

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018 - 2019

Page No. 2/1000 ①

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>Dr. G. Ramu</u>					CLASS: <u>I M.Sc. Organic Chemistry</u> Semester: <u>II</u>				Paper: <u>I General Chemistry</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			<u>UNIT-I</u>	—	—	—	—	—	—	—	—	—	—
			<u>Hydrogen atom - solutions of R(r) eqⁿ</u>	—	—	—	—	—	—	—	—	—	—
<u>Nov</u>	<u>1w</u>	<u>4hrs</u>	<u>0(0), 0(1) eqⁿs. Probability density and shapes of orbitals</u>	—	—	—	—	—	—	—	—	—	—
			<u>Perturbation theory derivation and</u>	—	—	—	—	—	—	—	—	—	—
			<u>its application to He atom. Variation theorem - and</u>	—	—	—	—	—	—	—	—	—	—
<u>Nov</u>	<u>2w</u>	<u>4hrs</u>	<u>its application to Harmonic Oscillator</u>	—	—	—	—	—	—	—	—	—	—
			<u>Many e⁻ atom - Hartee-fock self consistent field method</u>	—	—	—	—	—	—	—	—	—	—

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Signature of the Lecturer

B.V. Prasad
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: <u>Dr. G. Ramce</u>					CLASS: <u>B.M.Sc organic chem</u> Semester: <u>II</u>				Paper: <u>I. General Chemistry</u>					
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY					
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date		
			Mean, Median. Hypothesis: t and F test.											
Jan	3 rd	4hrs.	criteria of Rejection, significant figures and computation rules.											
			<u>UNIT-IV</u> Introduction of computer parts											
			computer memories, languages, Algorithms											
Feb	1 st	4hrs.	flowcharts - const and variables, statements: - IF											
Feb	2 nd	4hrs.	types, GOTO, DIMENSION, DO statements.											

Dr. G. Ramce
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CURRICULUM LECTURER WISE 2018-2019

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>Dr. G. Ramu</u>					CLASS: <u>P.M.Sc organic chem</u> Semester: <u>II</u>				Paper: <u>I</u> <u>General chemistry</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
Feb	3rd	4hrs	Development of FORTRAN statements for formulae diff.	-	-	-	-	-	-	-	-	-	-
Feb	4th	4hrs	chemical eqns :- First order rate eqn, standard deviation, van der Waals eqn. ... flow charts and algorithms	-	-	-	-	-	-	-	-	-	-
Mar	1st	4hrs	Programs.	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
Mar	2nd	4hrs	Revision	-	-	-	-	-	-	-	-	-	-

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018-2019

PLAN (Year)

ANNUAL CURRICULAR

CLASS : I MSc

Semester : II

Paper : Inorganic Chemistry - II

CO-CURRICULAR ACTIVITY

NAME OF THE LECTURER

B. Visutha

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Nov	1w	4hrs.	Introduction	—	—	—	—	—	—	—	—	—
			Metal-cluster-com pounds- definition- evidences for existence of M-M bonds - conditions favourable for formation of M-M bonds	—	—	—	—	—	—	—	—	—
			Preparation, structure and bonding of $Re_2Cl_8^{2-}$, $Mo_2Cl_8^{2-}$, $Re_2(RCOO)_4X_2$	—	—	—	—	—	—	—	—	—
Dec	1w	4hrs	$Mo_2(RCOO)_4(H_2O)_2$, $Cr_2(RCOO)_4(H_2O)_2$, $Cu_2(RCOO)_4(H_2O)_2$	—	—	—	—	—	—	—	—	—
			$Cr_2Cl_9^{3-}$; $Mo_2Cl_9^{3-}$, $W_2Cl_9^{3-}$, Re_3Cl_9 , $Re_3Cl_{12}^{3-}$, $Mo_6Cl_8^{4+}$, $Nb_6X_{12}^{2+}$ and $Ta_6X_{12}^{2+}$, Polyatomic clusters - Zintl ions, clerval phases	—	—	—	—	—	—	—	—	—

