

2020-2021 300

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)				Paper : I General Chemistry			
NAME OF THE LECTURER <i>Dr. G. Ramu</i>					CLASS : <i>B.Sc Organic Chemistry Semester : II</i>				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
<i>May</i>	<i>4th</i>		<i>UNIT-1</i> <i>Hydrogen atom- Solutions of R(x) eqn</i>	—	—	—	—	—	—	—	—	—
		<i>4 hrs</i>	<i>$\psi(r, \theta, \phi)$ eqns Probability density and shapes of orbitals</i>	—	—	—	—	—	—	—	—	—
			<i>Perturbation theory derivation and</i>	—	—	—	—	—	—	—	—	—
			<i>its application to He atom. Variation theorem and</i>	—	—	—	—	—	—	—	—	—
<i>JUN</i>	<i>1st</i>		<i>its application to Harmonic oscillator</i>	—	—	—	—	—	—	—	—	—
		<i>2 hrs</i>	<i>many e⁻ atom Hartree-Fock self consistent field method.</i>	—	—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <i>Dr. G. Ramu</i>					CLASS : <i>Msc Organic Chemistry</i> Semester : <i>II</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>JAN</i>	<i>2nd</i>		<i>UNIT-11</i> <i>Group theory Intro</i> <i>symmetry Def. Elements</i>	—	—	—	—	—	—	—	—	—
		<i>3hrs</i>	<i>Operations and</i> <i>point group classifica</i> <i>tion with</i>	—	—	—	—	—	—	—	—	—
<i>JUN</i>	<i>3rd</i>		<i>Schroenflies symbols</i> <i>Axioms of Group</i> <i>theory.</i>	—	—	—	—	—	—	—	—	—
		<i>4hrs</i>	<i>Group multiplication</i> <i>tables for C_{2v} &</i> <i>C_{3v} point groups</i>	—	—	—	—	—	—	—	—	—
<i>JAN</i>	<i>4th</i>		<i>Similarity transforma</i> <i>tion and classes</i> <i>Representations</i>	—	—	—	—	—	—	—	—	—
		<i>2hrs</i>	<i>RR and IRR's</i> <i>Mullikan Symbols</i>	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <i>Dr. G. Ramu</i>					CLASS <i>MSc Organic Chemistry</i> Semester: <i>II</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
Jul	1 st	2hrs	Orthogonality Thm and its implications	—	—	—	—	—	—	—	—	—
Jul	2 nd	2hrs	Gvfv Character tables and its anatomy	—	—	—	—	—	—	—	—	—
			<u>UNIT-IV</u> Errors, Accuracy precession.	—	—	—	—	—	—	—	—	—
JUL	3 rd	3hrs	Classification of errors, its minimisation.	—	—	—	—	—	—	—	—	—
			Absolute, Relative errors. propagation of errors.	—	—	—	—	—	—	—	—	—
Jul	4 th	4hrs	Gaussian distribution Central tendency st, deviation.	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER <i>Dr. G. Ramu</i>					CLASS : <i>P Msc Organic Chemistry</i> Semester : <i>D</i>				Paper : <i>2</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>1st</i>	<i>3hrs</i>	<i>Mean, Median Hypothesis : t and F test</i>	—	—	—	—	—	—	—	—	—	—
			<i>Criteria of Rejection Significant figures and Computation rules</i>	—	—	—	—	—	—	—	—	—	—
			<i>UNIT-IV Introduction of Computer parts</i>	—	—	—	—	—	—	—	—	—	—
<i>Aug</i>	<i>2nd</i>	<i>2hrs</i>	<i>Computer memories Languages, Algorithms</i>	—	—	—	—	—	—	—	—	—	—
			<i>Flowcharts - Const and Variables Statements : IF</i>	—	—	—	—	—	—	—	—	—	—
<i>Aug</i>	<i>3rd</i>	<i>3hrs</i>	<i>types, GOTO DIMENSION, DO Statements</i>	—	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER <i>Dr. G. Ramu</i>					CLASS : <i>B. Sc Organic Chemistry</i> Semester : <i>II</i>				Paper : <i>I</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>2hrs</i>	<i>Development of FORTRAN statements for formulae of diff.</i>	—	—	—	—	—	—	—	—	—	—
<i>Sep</i>	<i>1st</i>	<i>3hrs.</i>	<i>Chemical eqns :- first order rate eqn, standard derivation, Vander wall eqn ---- Flow charts and algorithms</i>	—	—	✓	—	—	—	—	—	—	—
			<i>programs.</i>	—	—	—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020 - 2021

PLAN (Year)

