—

Ch. Bhuvaneshwari
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>Ch. Bhuvaneshwari</u>					CLASS: <u>M.Sc (Organic Chem)</u> Semester: <u>III</u>				Paper: <u>I (ORG-III) Prof. <u>Bhuvaneshwari</u></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	
Sep	1 st	4hrs	1,3,5 Hexatriene, allyl system, π 4n+2 electrons	and how they close formed with some examples	—	—	—	—	—	—	—	—	—
			cyclo addition rxns, (2+2) addition of	—	—	—	—	—	—	—	—	—	—
			ketenes, allyl system	—	—	—	—	—	—	—	—	—	—
Sep	2 nd	3hrs	chelotropic rxns, suprafacial, π 4n+2	—	—	—	—	—	—	—	—	—	—
			-facial terms, Woodward rules	—	—	—	—	—	—	—	—	—	—
Sep	3 rd	4hrs			—	—	—	—	—	—	—	—	—

Ch. Bhuvaneshwari
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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER: <u>Ch. Bhuvaneshwari</u>					CLASS: <u>B.Sc. Co-ordinate Chem</u> Semester: <u>III</u>				Paper: <u>1 (ORIG. & REVERSE REACTIONS)</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
sep	4 th	4hrs	<u>UNIT - II</u> <u>PROG. FMO</u>	<u>introduction of types of sheets</u>	—	—	—	—	<u>seminar</u>	<u>1hr</u>	<u>yes</u>	—
oct	1 st	2hrs	<u>sigmaalopic sheets</u>	<u>explanation of (1,3), (1,5) sheets</u>	—	—	—	—	—	—	—	—
			<u>3 named reagents</u> <u>claisen, cope</u>	<u>Diels Alder reaction</u>	—	—	—	—	—	—	—	—
oct	2 nd		<u>Barton, carbon moieties</u>	—	—	—	—	—	—	—	—	—
			<u>CRVJ & MOO exams</u>	—	—	—	—	—	—	—	—	—
			<u>REVISION OF Q.P.</u>	—	—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

(Organic Chemistry)
Spectroscopy II

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER					CLASS : M.Sc Organic Chem Semester: III				Paper : 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
June	1w	2hrs	UNIT-I ① Calculation of λ_{max} values using Woodward-Fieser rules		-	-	-	-	-	-	-	-
			λ_{max} values using Woodward-Fieser rules		-	-	-	-	Seminar	1hr	yes	-
			② Applications, solvent effects, geometrical isomerism		-	-	-	-	-	-	-	-
July	1w	2hrs	③ Calculation of λ_{max} values using Woodward-Fieser rule		-	-	-	-	-	-	-	-
			acid & Base effects ④ Beer Lambert's Law Instrumentation		-	-	-	-	Assignment	1hr	yes	-
			Energy transitions, Chromophores-Auxochrome		-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <u>Dr. B. Valli Purima</u>					CLASS: <u>II M.Sc</u> Semester: <u>III</u>				Paper: <u>Organic Spectroscopy</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
			Absorption shifts, or absorption of Alkenes-polyenes		-	-	-	-	-	-	-	-
July	1 st	2hrs	<u>UNIT-II</u> A) Fundamental modes of vibrations, factors effecting vibrational freqn.		-	-	-	-	-	-	-	-
			Hydrogen Bonding, Mechanics of Measurement		-	-	-	-	-	-	-	-
			B) Fingerprint region, importance typical group freqn's -CH, OH,		-	-	-	-	Seminar	1hr	yes	-
			NH, C=C and Aromatic Systems- Applications		-	-	-	-	-	-	-	-
July	3 rd	4hrs	IR-Structural determination- Examples.		-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2019 - 2020
PLAN (Year)

ANNUAL CURRICULAR					CO-CURRICULAR ACTIVITY									
NAME OF THE LECTURER: <u>Dr. B. Valli Purnima</u>					CLASS: <u>II M.Sc</u>				Semester: <u>III</u>		Paper: <u>II, Organic Spectroscopy</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		
			IR - simple problems		-	-	-	-	Assignment	1hr	yes	-		
			<u>UNIT-A</u> Calculation of λ_{max} values using.		-	-	-	-						
			woodward-riescher rules (Revision) IR - problems		-	-	-	-						
July	4 th		MID-EXAMS		-	-	-	-						
			<u>UNIT-III</u> Ⓐ Basic principle of NMR, Instrumentation.		-	-	-	-	Seminar	1hr	yes	-		
			Ⓑ Shielding & deshielding. Chemical shift & measurements		-	-	-	-						

