SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. Ramu

CLASS : I M.Sc (Organic chemistry) Semester : II Paper : I General chemistry.

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
July	I st	5h	UNIT-I Hydrogen atom - Solutions of R(r) eq^n	—	—	—	—	—	—	—	—	—
	2nd		$\Theta(\theta)$, $\Phi(\phi)$ eqns, probability density and shapes of orbitals	—	—	—	—	—	—	—	—	—
	3rd	4h	Perturbation theory derivation and	—	—	—	—	—	—	—	—	—
			its application to Heatom. Variation theorem. And	—	—	—	—	—	—	—	—	—
			its application to Harmonic oscillator	—	—	—	—	—	—	—	—	—
	4th	5h	many e$^\ominus$ atom Hartee. fock self Constitent field method.	—	—	—	—	—	—	—	—	—

Signature of the Lecturer

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

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. Ramu

CLASS : I MSc (Organic) Semester : II Paper : General Chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			UNIT-II Group theory Intro symmetry def elements.	—	—	—	—	—	—	—	—	—
			Operations and point group classification with	—	—	—	—	—	—	—	—	—
Aug	Ist	1hr	Schoenflies Symbols Axioms of group theory	—	—	—	—	—	—	—	—	—
			Group theory multiplication table C_{2v} & C_{3v} point groups	—	—	—	—	—	—	—	—	—
	II	5hr	Similarity transformation and classes Representations	—	—	—	—	—	—	—	—	—
			RR and IRR's Mulliken Symbols.	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. Ramu

CLASS : I M.Sc (Organic chemistry) Semester : II Paper : I, General chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Orthogonality Thm and its implications	—	—	—	—	—	—	—	—	—
			C_{2v}, C_{3v} Character tables and its anatomy	—	—	—	—	—	—	—	—	—
	III	4h	UNIT-III Errors; Accuracy precesion	—	—	—	—	—	—	—	—	—
			Classification of errors, Pts minimis -ation.	—	—	—	—	—	—	—	—	—
	IV	5h	Absolute, Relative errors. propagation of Errors.	—	—	—	—	—	—	—	—	—
			Gaussian distribution. Central tendency St deviation,	—	—	—	—	—	—	—	—	—

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B. V. Purnima
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G.Ramu

CLASS : I Msc (Organic chemistry) Semester : II Paper : I, (General chemistry)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Sep	1st	4hr	Mean, Median Hypothesis: t and f test	—	—	—	—	—	—	—	—	—
			Creteria of Rejection significant figures and computation rules	—	—	—	—	—	—	—	—	—
	2nd	4hr	UNIT-IV Introduction of Computer parts	—	—	—	—	—	—	—	—	—
	3rd	4hr	Computer memories Languages, Algorithms	—	—	—	—	—	—	—	—	—
			flow charts-Const. and variables. Statements:- IF	—	—	—	—	—	—	—	—	—
			types: GOTO, DIMENSION DO statements.	—	—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021-2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. Ramu

CLASS : I Msc (Organic chemistry) Semester : II Paper : I (General chemistry)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	IV	2h	Development of FORTRAN statements for formulae of diff.	—	—	—	—	—	—	—	—	—
	III	5h	Chemical eqns:- first order rate eqn standard	—	—	—	—	—	—	—	—	—
Oct	I	4h	deviation, Vander walls eqn --- flow chart and algorithms	—	—	—	—	—	—	—	—	—
	II	5h	programs.	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—

Signature of the Lecturer

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

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER T. Subramanyam CLASS : IMSC Semester : II Paper : Inorganic chemistry - II

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Introduction - Metal-cluster compounds - definition - evidences for existence of M-M bond - conditions favorable for formation of M-M bonds.	—	—	—	—	—	—	—	—	—
July	I	4hr	Preparation, structure and bonding of $Re_2Cl_8^{2-}$, $Mo_2Cl_8^{4-}$, $Re_2Cl_4(OOCR)_4$, $Mo_2(RCOO)_4(H_2O)_2$, $Cr_2(RCOO)_4(H_2O)_2$, $Cu_2(RCOO)_4(H_2O)_2$, $Cr_2Cl_9^{3-}$, $Mo_2Cl_9^{3-}$, $W_2Cl_9^{3-}$, Re_3Cl_9, $Re_3Cl_{12}^{3-}$, $Mo_6Cl_8^{4+}$, $Nb_6X_{12}^{2+}$ and $Ta_6X_{12}^{2+}$. Polyatomic clusters - Zintle ions, Chevrel phases.	—	—	—	—	—	—	—	—	—
	II	5hr		—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—