B. Visutha
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 20 - 202
PLAN (Year)

ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER <i>B. Vinita</i>					CLASS : <i>IMSC</i>				Semester : <i>II</i>				Paper : <i>Inorganic Chemistry - 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>Jan</i>	<i>3rd</i>	<i>4hrs</i>	<i>Metal ligand equilibria insolation-stepwise and overall formation constants and their interaction-trends in stepwise constants-factors affecting the stability of metal</i>	—	—	—	—	—	—	—	—	—	—			
			<i>Complexes-Pearson's theory of hard and soft acids and bases chelate effect and its thermodynamic origin determination of stability constants of complexes-</i>	—	—	—	—	—	—	—	—	—	—			
			<i>spectrophotometric method, PH-metric method. Reactivity of inert and labile complex</i>	—	—	—	—	—	—	—	—	—	—			
<i>Feb</i>	<i>1w</i>	<i>4hrs</i>	<i>explanation of lability on basis of VBT&CFT</i>	—	—	—	—	—	—	—	—	—	—			
<i>Feb</i>	<i>2w</i>	<i>4hrs</i>	<i>Bio-inorganic chemistry</i>	—	—	—	—	—	—	—	—	—	—			
<i>Feb</i>	<i>3w</i>	<i>4hrs</i>		—	—	—	—	—	—	—	—	—	—			

B. Vinita
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018 - 2019

PLAN (Year)

ANNUAL CURRICULAR

CLASS : 2 MSc organic Chem Semester : I

Paper : III - organic chemistry

CO-CURRICULAR ACTIVITY

NAME OF THE LECTURER Dr. B. Valli Purnima					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
Feb	4 th	4hrs	UNIT-IV spectroscopy and protecting groups	-	-	-	-	-	-	-	-	-
			(i) U.V visible absorption laws, electronic excitations and absorption shifts	-	-	-	-	-	-	-	-	-
Mar	1 st	4hrs	(ii) IR: fundamental modes of vibrations.	-	-	-	-	-	-	-	-	-
Mar	2 nd	4hrs	(iii) NMR; chemical shift and its importance,	-	-	-	-	-	-	-	-	-
			coupling constant and its importance.	-	-	-	-	-	-	-	-	-
Mar	3 rd	4hrs.	(iv) Mass: - some useful terms used in mass spectroscopy protecting groups	-	-	-	-	-	-	-	-	-

B. V. Purnima
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CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>Dr. B. Valli Purnima</u>					CLASS: <u>I M. or Organic Chemistry</u> Semester: <u>II</u>				Paper: <u>III (ORGANIC 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	
Dec	3	4 hrs	<u>UNIT - II</u> <u>Addition Reactions</u>	—	—	—	—	—	—	—	—	—	—
Dec	4 th	4 hrs.	<u>(A) Addition to carbon-carbon multiple bonds; stereo selectivity & free radical reaction</u>	—	—	—	—	—	—	—	—	—	—
			<u>hydrogenation of double and triple bonds</u>	—	—	—	—	—	—	—	—	—	—
Jan	1 st	4	<u>(B) Addition to carbon-nitrogen multiple bonds,</u>	—	—	—	—	—	—	—	—	—	—
			<u>steric course of addition reactions to C=O & C=N, Aldol, Cannizzaro, Perkin,</u>	—	—	—	—	—	—	—	—	—	—
Jan	2 nd	4	<u>Knoevenagel, Claisenmichael, Claisen rearrangement & Michael Rear</u>	—	—	—	—	—	—	—	—	—	—

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

CURRICULUM LECTURER WISE 2018 - 2019

PLAN (Year)