ANNUAL CURRICULAR

CLASS : IMSc Organic Chemistry

Semester : II

Paper : Inorganic Chemistry II

NAME OF THE LECTURER T. Subramanyam

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	4 th	2hrs	Introduction- metal cluster compounds- definition evidences for	-	-	-	-	-	-	-	-	-	-
			existence of M-M bonds - conditions favorable for formation of M-M bonds	-	-	-	-	-	-	-	-	-	-
JUN	1 st		preparation, structure and bonding of $Fe_2Cl_2^{2+}$, $Mo_2Cl_8^{4-}$, $Re_2(RCOO)_2R_2$	-	-	-	-	-	-	-	-	-	-
		4hrs	$Mo_2(RCOO)_4(H_2O)_2$, $Cr_2(RCOO)_4(H_2O)_2$, $Cu_2(RCOO)_2(H_2O)_2$	-	-	-	-	-	-	-	-	-	-
	2 nd	3hrs	$Cr_2Cl_9^{3-}$, $Mo_2Cl_9^{3-}$, $W_2Cl_9^{3-}$, Re_2Cl_9 , $ReCl_2^{3-}$, $MoCl_8^{4-}$	-	-	-	-	-	-	-	-	-	-
	3 rd	2hrs	$Nb_6X_{12}^{2+}$ and $Ta_6X_{12}^{2+}$ polyatomic clusters - zintl ions, Chevrel Phases	-	-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER: <u>T. Subramanyam</u>					CLASS: <u>IMSC Organic Chemistry</u>	Semester: <u>II</u>	Paper: <u>Inorganic Chemistry-II</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
JUN	4 th		organometallic compounds - 16 & 18 electron rules Iso electronic relationship	-	-	-	-	-	-	-	-	-
		2hrs	Synthesis, structure, bonding and reactions of carbon monoxides dinitrogen and nitric oxide complexes	-	-	-	-	-	-	-	-	-
			Isotopic relationship - H_2 , CH_4 , $MnClO_2$, Si , CH_4 , $Fe(O)_2$, P , CH , $CoClO_3$	-	-	-	-	-	-	-	-	-
JUL	1 st		Synthesis structure bonding and reactions of metallocenes	-	-	-	-	-	-	-	-	-
		4hrs	Catalysis by organo metallic compounds - Homogeneous	-	-	-	-	-	-	-	-	-
JUL	2 nd	3hrs	Catalysis - Alkene hydrogenation Wilkinson's catalyst Hydroformylation	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: T. Subramanyam					CLASS: IMSC Organic Chemistry				Semester: I Paper: Inorganic chemistry-II				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	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	2hrs	Metal-ligand equilibria in solution - Stepwise and overall formation constants and their	-	-	-	-	-	-	-	-	-	-
JULY	4 th		interaction - trends in stepwise constants - factors affecting the stability of metal	-	-	-	-	-	-	-	-	-	-
		4hrs	complexes - Pearson's theory of hard and soft acids and bases chelate effect and	-	-	-	-	-	-	-	-	-	-
AUG	1 st	3hrs	its thermodynamic origin, determination of stability constants of complexes	-	-	-	-	-	-	-	-	-	-
			spectrophotometric method, pH-metric method. Reactivity of inert and labile complexes	-	-	-	-	-	-	-	-	-	-
AUG	2 nd	4hrs	explanation of lability on basis of VBT & CFT RD - Inorganic Chemistry.	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: <u>T. Subramanyam</u>					CLASS: <u>1st MSc Organic Chemistry</u>				Semester: <u>II</u> Paper: <u>Inorganic chemistry-II</u>					
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						
Aug	3 rd		Inorganic-reaction mechanism-substitution reactions of metal complexes	—	—	—	—	—	—	—	—	—	—	—
		3 hrs.	D ₂ sp, D ₃ d and A mechanisms ligand replacement reactions of octahedral complexes-Acid hydrolysis	—	—	—	—	—	—	—	—	—	—	—
Aug	4 th	4 hrs	-factors affecting acid hydrolysis-Arrhenius and Base hydrolysis of cobalt (II) complexes ligand displacement reactions of square	—	—	—	—	—	—	—	—	—	—	—
			planar complexes of platinum(II)-factors affecting square planar	—	—	—	—	—	—	—	—	—	—	—
Sep	1 st	2 hrs.	substitution-trans effect-electron transfer reactions of complexes	—	—	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER <i>Dr. B. Valli Pusinima</i>					CLASS : <i>IM.Sc [organic chemistry]</i> Semester : <i>II</i>				Paper : <i>III [ORGANIC CHEISTRY -II]</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>MAY</i>	<i>4th</i>	<i>2hrs</i>	<i>Unit - I Reaction mechanism (A) Aliphatic nucleophilic</i>	—	—	—	—	—	—	—	—	—	—
			<i>Substitution and nucleophilic Aromatic Substitution</i>	—	—	—	—	—	—	—	—	—	—
			<i>Stereo chemistry of SN² & SN¹ mechanisms,</i>	—	—	—	—	—	—	—	—	—	—
<i>JUN</i>	<i>1st</i>		<i>NGP, [neighboring group participation] von Richter sommelet</i>	—	—	—	—	—	—	—	—	—	—
			<i>(B) elimination Reactions Types of elimination reactions, mechanisms</i>	—	—	—	—	—	—	—	—	—	—
<i>JUN</i>	<i>2nd</i>		<i>stutzess rules, syn elimination V & Anti-elimination</i>	—	—	—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)				Paper : III ORGANIC CHEMISTRY - II			
NAME OF THE LECTURER <u>Dr. B Valli Purnima</u>					CLASS : <u>I M.Sc. (Organic Chem)</u> Semester : <u>II</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
	3 rd	4hrs	Unit - II Addition Reactions (A) Addition to carbon-carbon multiple bonds; chemo selectivity, & free radical reaction.	—	—	—	—	—	—	—	—	—
			hydrogenation of double & triple bonds.	—	—	—	—	—	—	—	—	—
	4 th	3hrs	(B) Addition to carbon-hetero multiple bonds	—	—	—	—	—	—	—	—	—
			steric cause of addition reactions to C=O & C=N, Aldol, Cannizzaro, Perkin,	—	—	—	—	—	—	—	—	—
Jul	1 st	2hrs	knoevenagel, claisen	—	—	—	—	—	—	—	—	—
	2 nd	4hrs	-schmidt, claisen mahlich, & Michael rean	—	—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY							
NAME OF THE LECTURER - Dr. B. Valli Purnima					CLASS : IMsc (organic chem)				Semester : II				Paper : III (ORGANIC CHEMISTRY - II)			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date				
	3 rd	4hrs	Unit III Molecular rearrange-ments.	-	-	-	-	-	-	-	-	-				
			Types of molecular rearrangements, migrato-ry aptitude	-	-	-	-	-	-	-	-	-				
	4 th	3hrs	rearrangements of electron deficient carbon	-	-	-	-	-	-	-	-	-				
			Pinacol - pinasdone, Coocher - Meerwein, Tiffeneau - Demjanov	-	-	-	-	-	-	-	-	-				
Aug	1 st	2hrs	Diene - phenal Arndt - Eistert synthesis.	-	-	-	-	-	-	-	-	-				
	2 nd	2hrs	Rearrangements of electron deficient nitrogen Beckmann, Hoffmann, reara-gements.	-	-	-	-	-	-	-	-	-				