T. Subramanyam
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B. V. Ramana
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER: T. Subramanyam CLASS: IMSC Semester: II Paper: Inorganic chemistry-II

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	III	4hr	Organometallic compounds - 16 & 18 electron rule, Isoelectronic relationship -	—	—	—	—	—	—	—	—	—
			Synthesis, Structure, bonding and reaction of carbon monoxide, dinitrogen and nitric oxide complexes.	—	—	—	—	—	—	—	—	—
	IV	5h	Isolobal relationship - $H, Cl, CH_3, Mn(CO)_5$, $S, CH_2, Fe(CO)_4$, $CH, Co(CO)_3$. Synthesis, structure, bonding and reaction of metal nitrosyl.	—	—	—	—	—	—	—	—	—
Aug	I	4hr	Catalysis by Organometallic compounds - Homogeneous	—	—	—	—	—	—	—	—	—
	II	5hr	Catalysis - Alkene hydrogenation, Wilkinson's catalyst Hydroformylation	—	—	—	—	—	—	—	—	—

T. Subramanyam
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CURRICULUM LECTURER WISE 2021-2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER T. Subramanyam

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

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Sep	1st	4hr	Metal-Ligand equilibria in solution - stepwise and overall formation Constants and their	—	—	—	—	—	—	—	—	—
			interaction - trends in stepwise constants - factors affecting the stability of metal	—	—	—	—	—	—	—	—	—
	2nd	4hr	Complexes - Pearson's theory of hard and soft acids and bases chelate effect and	—	—	—	—	—	—	—	—	—
			its thermodynamic origin, determination of Stability Constants of complexes -	—	—	—	—	—	—	—	—	—
	3rd	4h	spectrophotometric method, pH-metric method. Reactivity of inert and labile complexes.	—	—	—	—	—	—	—	—	—
			Explanation of lability on basis of VBT & CFT. Bio-inorganic chemistry	—	—	—	—	—	—	—	—	—

T. Subramanyam
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B. V. Praveen
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021-2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER T. Subramanyam CLASS : IMSC Semester : II Paper : Inorganic Chemistry-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
	4th	3hr	Inorganic Reaction Mechanism - Substitution reactions of metal complexes - D, Id, Ia and A mechanisms - Ligand replacement reactions of octahedral complexes - Acid hydrolysis - factors affecting acid hydrolysis - Anation and Base hydrolysis of Cobalt(III) complexes. Ligand displacement reactions of square planar complexes of platinum(II). Factors affecting square planar substitution - trans effect. Electron transfer reactions of complexes	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—
Oct	1st	3hr		—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—
	2nd	4hr		—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—

T. Subramanyam
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B. V. Rama
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. B. Valli Purnima

CLASS : I M.Sc Organic Chemistry Semester : II Paper : III ORGANIC CHEMISTRY - 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
			Unit - I Reaction Mechanism (A) Alliphatic nucleophilic	—	—	—	—	—	—	—	—	—
			substitution and nucleophilic Aromatic substitution	—	—	—	—	—	—	—	—	—
July	1st	1hr	Stereo chemistry of SN^2 & SN^1 mechanisms.	—	—	—	—	—	—	—	—	—
			NGP, Neighboring group participation Vonrichter Sommelet	—	—	—	—	—	—	—	—	—
	2nd	1hr	(B) elimination Reactions Types of elimination reactions, mechanisms.	—	—	—	—	—	—	—	—	—
			Saytzess rules, Syn elimination Vs Anti-elimination.	—	—	—	—	—	—	—	—	—