ANNUAL CURRICULAR

CLASS : 2nd MSc. organic chem Semester : II

Paper : IV physical chemistry

NAME OF THE LECTURER

Dr. G.R. Satyanarayana

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
Dec	3 ^w	4 hrs	Experimental technique - line shapes	—	—	—	—	—	—	—	—	—	—
			line width and g-factor	—	—	—	—	—	—	—	—	—	—
			Hyper-fine interactions with different examples.	—	—	—	—	—	—	—	—	—	—
Dec	4 th	4 hrs	Applications of ESR studies.	—	—	—	—	—	—	—	—	—	—
			<u>UNIT-II</u> Introduction to thermodynamics.	—	—	—	—	—	—	—	—	—	—
Jan	1 st	4 hrs.	Entropy & its Significance Entropy changes in different process	—	—	—	—	—	—	—	—	—	—

G. R. Satya
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B.V. Prasad
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018-2019

ANNUAL CURRICULAR

PLAN (Year)

CLASS : B.Mec. organic chemistry Semester : II

Paper : Physical chemistry
 CO-CURRICULAR ACTIVITY

NAME OF THE LECTURER Dr. G.R. Satyanarayana

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
Jan	2 nd	4 hrs.	Next Heat theorem and III law of thermodynamics.	—	—	—	—	—	—	—	—	—	—
			Determination of absolute entropies of solids, liquids, gases(s) determination	—	—	—	—	—	—	—	—	—	—
Jan	3 rd	4 hrs.	Exceptions to III law of T.D	—	—	—	—	—	—	—	—	—	—
			objectives of Statistical thermodynamics. Types of ensembles.	—	—	—	—	—	—	—	—	—	—
Feb	1 st	4 hrs	Concept of distribution and different laws of distribution.	—	—	—	—	—	—	—	—	—	—
Feb	2 nd	4 hrs.	Partition functions, Def, molar & molecular P.F.S.	—	—	—	—	—	—	—	—	—	—

G.R. Safran
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <u>Dr. G.R. Satyanarayana</u>					CLASS: <u>B.M.Sc. org chemistry</u> Semester: <u>II</u> Paper: <u>IV</u>				<u>Physical chemistry.</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	2nd	4hrs.	Activity Coeff. determination from EMF data.	—	—	—	—	—	—	—	—	—
			Concept of activity, γ_{\pm} and Bjerrum theory of ions	—	—	—	—	—	—	—	—	—
			Debye-Huckel theory limiting law, limitations	—	—	—	—	—	—	—	—	—
			Effect of dilution on different types of conductances (k, λ, μ).	—	—	—	—	—	—	—	—	—
			Debye-Huckel on sagal eqn, verification fuel cells.	—	—	—	—	—	—	—	—	—
			<u>UNIT - IV</u> Electrode-Electrolyte interface - double layer	—	—	—	—	—	—	—	—	—

G.R. Safr
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B.V. Prasad
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018 - 2019

2018-2019

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: Ch. Bhuvaneshwari					CLASS: M.Sc (organic chem) Semester: IV				Paper: I (ORGA-II & organic photochemistry)			
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 a) free radical reactions	—	—	—	—	—	—	—	—	—
			neighboring group assistance in free radical reactions	—	—	—	—	—	—	—	—	—
Nov	2w	4	Reactivity for aliphatic substrates	—	—	—	—	—	—	—	—	—
			Reactivity in aromatic substrates, reactivity at bridge head.	—	—	—	—	—	—	—	—	—
			oxidation of aldehydes to carboxylic acids	—	—	—	—	—	—	—	—	—
Nov	2w	4	coupling of alkynes (eglinton reaction & Glaser reaction)	—	—	—	—	—	—	—	—	—
			mechanism of sandmeyer reaction, Hunsdiecker reaction, Reed reaction.	—	—	—	—	—	—	—	—	—