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CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <i>Dr. B. Valli Purnima</i>					CLASS: <i>I MSc (Organic Chemistry)</i> Semester: <i>II</i>				Paper: <i>III Organic 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
			<u>Unit IV</u> spectroscopy and protecting groups	—	—	—	—	—	—	—	—	—
<i>Aug</i>	<i>3rd</i>	<i>4hrs.</i>	(i) U.V visible absorption basis, electronic excitations.	—	—	—	—	—	—	—	—	—
			and absorption shifts (ii) IR: fundamental modes of vibrations	—	—	—	—	—	—	—	—	—
<i>Aug</i>	<i>4th</i>	<i>4hrs</i>	(iii) NMR: Chemical shift and its importance,	—	—	—	—	—	—	—	—	—
			coupling constant and its importance,	—	—	—	—	—	—	—	—	—
<i>Sep</i>	<i>1st</i>	<i>2hrs</i>	(iv) Mass: - some useful terms used in mass spectroscopy protecting groups.	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: <i>Dr. G. R. Satyanarayana</i>					CLASS: <i>Msc Organic Chemistry</i> Semester: <i>II</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		
MAY	4 th	4hrs	UNIT-I Principle and theory of NMR	-	-	-	-	-	-	-	-	-	-	-
			chemical shift and its origin. factors affecting chem-shift	-	-	-	-	-	-	-	-	-	-	-
			spin-spin interaction with examples	-	-	-	-	-	-	-	-	-	-	-
JUN	1 st	3hrs	NMR spectra of ethanal, styrene	-	-	-	-	-	-	-	-	-	-	-
			NMR spectra of di methyl formamide & acetophenone	-	-	-	-	-	-	-	-	-	-	-
JUN	2 nd	2hrs	ESR - principle and theory	-	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)				Paper : <u>Physical Chemistry</u>			
NAME OF THE LECTURER <u>Dr. G.R. Satyanarayana</u>					CLASS : <u>Msc Organic Chemistry</u> Semester : <u>II</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
	3 rd	2hrs	Experimental technique - line shapes	—	—	—	—	—	—	—	—	—
			line width and g-factor.	—	—	—	—	—	—	—	—	—
	4 th	3hrs	Hyperfine interactions with diff. examples	—	—	—	—	—	—	—	—	—
Jul	1 st	4hrs	Application of ESR studies.	—	—	—	—	—	—	—	—	—
			<u>UNIT-II</u> Introduction to thermodynamics	—	—	—	—	—	—	—	—	—
	2 nd	3hrs	entropy & its significance entropy changes in different process	—	—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <i>Dr. G.R. Satyanarayana</i>					CLASS : <i>I Msc Organic Chemistry</i> Semester : <i>II</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
			Nernst Heat Thm and II law of Thermodynamics	-	-	-	-	-	-	-	-	-
<i>Jul</i>	<i>3rd</i>	<i>2hrs</i>	Determination of Absolute entropies of solids, liquids, gases-(s) determination. Exceptions to III law of T-D	-	-	-	-	-	-	-	-	-
	<i>4th</i>	<i>2hrs</i>	objectives of statistical thermodynamics - Types of ensembles	-	-	-	-	-	-	-	-	-
			concept of distributions and different laws of distribution	-	-	-	-	-	-	-	-	-
			Partition function, Def, molar & molecular P.F's	-	-	-	-	-	-	-	-	-