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <u>Dr. B. Valli Purnima</u>					CLASS: <u>II M.Sc</u> Semester: <u>III</u> Paper: <u>II, Organic Spectroscopy</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
Aug	1 st	2hrs	factors influencing chemical shift, spin-spin interactions factors influencing		-	-	-	-	-	-	-	-
			Coupling constant		-	-	-	-	Assignment	1hr	yes	-
			① CNMR, similarities & differences of PMR		-	-	-	-	-	-	-	-
			CMR, typical examples of CMR Spectroscopy - simple system.		-	-	-	-	-	-	-	-
Aug	3 rd	4hrs	UNIT-IV		-	-	-	-	-	-	-	-
			① EI, CI, ES, MALDI FAB		-	-	-	-	-	-	-	-
			factors affecting fragmentation.		-	-	-	-	-	-	-	-
		② Molecular ion peak, meta stable peak, Base peak		-	-	-	-	Seminar	1hr	yes	-	

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

PLAN (Year)

ANNUAL CURRICULAR

NAME OF THE LECTURER

Dr. B. Valli Purnima

CLASS : *II M.Sc*

Semester : *III*

Paper : *II, Organic Spectroscopy*

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>Mc Cafferty rearrangement, Nitrogen rule.</i>		-	-	-	-	-	-	-	-	-
			<i>II-MID EXAMS</i>		-	✓	✓	✓	-	-	-	-	-
<i>Sep</i>	<i>4th</i>	<i>4hrs</i>	<i>Examples of Mass Spectral fragmentation of Organic Compounds problems</i>		-	-	-	-	-	-	-	-	-
			<i>Revision.</i>		-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER B.S.N. Murthy					CLASS : II M.Sc. (org. chem) Semester: III				Paper : III modern org. synthesis				
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	
Jun	1 st	2hrs	<u>Unit-I</u> Aldol react ⁿ , Zimmerman traxler model.	Enolate & its formation,	-	-	-	-	-	-	-	-	-
			Stork enamine react ⁿ & its application	Aldol reaction Introduction.	-	-	-	-	Seminar	1hr	Yes	-	-
July	1 st	4hrs	Baylithilzman reaction.	of coupling reaction &	-	-	-	-	-	-	-	-	-
	July	2 nd	4hrs	org. palladium chem. & org. copper chem.	its types.	-	-	-	-	-	-	-	-
			org. Sulphur chem. carbonyl, carbonyls	-	-	-	-	-	-	-	-	-	-
July	3 rd	4hrs	<u>Unit-II</u> E1, E2 reactions with 3 rules.	-	-	-	-	-	Assignment	1hr	Yes.	-	-

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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <i>B.S.N. Murthy</i>					CLASS : <i>II (M.Sc. Org. Chem)</i> Semester : <i>III</i>				Paper : <i>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
July	4th	4hrs	Pyrolytic syn elimination reaction	De-finition of elimination reactions &	-	-	-	-	-	-	-	-
			Sulphoxide-sulphenate rearrangement	its types.	-	-	-	-	-	-	-	-
Aug	1st	4hrs	5 Named reactions, Metathesis &	-	-	-	-	-	Seminar	1hr	yes	-
			Grubbs catalyst & 2 types of	-	-	-	-	-	-	-	-	-
Aug	2nd	4hrs	reagents.	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: <u>B. S. N. Murthy</u>					CLASS: <u>II M.Sc (Org. Chem)</u> Semester: <u>III</u> Paper: <u>III (Modern Org. Syn)</u>				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		
Aug	3 rd	4hrs	Unit-III HLF, Barton photolysis	Definitions of photolysis,	-	-	-	-	-	-	-	-	-	-
			of organic hypohalites	protonolysis and their reactions.	-	-	-	-	-	-	-	-	-	-
Aug	4 th	4hrs	Preparations & mech. of organoboranes	Boranes introduction	-	-	-	-	Seminar	1hr	Yes	-	-	-
Sep	1 st	3hrs	functional group transformation of	and explanation and difference	-	-	-	-	-	-	-	-	-	-
			organoboranes - oxidation, Isomerisation.	between Alkenyl, Terminal, Internal.	-	-	-	-	-	-	-	-	-	-
Sep	2 nd	4hrs	protonolysis, carbonylation (half)	Alkynyl Boranes	-	-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER B. S. N. Murthy					CLASS : II M.Sc (Org. Chem) Semester : III				Paper : III (Modern organic synthesis)			
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
Sep	3 rd	4hrs	Carbonylation & Cyanoboration.	-	-	-	-	-	-	-	-	-
Sep	4 th	4hrs	<u>Unit IV</u> protecting groups of alcohols	Definition of Umpolung character	-	-	-	-	Assignment	1hr	Yes	-
			protection of 1,2 diols & amines (2 types)	-	-	-	-	-	-	-	-	-
Oct	1 st	2hrs	protection of amines, COOH,	microwave technology	-	-	-	-	-	-	-	-
Oct	2 nd		PTC & crown ethers	introduction.	-	-	-	-	-	-	-	-
			I-MID EXAMS.	-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)				CHEMISTRY OF NATURAL PRODUCTS - I				
NAME OF THE LECTURER: CHAIBHUVANESWARI					CLASS: II. MSc. org. chem Semester: III				Paper: IV				
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	
Jun	1 st	2hrs	UNIT - I Structure, stereochemistry, synthesis of Morphine.		—	—	—	—	—	—	—	—	—
			Structure, stereochemistry, syn ⁿ of Strychnine.		—	—	—	—	—	—	—	—	—
July	1 st	4hrs	Structure, stereochemistry, syn ⁿ of Colchicine.		—	—	—	—	Seminar	1hr	yes	—	—
			Structure, stereochemistry, syn ⁿ of Reserpin.		—	—	—	—	—	—	—	—	—
July	2 nd	4hrs	UNIT - II Isoprene rule, Isolation.		—	—	—	—	—	—	—	—	—
			Structure determination of Farnesol.		—	—	—	—	Assignment	1hr	yes.	—	—