Ch. Bhuvaneshwari
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: Ch. Bhuvaneshwari					CLASS: M.A.Sc Organic Chem Semester: II				Paper: I-OR19-II (Organic Chemistry)				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date	
Dec	1st W	4 hrs	(B) Rearrangements Wagner-Meerwein Rearrangements	—	—	—	—	—	—	—	—	—	—
Dec	2nd W	4 hrs	Demjanov Rearrangement, Wittig Rearrangement & Stevens Rearrangement.	—	—	—	—	—	—	—	—	—	—
Dec	3rd W	4 hrs	UNIT-III methodologies in asymmetric synthesis.	—	—	—	—	—	—	—	—	—	—
			strategies in asymmetric synthesis - S _N 2, chiral substrate controlled,	—	—	—	—	—	—	—	—	—	—
			chiral reagent controlled, chiral catalyst controlled.	—	—	—	—	—	—	—	—	—	—

Ch. Bhuvaneshwari
Signature of the Lecturer

B. V. Prasad
Signature of the HOD

K. Sridhar
Signature of the Principal

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER Ch. Bhuvaneshwari					CLASS : <u>M.Sc (Organic Chem)</u> Semester : <u>VI</u>				Paper : <u>I-ORG-1 & (Organic Chemistry)</u>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Dec	4 th W	4hrs	chiral substrate controlled asymmetric synthesis of nucleophilic addition to chiral carbonyl compounds. 1,2-asymmetric induction	—	—	—	—	—	—	—	—	—
Jan	1 st W	4hrs	Cram's rule & Felkin-Anh model ② chiral reagent controlled asymmetric synthesis :- Asymmetric reductions using BINOL-H.	—	—	—	—	—	—	—	—	—
Jan	2 nd W	4hrs	Asymmetric hydroboration using IPC ₂ BH and IPC BH ₂ ③ chiral catalyst controlled asymmetric synthesis :-	—	—	—	—	—	—	—	—	—

Ch. Bhuvaneshwari
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CURRICULUM LECTURER WISE 2018 - 2019

PLAN (Year)

'ANNUAL CURRICULAR

CLASS : M.P.Sc (Organic Chem) Semester : VI

Paper : 1- ORG- II & Concepts photochemistry
CO-CURRICULAR ACTIVITY

NAME OF THE LECTURER		CURRICULAR ACTIVITY										
NAME OF THE LECTURER		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
			Sharpless and Jacobson asymmetric hydroboration	—	—	—	—	—	—	—	—	—
			epoxidations, Sharpless asymmetric dihydroxylation	—	—	—	—	—	—	—	—	—
Jan	3 rd W	4hrs	Asymmetric hydro-generation using chiral Wilkinson phosphine and Noyori catalysts.	—	—	—	—	—	—	—	—	—
Feb	1 st W	4hrs	Enzyme mediated enantioselective synthesis.	—	—	—	—	—	—	—	—	—
			UNIT-III photochemistry-I	—	—	—	—	—	—	—	—	—
			photochemical energy transfer Frank Condon principle	—	—	—	—	—	—	—	—	—

Ch. Bhuvaneshwari
 Signature of the Lecturer

B.V. Praveen
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 20219

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS : <u>II M Sc Organic Chem</u> Semester : <u>II</u>				Paper : <u>I - OR 19 - II & Organic photochemistry</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	
Feb	2 nd W	4hrs	Types of electronic excitation and molecular orbital	—	—	—	—	—	—	—	—	—	—
			view of excitation, Jablonski Diagram, quantum efficiency and quantum yield.	—	—	—	—	—	—	—	—	—	—
Feb	3 rd W	4hrs	photo chemistry of carbonyl compounds	—	—	—	—	—	—	—	—	—	—
			Norrish type-II reaction, Paterno-Buchi reaction,	—	—	—	—	—	—	—	—	—	—
Feb	4 th W	4hrs	photo reduction & photo enolisation,	—	—	—	—	—	—	—	—	—	—
			protection of alcohols with singlet oxygen.	—	—	—	—	—	—	—	—	—	—

Ch. Bhuvaneshwari
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CURRICULUM LECTURER WISE 2018 - 2019

PLAN (Year)