G. R. Satyanarayana
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)				CURRICULAR ACTIVITY			
NAME OF THE LECTURER: Dr. G.R. Satyanarayana					CLASS: Msc Organic Chemistry Semester: II				Paper: II Physical 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
			Derivation of Rot, vibr, translational P.F's	-	-	-	-	-	-	-	-	-
			Relation b/w E, H, S and G with partition functions.	-	-	-	-	-	-	-	-	-
Aug	1st		UNIT - III Electrochemistry Introduction & basics	-	-	-	-	-	-	-	-	-
			concentration cell with and without transference.	-	-	-	-	-	-	-	-	-
			Effect of complexation on Redox potential and applications (Eg's)	-	-	-	-	-	-	-	-	-
		4hrs	Determination of solubility product, eq. const and E°	-	-	-	-	-	-	-	-	-

G. R. Satyanarayana
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER <i>Dr. G.R. Satyanarayana</i>					CLASS : <i>B.Sc Organic Chemistry</i> Semester : <i>II</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	
			Activity coeff-deter- mination from EMF data	—	—	—	—	—	—	—	—	—	—
<i>Aug</i>	<i>2nd</i>		concept of activity, γ , γ_{\pm} and Bjerrum theory of ions	—	—	—	—	—	—	—	—	—	—
			Debye-Huckel theory limiting law, limitat ions.	—	—	—	—	—	—	—	—	—	—
			Effect of dilution on different types of conductances (K_A , μ)	—	—	—	—	—	—	—	—	—	—
		<i>4hrs</i>	Debye-Huckel onseger eq, verification fuel cells	—	—	—	—	—	—	—	—	—	—
<i>Aug</i>	<i>3rd</i>	<i>3hrs</i>	<u>UNIT-IV</u> Electrode-Electrolyte interface, double layer	—	—	—	—	—	—	—	—	—	—

G. R. Satyanarayana
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CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <i>Dr. G. R. Satyanarayana</i>					CLASS: <i>2 Msc Organic Chemistry</i> Semester: <i>II</i>				Paper: <i>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	
			Helmholtz, Perrin, Gouy-chapman diffuse charge models	—	—	—	—	—	—	—	—	—	—
<i>Aug</i>	<i>4th</i>	<i>2 hrs.</i>	stern model and charge transfer reactions.	—	—	—	—	—	—	—	—	—	—
			current density and over potential voltametry	—	—	—	—	—	—	—	—	—	—
<i>Sep</i>	<i>1st</i>	<i>3 hrs</i>	Derivation of Butler-Volmer equation, Tafel equations.	—	—	—	—	—	—	—	—	—	—
			concentration polarisation and experimental techn	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—