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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: CH. BHUVANESWARTI					CLASS: II M.Sc	Semester: III	Paper: Chemistry of Natural Products					
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
July	3 rd	4hrs	Stereochemistry & syn ⁿ of Farnesol.		—	—	—	—	—	—	—	—
			Structure, stereochemistry syn ⁿ of β -amylin.		—	—	—	—	—	—	—	—
July	4 th	4hrs	Structure, stereochemistry of Taxol.		—	—	—	—	Seminar	1hr	yes	—
			Synthesis & biosynthesis of Taxol.		—	—	—	—	—	—	—	—
July	5 th	4hrs	Structure, stereochemistry of Zingiberene		—	—	—	—	—	—	—	—
			Synthesis & Bio-synthesis of Zingiberene		—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2019 - 2020

chemistry of Natural products

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <i>CH. BHUVANESWARI</i>					CLASS: <i>II Msc Organic chemistry</i> Semester: <i>III</i> Paper: <i>III</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
			Structure, stereo-chemistry of Forskolin		—	—	—	—	—	—	—	—
<i>Aug</i>	<i>1st</i>	<i>4hrs</i>	Synthesis & Biosynthesis of Forskolin.		—	—	—	—	—	—	—	—
			Structure, stereo-chemistry of Azadirachtin.		—	—	—	—	<i>Assignment</i>	<i>1hr</i>	<i>yes</i>	—
			Synthesis & Biosynthesis of Azadirachtin		—	—	—	—	—	—	—	—
			I - MID EXAMS.		—	—	—	—	—	—	—	—
<i>Aug</i>	<i>2nd</i>		<u>UNIT - III</u> occurrence, nomenclature.		—	—	—	—	<i>Seminar</i>	<i>1hr</i>	<i>yes</i>	—

Ch. Bhuvan
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S. Sridhar
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020
PLAN (Year)

ANNUAL CURRICULAR					CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <u>CH. BHUVANESWARI</u>					CLASS : <u>II M.Sc.</u>				Semester : <u>III</u> Paper :			
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
Aug	2 nd	4hrs	Basic skeleton, Diet's hydrocarbon & Pts stereochemistry.		—	—	—	—	—	—	—	—
			Isolation, structure, synthesis of cholesterol.		—	—	—	—	—	—	—	—
Aug	3 rd	3hrs	Synthesis of cholesterol		—	—	—	—	—	—	—	—
			Structure of Androsterone		—	—	—	—	Assignment	1hr	yes	—
			Synthesis of Androsterone.		—	—	—	—	—	—	—	—
Aug	4 th	4hrs	Structure and synthesis of Testosterone		—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

Chemistry of Natural
 Products

ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER: CH. BHUVANESWARI					CLASS: II M.Sc				Semester: III		Paper: IV			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				
SEP	1 st	4hrs	Structure and Synthesis of Progesterone		—	—	—	—	—	—	—	—				
			UNIT-IV occurrence, nomenclature & general methods.		—	—	—	—	Seminar	1hr	yes	—				
SEP	2 nd	4hrs	Isolation, structure of Kaempferol		—	—	—	—	—	—	—	—				
			Synthesis of Kaempferol.		—	—	—	—	—	—	—	—				
			Structure, synthesis of Quercetin.		—	—	—	—	—	—	—	—				
SEP	3 rd	4hrs	Structure, synthesis of Cyanidin		—	—	—	—	—	—	—	—				

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020

PLAN (Year)

Semester: III Paper: IV, Chemistry of Natural Products

ANNUAL CURRICULAR

NAME OF THE LECTURER

CH. BHUVANESWARTI

CLASS: II M.Sc

CURRICULAR ACTIVITY

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	
Sep	4 th	4hrs	Structure, synthesis of Genestein		—	—	—	—	—	Assignment	1hr	yes	—
			Structure, synthesis of Butein		—	—	—	—	—	—	—	—	—
Oct	1 st	2hrs	Structure, synthesis of Daidzein		—	—	—	—	—	—	—	—	—
			Biosynthesis of flavonoids & Isoflavonoids		—	—	—	—	—	—	—	—	—
					—	—	—	—	—	—	—	—	—
					—	—	—	—	—	—	—	—	—

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