'ANNUAL CURRICULAR

NAME OF THE LECTURER Ch. Bhuvaneshwari

CLASS : M.Sc/Organic Chem **Semester :** IV

Paper : I-ORIG-IV (Organic Photochemistry)

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	
March	1 st W	4 hrs	<u>UNIT - IV</u> <u>Photochemistry - II</u>	—	—	—	—	—	—	—	—	—	—
			<u>DP-PI methane rearrangement, oxo DP-PI methane rearrangement,</u>	—	—	—	—	—	—	—	—	—	—
March	2 nd W	4 hrs	<u>photochemistry of unsaturated systems, cis-trans isomerisation of alkenes,</u>	—	—	—	—	—	—	—	—	—	—
			<u>photochemistry of Butadiene,</u>	—	—	—	—	—	—	—	—	—	—
March	3 rd W	4 hrs	<u>Dimerisation of alkenes, intramolecular dimerisation, Baylis-Hillman reaction.</u>	—	—	—	—	—	—	—	—	—	—

Ch. Bhuvaneshwari
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CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY							
NAME OF THE LECTURER: Dr. B. Valli Purnima					CLASS: II (MSc Comp)				Semester: IV				Paper: II (Organic Spectroscopy)			
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				
Nov	2 nd W	4hrs	Unit-I A, optical Rotatory Dispersion: optical rotation, Optical and Semi empirical rules CD spectroscopy.	—	—	—	—	—	—	—	—	—				
Nov	3 rd	4hrs	Axial halo ketone rule, Octant rule Helicity rule	—	—	—	—	—	—	—	—	—				
			Application of the rules to study of absolute Configuration	—	—	—	—	—	—	—	—	—				
Dec	1 st W	4hrs	and Confirmations of organic molecules	—	—	—	—	—	—	—	—	—				
Dec	2 nd W	4hrs	Unit-II A, Improving the PMR spectrum	—	—	—	—	—	—	—	—	—				

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: Dr. B. Valli Purnima					CLASS: Msc Organic Chemistry				Semester: IV Paper: II Organic Spectroscopy			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date
Dec	2 nd 3 rd W	4hrs	chemical and magnetic equivalence chemical exchange	—	—	—	—	—	—	—	—	—
Dec	4 th	4hrs	spectra and analysis of AB, AMx and AX systems	—	—	—	—	—	—	—	—	—
			B, simplification of complex spectra	—	—	—	—	—	—	—	—	—
Jan	1 st W	4hrs	Nuclear magnetic double resonance, Deuterium exchange	—	—	—	—	—	—	—	—	—
			spectra at higher-fields hindered Rotations and Rate process.	—	—	—	—	—	—	—	—	—
Jan	2 nd	4hrs	Resonance of other nuclei. ¹⁹ F and ³¹ P.	—	—	—	—	—	—	—	—	—