G. R. Satyanarayana
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B. V. Praveena
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER <i>Ch. Bhuvaneshwari</i>					CLASS : <i>Msc [Organic Chemistry]</i> Semester : <i>IV</i>				Paper : <i>I-ORNI & Organic photochemistry</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>Mar</i>	<i>4th</i>	<i>4hr</i>	<i>UNIT-I (A) Free radical reactions neighboring group</i>	-	-	-	-	-	-	-	-	-	-
<i>Apr</i>	<i>1st</i>	<i>3hr</i>	<i>assistance in free radical reactions reactivity for a aliphatic substrates:</i>	-	-	-	-	-	-	-	-	-	-
	<i>2nd</i>	<i>4hr</i>	<i>Reactivity in aromatic substance, reactivity at bridge head.</i>	-	-	-	-	-	-	-	-	-	-
			<i>oxidation of aldehydes to carboxylic acids</i>	-	-	-	-	-	-	-	-	-	-
	<i>3rd</i>	<i>4hr</i>	<i>coupling of alkynes (elinton reaction & glaser reaction)</i>	-	-	-	-	-	-	-	-	-	-
			<i>Mechanism of sandmeyer reaction, Hunsdiecker reaction, Reed reaction</i>	-	-	-	-	-	-	-	-	-	-

Ch. Bhuv
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)				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
	10	3hr	(B) Rearrangements : wagner-meerwein rearrangement	-	-	-	-	-	-	-	-	-
			Demjanov rearrangement Wittig rearrangement and	-	-	-	-	-	-	-	-	-
May	1	3hr	Stevens rearrangement	-	-	-	-	-	-	-	-	-
			UNIT-11 Methodologies in a symmetric synthesis	-	-	-	-	-	-	-	-	-
	1	4hr	Strategies in asymmetric synthesis (1) chiral substrate controlled	-	-	-	-	-	-	-	-	-
			(2) chiral reagent controlled	-	-	-	-	-	-	-	-	-
			(3) chiral catalyst controlled	-	-	-	-	-	-	-	-	-

Ch. Bhuvaneshwar
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: Ch. Bhuvanewar					CLASS: M.Sc (organic chem) Semester: IV				Paper: I OR M - II & organic Photochemistry				
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	
	III	3hr	① chiral substrate controlled asymmetric synthesis &	-	-	-	-	-	-	-	-	-	-
	IV	4hr	nucleophilic additions to chiral carbonyl compounds & asymmetric induction	-	-	-	-	-	-	-	-	-	-
			Cram's rule & Felkin anh model	-	-	-	-	-	-	-	-	-	-
			② chiral reagent controlled asymmetric synthesis :- Asymmetric reductions	-	-	-	-	-	-	-	-	-	-
June	V	4hr	using BINOL-H Asymmetric hydroxylation using IPC 2 BH & IPC BH2	-	-	-	-	-	-	-	-	-	-
			③ chiral catalyst controlled asymmetric synthesis :-	-	-	-	-	-	-	-	-	-	-

Ch. Bhuvanewar
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CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <u>Ch. Bhuvaneshwari</u>					CLASS: <u>MSc [Organic chem]</u> Semester: <u>IV</u>				Paper: <u>I, II, III & Organic Photochemistry</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
	<u>II</u>	<u>4hr</u>	<u>Sharpless and sacchsen asymmetric hydroboration</u>	-	-	-	-	-	-	-	-	-
			<u>epoxidations, sharpless asymmetric dihydroxylation Asymmetry</u>	-	-	-	-	-	-	-	-	-
	<u>III</u>	<u>3hr</u>	<u>hydro geneations using Chiral wilkinso biphosphine &</u>	-	-	-	-	-	-	-	-	-
			<u>Nayori catalyS enzyme mediated enantio selective synthesis</u>	-	-	-	-	-	-	-	-	-
<u>July</u>	<u>I</u>	<u>4hr</u>	<u>UNIT-III Photo chemistry - I</u>	-	-	-	-	-	-	-	-	-
			<u>Photo chemical energy frank condon principle.</u>	-	-	-	-	-	-	-	-	-

Ch. Bhuvaneshwari
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CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER					CLASS :				Semester :				Paper :			
Ch. Bhuvaneshwari					Msc [organic chem]				VI				T.ORM II & organic photochemistry			
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				
	II	4hr	Types of electronic excitation and molecular orbital view of	-	-	-	-	-	-	-	-	-	-	-		
			excitation Jablonski diagram, quantum efficiency and	-	-	-	-	-	-	-	-	-	-	-		
	III	4h	quantum yield photochemistry of carbonyl compounds &	-	-	-	-	-	-	-	-	-	-	-		
			Norrish type II reaction paterno Buchi reaction photo	-	-	-	-	-	-	-	-	-	-	-		
	IV	3hr	reduction and photo endirisation, oxidation of alkenes	-	-	-	-	-	-	-	-	-	-	-		
			with single oxygen	-	-	-	-	-	-	-	-	-	-	-		