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ANNUAL CURRICULAR					PLAN (Year)				CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <i>Dr. B. Valli Purnima</i>					CLASS: <i>Princ Organic Chemistry</i>		Semester: <i>R</i>		Paper: <i>I [Organic Spectroscopy]</i>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	if not Alternate Date
Jan	3 rd	4	C, 2D NMR Spectroscopy: Definition and importance of	—	—	—	—	—	—	—	—	—
			cosy, DEPT, HOMOCP, METCOR, INDEQUATE, IMDORTNEPT, NOESY	—	—	—	—	—	—	—	—	—
Feb	1 st W	4	Unit-III Solution of structural problems by	—	—	—	—	—	—	—	—	—
			Joint application of UV, IR, NMR (1H & 13C) and mass spectroscopy	—	—	—	—	—	—	—	—	—
Feb	2 nd W	4	Unit-IV A, Separation Techniques:-	—	—	—	—	—	—	—	—	—
Feb	3 rd W	4	Solvent extraction chromatography - paper - thin layer	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <u>Dr. B. Valli Pravinima</u>					CLASS: <u>Mr. Organic Chemistry</u> Semester: <u>IV</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
Feb	4 th W	4hrs	Position - column chromatography.	—	—	—	—	—	—	—	—	—
			B, Instrumentation - Gas chromatography.	—	—	—	—	—	—	—	—	—
Mar	1 st W	4hrs	High performance, liquid chromatography.	—	—	—	—	—	—	—	—	—
Mar	2 nd	4 hrs	Chromatography, X-Ray Diffraction.	—	—	—	—	—	—	—	—	—
Mar	3 rd	4hrs	Revision	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <u>Dr. B.S.N. Murthy</u>					CLASS : <u>II msc organic chemistry</u> Semester : <u>IV</u>				Paper : <u>II 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
Nov	1 st W	4hrs	Unit - II organo silanes Synthetic applications of trimethylsilyl chloride	—	—	—	—	—	—	—	—	—
			dimethyl-t-butylsilyl chloride, trimethylsilyl, cyanide, Synthetic	—	—	—	—	—	—	—	—	—
Nov	2 nd W	4hrs	applications of silyl enol ethers, prepar- ation and synthetic	—	—	—	—	—	—	—	—	—
			applications of alkynyl silanes, aryl silanes and	—	—	—	—	—	—	—	—	—
Dec	1 st W	4hrs	vinyl silanes, Nazarov cyclisation,	—	—	—	—	—	—	—	—	—
Dec	2 nd W	4hrs	Wittig rearrangement and Rubottom oxidation.	—	—	—	—	—	—	—	—	—

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ANNUAL CURRICULAR					PLAN (Year)				Paper: <u>III Modern Organic</u>			
NAME OF THE LECTURER: <u>Dr. B.S.N Murthy</u>					CLASS: <u>B.Sc Organic Chemistry</u>				Semester: <u>IV</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
Dec	3 rd W	4hrs	Unit-II: Oxidation. Synthetic applications of the following reagent in the oxidation of functional groups like alkenes, alcohols,	—	—	—	—	—	—	—	—	—
			① $Pb(OAc)_4$	—	—	—	—	—	—	—	—	—
			② SeO_2	—	—	—	—	—	—	—	—	—
			③ Jones reagent	—	—	—	—	—	—	—	—	—
			④ Baeyer oxidation.	—	—	—	—	—	—	—	—	—
			⑤ MnO_2	—	—	—	—	—	—	—	—	—
Jan	1	4hrs	⑥ Swern oxidation	—	—	—	—	—	—	—	—	—
			⑦ Oxidation by using DDA.	—	—	—	—	—	—	—	—	—
Jan	2	4hrs	⑧ Thallium nitrate.	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <u>Dr. B.S.N. Murthy</u>					CLASS: <u>IV Msc Organic Chemistry</u>				Semester: <u>IV</u> Paper: <u>II Modern Organic Chemistry</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
Jan	3	4hrs	Unit III: Reduction catalytic reductions (homogenous (Wilkinson's catalytic reduction) and heterogenous catalytic	—	—	—	—	—	—	—	—	—
			reductions and their synthetic applications.	—	—	—	—	—	—	—	—	—
Feb	1	4hrs	Reductions by using electrophilic metal hydrides BH ₃ , DIBAL	—	—	—	—	—	—	—	—	—
Feb	2	4hrs	Reductions by using Diimide and Wolf-Kishner Reduction.	—	—	—	—	—	—	—	—	—
Feb	3	4hrs	Reductions by using tri-n-butyl tin hydride.	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>Dr. B.S.N. Murthi</u>					CLASS: <u>II Msc Organic Chemistry</u>				Semester: <u>I</u>	Paper: <u>III Modern 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	
Feb	4	4 hrs	<u>Unit-IV:</u> <u>Retrosynthetic Analysis.</u>	—	—	—	—	—	—	—	—	—	—
			1. Basic definitions of a) Retrosynthetic analysis (b) Disconnection.	—	—	—	—	—	—	—	—	—	—
Mar	1	4 hrs	(c) Target molecule. (d) Synthon.	—	—	—	—	—	—	—	—	—	—
			2. Guidelines for the order of events; one group C-X disconnecti-	—	—	—	—	—	—	—	—	—	—
Mar	2	4 hrs	ons, one group C-C disconnections (Alcohols and carbon-	—	—	—	—	—	—	—	—	—	—
			yl compounds.	—	—	—	—	—	—	—	—	—	—
Mar	3	4 hrs	Linear and Convergent Synthesis.	—	—	—	—	—	—	—	—	—	—

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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	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Nov	1	4hrs	<u>Unit-I</u> Biopolymers and enzymes Peptides: α -Amino acids, their general properties and synthesis.	—	—	—	—	—	—	—	—	—
Nov	2	4hrs	Enzymes - oxidoreductases, hydrolases	—	—	—	—	—	—	—	—	—
Dec	1	4hrs	Baker's yeast Enzyme models	—	—	—	—	—	—	—	—	—
			<u>Unit II</u> Antimalarials and Antibiotics	—	—	—	—	—	—	—	—	—
Dec	2	4hrs	i) chemotherapy, Synthesis and	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER <i>Ch. Bhuvaneshwari</i>					CLASS : <i>II Msc (organic chemistry) Semester : 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>Dec</i>	<i>3</i>	<i>4hrs</i>	<i>activity of antimala-rial drug -</i>	—	—	—	—	—	—	—	—	—
			<i>quinoline group -</i>	—	—	—	—	—	—	—	—	—
			<i>quinine, acridine</i>	—	—	—	—	—	—	—	—	—
<i>Dec</i>	<i>4</i>	<i>4hrs</i>	<i>group and guanidine group paludine</i>	—	—	—	—	—	—	—	—	—
			<i>i) General characteri stics. structure</i>	—	—	—	—	—	—	—	—	—
<i>Jan</i>	<i>1</i>	<i>4hrs</i>	<i>activity relationships</i>	—	—	—	—	—	—	—	—	—
			<i>synthesis and</i>	—	—	—	—	—	—	—	—	—
<i>Jan</i>	<i>2</i>	<i>4hrs</i>	<i>Activity of antibiotics.</i>	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <u>Ch. Bhuvaneshwari</u>					CLASS: <u>II Msc (org chem)</u> Semester: <u>II</u>				Paper: <u>II (Bio-organic chemistry)</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
Jan	3	4hrs	<u>Unit - III</u> vitamins	—	—	—	—	—	—	—	—	—
			Definition, occurrence, Structural formulae,	—	—	—	—	—	—	—	—	—
Feb	1	4hrs	physiological functions and synthesis	—	—	—	—	—	—	—	—	—
			of vitamins structure determination & synthesis	—	—	—	—	—	—	—	—	—
Feb	2	4hrs	of Retinol (A), Thiamine (B ₁) Riboflavin (B ₂)	—	—	—	—	—	—	—	—	—
Feb	3	4hrs	Pyridoxime (B ₆) and Biotins (H)	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2018 - 2019

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER: <u>D. ch. Bhuvaneshwari</u>					CLASS: <u>II MSc (org. chem)</u> Semester: <u>II</u> Paper: <u>IV (Bio-organic chemistry)</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
Feb	4	4hrs	Unit IV: Nucleic acids	—	—	—	—	—	—	—	—	—
			Basic concepts of the structures of RNA and DNA	—	—	—	—	—	—	—	—	—
Mar	1	4hrs	nucleosides and heterocyclic bases,	—	—	—	—	—	—	—	—	—
Mar	2	4hrs	Genetic code, finger print test.	—	—	—	—	—	—	—	—	—
			Diagnosis of diseases insect control	—	—	—	—	—	—	—	—	—
Mar	3	4hrs	Improved biological detergents. gene-therapy	—	—	—	—	—	—	—	—	—

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