Ch. Bhuv
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B.V. Prerna
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CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS :	Semester :	Paper : I ORM II & Organic Photochemistry 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	
Aug	I	4hr	UNIT - IV Photo chemistry - II	-	-	-	-	-	-	-	-	-	-
			Di-pi methane rearrangement, oxadi-pi methane rearrangement	-	-	-	-	-	-	-	-	-	-
	II	4hr	Photo Chemistry of unsaturated systems.	-	-	-	-	-	-	-	-	-	-
			cis-trans Isomerisation of alkenes,	-	-	-	-	-	-	-	-	-	-
			Photo chemistry of butadiene dimerisation of alkenes	-	-	-	-	-	-	-	-	-	-
			Intra molecular dimerisation, Barton Reaction	-	-	-	-	-	-	-	-	-	-

Ch. Bhuvaneshwari
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CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>Dr. B. Valli Purnima</u>					CLASS : <u>II (MSc Org)</u>				Semester : <u>IV</u>		Paper : <u>II (Organic Spectroscopy)</u>		
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
Mar	<u>IV</u>	4hr	<u>unit-I</u> A, optical Rotatory Dispersion: optical Rot	-	-	-	-	-	-	-	-	-	-
Apr	<u>I</u>	3hr	-ation, Empirical and Semi Empirical rules CD spectroscopy	-	-	-	-	-	-	-	-	-	-
			Asial halo ketone rule, octant rule helicity rule	-	-	-	-	-	-	-	-	-	-
	<u>II</u>	3hr	Application of the rule of study of absolute configuration	-	-	-	-	-	-	-	-	-	-
	<u>III</u>	3hr	and Confirmations of organic molecules	-	-	-	-	-	-	-	-	-	-
			<u>unit-II</u> A, Improving the PMR spectrum	-	-	-	-	-	-	-	-	-	-

Dr. B. Valli Purnima
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CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY							
NAME OF THE LECTURER: <u>Dr. B. Valli Punima</u>					CLASS: <u>D.M.Sc (Org)</u> Semester: <u>IV</u>				Paper: <u>D-Organic Spectroscopy</u>							
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date								
	<u>IV</u>	<u>4hr</u>	<u>chemical and magnetic equivalence</u> <u>chemical exchange</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
<u>May</u>	<u>I</u>	<u>4hr</u>	<u>Spectra and analysis of AB, AMX and ABX</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
	<u>II</u>	<u>3hr</u>	<u>System B, simplification of Complex spectra</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
			<u>nuclear magnetic double resonance, deuterium exchange</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
	<u>III</u>	<u>4hr</u>	<u>spectra at higher-fields hindered Rotations and Rate</u>	-	-	-	-	-	-	-	-	-	-	-	-	-
	<u>IV</u>	<u>3hr</u>	<u>Process Resonance of other nuclei- ^{19}F and ^{31}P</u>	-	-	-	-	-	-	-	-	-	-	-	-	-

B. V. Punima
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: DR. B. Valli Purnima					CLASS: <u>II MSc org. Chemistry</u> Semester: <u>IV</u>				Paper: <u>II organic spectroscopy.</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
June	I	4hr	C, 2D NMR spectroscopy: definition and importance of	-	-	-	-	-	-	-	-	-	-
	II	3hr	COZY, DEPT, HOMCOR HETCOR, INDEQATE INDURINEPT, NUESY	-	-	-	-	-	-	-	-	-	-
			<u>unit-III</u> Solution of structural Problem by	-	-	-	-	-	-	-	-	-	-
	III	4hr	joint application of UV, IR, NMR (1H & 13C) and mass spectroscopy	-	-	-	-	-	-	-	-	-	-
	IV	4hr	<u>unit-IV</u> A, Separation Techniques:-	-	-	-	-	-	-	-	-	-	-
July	I	3hr	Solvent Extraction chromatography- Paper-thin layer	-	-	-	-	-	-	-	-	-	-

B. V. Purnima
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <i>Dr. B. Valli Purnima</i>					CLASS: <i>II MSc Org Chemistry</i> Semester: <i>IV</i>				Paper: <i>P-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	
	<i>II</i>	<i>4hr</i>	<i>Partition-column chromatography</i>	—	—	—	—	—	—	—	—	—	—
	<i>III</i>	<i>3hr</i>	<i>B, Instrumentation Gas chromatogr-</i>	—	—	—	—	—	—	—	—	—	—
<i>Aug</i>	<i>IV</i>	<i>2hr</i>	<i>-aphy, high perfor-</i> <i>-mance, liquid</i>	—	—	—	—	—	—	—	—	—	—
			<i>chromatography,</i> <i>x-ray diffraction</i>	—	—	—	—	—	—	—	—	—	—

B. V. Purnima
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B. V. Purnima
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CURRICULUM LECTURER WISE 2020-2021

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <u>Dr. B.S.N. Morthi</u>					CLASS: <u>II msc organic chemistry</u> Semester: <u>IV</u>				Paper: <u>III modern organic synthesis-II</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
MAR	<u>IV</u>	<u>4hr</u>	<u>Unit-I: - organo silanes</u>	-	-	-	-	-	-	-	-	-
			<u>synthetic applications of trimethyl silyl chloride</u>	-	-	-	-	-	-	-	-	-
APR	<u>I</u>	<u>3hr</u>	<u>dimethyl-t-butyl silyl chloride, trimethyl silyl cyanide, synthetic</u>	-	-	-	-	-	-	-	-	-
			<u>applications of silyl enol ethers, preparation and synthetic</u>	-	-	-	-	-	-	-	-	-
			<u>applications of alkynyl silanes, aryl silanes and</u>	-	-	-	-	-	-	-	-	-
			<u>vinyl silanes, Nazarov cyclisation,</u>	-	-	-	-	-	-	-	-	-
			<u>Book rearrangement and Rubottom oxidation</u>	-	-	-	-	-	-	-	-	-

B. S. N. Morthi
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CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: <u>Dr. B.S.N. Murthi</u>					CLASS: <u>I (Msc) Org. Chem</u>				Semester: <u>IV</u>		Paper: <u>II - Modern org. Synthesis</u>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY					
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date		
May	I	4hr	Unit-II: - oxidation synthetic applications of the following reagent in the oxidation of functional groups like alkenes, alcohols,	-	-	-	-	-	-	-	-	-	-	
	II	3hr	① Pb(OAc) ₄ ② SeO ₂ ③ Jones reagent	-	-	-	-	-	-	-	-	-	-	
	III	3hr	④ Babels oxidation ⑤ MnO ₂	-	-	-	-	-	-	-	-	-	-	
	IV	4hr	⑥ Swern oxidation ⑦ oxidation by	-	-	-	-	-	-	-	-	-	-	
	June	I	4hr	using DDQ.	-	-	-	-	-	-	-	-	-	-
				⑧ thalium nitrate	-	-	-	-	-	-	-	-	-	-

B.S.N. Murthi
Signature of the Lecturer

B.V. Prudhvi
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CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)										
NAME OF THE LECTURER					CLASS : <i>B.M.Sc organic chemistry</i> Semester : <i>IV</i>				Paper : <i>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			
	<i>I</i>	<i>3hr</i>	<i>Unit -10: - Reduction catalytic reductions, Homogenous (Wilkinson's catalytic reduction) and heterogeneous catalytic reductions and their synthetic applications.</i>	—	—	—	—	—	—	—	—	—	—	—	
	<i>II</i>	<i>3hr</i>		—	—	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—	—	—
<i>July</i>	<i>I</i>	<i>4hr</i>	<i>Reductions by using electrophilic metal hydrides BH₃, DIBAL</i>	—	—	—	—	—	—	—	—	—	—	—	
	<i>II</i>	<i>3hr</i>	<i>Reductions by using Diimide and Wolf-Kishner Reduction.</i>	—	—	—	—	—	—	—	—	—	—	—	
			<i>Reductions by using <i>tert</i>-n-butyl tin hydride</i>	—	—	—	—	—	—	—	—	—	—	—	

[Signature]
Signature of the Lecturer

B.V. Prasad
Signature of the HOD

[Signature]
Signature of the Principal

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>Dr. B.S.N. Murthy</u>					CLASS: <u>M.Sc. Org. Chemistry</u> Semester: <u>IV</u>				Paper: <u>III - Modern Organic Synthesis</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	
	<u>III</u>	<u>4hr</u>	<u>Unit - IV :- Retro Synthetic Analysis</u>	-	-	-	-	-	-	-	-	-	-
	<u>IV</u>	<u>4hr</u>	<u>1. Basic definitions of a) Retro synthetic analysis b) Disconnection</u>	-	-	-	-	-	-	-	-	-	-
<u>Aug</u>	<u>I</u>	<u>3hr</u>	<u>c) Target molecule d) Synthon.</u>	-	-	-	-	-	-	-	-	-	-
	<u>II</u>	<u>4hr</u>	<u>2. Guidelines for the order of events ; one group C-X disconnecti</u>	-	-	-	-	-	-	-	-	-	-
	<u>III</u>	<u>2hr</u>	<u>-ons, one group C-C disconnections (Alcohols and Carbon-</u>	-	-	-	-	-	-	-	-	-	-
			<u>-yl compounds. Linear and Convergent Synthesis.</u>	-	-	-	-	-	-	-	-	-	-

B.S.N. Murthy
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY				
NAME OF THE LECTURER: <u>Ch. Bhuvaneshwari</u>					CLASS: <u>II MSc (Organic Chemistry)</u> Semester: <u>IV</u>				Paper: <u>IV (Bio-organic Chemistry)</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
MAR	IV	4hr	Unit-I: Biopolymers and Enzymes	-	-	-	-	-	-	-	-	-	-
APR	I	3hr	Peptides: α -Amino acids, their general properties and synthesis	-	-	-	-	-	-	-	-	-	-
	II	3hr	Enzymes - oxidoreductases, hydrolases.	-	-	-	-	-	-	-	-	-	-
	III	4hr	Baker's yeast enzyme models	-	-	-	-	-	-	-	-	-	-
	IV	4hr	Unit II: Antimalarials and Antibiotics	-	-	-	-	-	-	-	-	-	-
			i) chemotherapy, synthesis and	-	-	-	-	-	-	-	-	-	-

Ch. Bhuvaneshwari
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

PLAN (Year)

CLASS : II MSc/org. chem

Semester : IV

Paper : IV (Bio-organic chemistry)

ANNUAL CURRICULAR

NAME OF THE LECTURER Ch. Bhuvaneshwari

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	I	3h	activity of antimalarial drug -	-	-	-	-	-	-	-	-	-
			quinoline group-quinone, acridine	-	-	-	-	-	-	-	-	-
	II	3h	group and guanidine group paludine.	-	-	-	-	-	-	-	-	-
	III	4hr	General characteristics, structure	-	-	-	-	-	-	-	-	-
	IV	3h	activity, relationships, synthesis and	-	-	-	-	-	-	-	-	-
June	I	4hr	activity of antibiotics.	-	-	-	-	-	-	-	-	-

Ch. Bhuvaneshwari
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER: <u>Ch. Bhuvaneshwari</u>					CLASS: <u>II MSc (org. chem)</u> Semester: <u>IV</u> Paper: <u>IV (Bio-organic chemistry)</u>				CO-CURRICULAR ACTIVITY			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	<u>II</u>	<u>3hr</u>	<u>Unit - III</u> <u>vitamins</u>	—	—	—	—	—	—	—	—	—
	<u>III</u>	<u>4hr</u>	<u>Definition, occurrence, structural formulae,</u>	—	—	—	—	—	—	—	—	—
	<u>IV</u>	<u>3hr</u>	<u>Physiological functions and synthesis</u>	—	—	—	—	—	—	—	—	—
<u>July</u>	<u>I</u>	<u>4hr</u>	<u>of vitamins structure determination & synthesis</u>	—	—	—	—	—	—	—	—	—
			<u>of Retinol (A) Thiamine (B) Riboflavin (B2)</u>	—	—	—	—	—	—	—	—	—
	<u>I</u>	<u>4hr</u>	<u>Pyridoxime (B6) and Biotins (H)</u>	—	—	—	—	—	—	—	—	—

Ch. Bhuvaneshwari
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <i>e.h. Bhuvaneshwari</i>					CLASS : <i>ii Msc(org. chem)</i> Semester : <i>IV</i>				Paper : <i>IV (Bio-organic 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>IV</i>	<i>3hr</i>	<u>Unit IV</u> <i>Nucleic acids</i>	-	-	-	-	-	-	-	-	-
			<i>Basic concepts of the structure of RNA and DNA</i>	-	-	-	-	-	-	-	-	-
	<i>IV</i>	<i>3hr</i>	<i>nucleosides and Heterocyclic bases,</i>	-	-	-	-	-	-	-	-	-
<i>Aug</i>	<i>I</i>	<i>4hr</i>	<i>Genetic code, finger print test</i>	-	-	-	-	-	-	-	-	-
			<i>diagnosis of diseases insect control</i>	-	-	-	-	-	-	-	-	-
			<i>Improved biological detergents, genetherapy</i>	-	-	-	-	-	-	-	-	-

e.h. Bhuvaneshwari
Signature of the Lecturer

B.V. Prasad
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