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

CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER Dr. B. Valli purnima

CLASS : I M.Sc (Organic chemistry) Semester : II Paper : III (ORGANIC CHEMISTRY - 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
			Unit-II Addition Reactions (A) Addition of carbon-	—	—	—	—	—	—	—	—	—
	3rd	4hr	carbon multiple bonds, chemo selectivity & free radical region.	—	—	—	—	—	—	—	—	—
			hydrogeration of double & triple bonds.	—	—	—	—	—	—	—	—	—
	4th	3hr	(B) Addition to carbon -Netere multiple bonds.	—	—	—	—	—	—	—	—	—
			steric cause of addition reactions to C=O & C=N, Aldol, cannizaro, perkin	—	—	—	—	—	—	—	—	—
Aug	1st	4hr	Knoevenagel, claisensch -midt, Claisen mahrich, Michael rean	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. B. Valli purnima

CLASS : I M.Sc Organic chemistry Semester : II Paper : III ORGANIC CHEMISTRY

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	2nd		Unit-III Molecular rearrange -ments	—	—	—	—	—	—	—	—	—
	3th	4hr	Types of molecular rearrangements, migrato -ry aptitude.	—	—	—	—	—	—	—	—	—
	4th	4hr	rearrangements, migrating of electron deficient carbon	—	—	—	—	—	—	—	—	—
Sep	1st	4hr	pinacol- pinacolone, wagner- Meerwein, Tiffeneau - Demyanov,	—	—	—	—	—	—	—	—	—
	2nd	4hr	Dienone - phenol Alndt -Eisterrt Synthesis.	—	—	—	—	—	—	—	—	—
	3rd	4hr	Rearrangement of electron deficient nitrogen Beakmann, Hoffmann, rearrangement.	—	—	—	—	—	—	—	—	—

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

CURRICULUM LECTURER WISE 2021-2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Dr. B. Valli Purnima

CLASS: I MSc (Organic chemistry) Semester: II Paper: IV (Organic chemistry)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	4th	5hr	Unit-IV Spectroscopy and protecting Groups.	–	–	–	–	–	–	–	–	–
			(i) U.V visible absorption laws, electronic excitations.	–	–	–	–	–	–	–	–	–
	II	4hr	and absorption shifts, (ii) IR: fundamental modes of vibrations	–	–	–	–	–	–	–	–	–
			(iii) NMR: chemical shift and its importance.	–	–	–	–	–	–	–	–	–
Oct	III	5hr	coupling constant and its importance, (iv) Mass:- Same	–	–	–	–	–	–	–	–	–
	IV	2hr	useful terms used in mass spectroscopy protecting groups.	–	–	–	–	–	–	–	–	–

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

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

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

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
July	I st	4hr	Unit-I principle and theory of NMR.	—	—	—	—	—	—	—	—	—
	II	5hr	chemical shift and its origin. factors affecting chemial shift	—	—	—	—	—	—	—	—	—
	III	4hr	Spin-spin interaction with examples.	—	—	—	—	—	—	—	—	—
			NMR spectra of ethanol, styrene	—	—	—	—	—	—	—	—	—
Aug	I	4hr	NMR spectra of dimethyl formamide & acetophenone.	—	—	—	—	—	—	—	—	—
			E.S.R - principle and theory.	—	—	—	—	—	—	—	—	—

A.R.Satya
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B.V.L.M.S
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021-2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Dr. G.R. Satyanaryana. CLASS: I M.Sc Organic Chemistry Semester: II Paper: IV, Physical chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	III	5hr	Experimental techni-que - line shapes.	—	—	—	—	—	—	—	—	—
	IV	4hr	line width and g-factor.	—	—	—	—	—	—	—	—	—
			Hyperfine interactio-ns with different examples.	—	—	—	—	—	—	—	—	—
	I	3hr	Application of ESR Studies.	—	—	—	—	—	—	—	—	—
			Unit-II Introduction to Thermodynamics	—	—	—	—	—	—	—	—	—
	II	5hr	entropy & it signify, entropy changes in different process.	—	—	—	—	—	—	—	—	—

G.R Satyn
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B.V.P.Srinivas
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G. R. Satyanarayana

CLASS : I M.Sc (Organic chemistry) Semester : II Paper : IV physical chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Nernst Heat Theorem and III law of Thermodynamics.	—	—	—	—	—	—	—	—	—
			Determination of Absolute entropies of Solids, liquids,	—	—	—	—	—	—	—	—	—
			gases (S) determination Exceptions to III law of T.D.	—	—	—	—	—	—	—	—	—
			Objectives of statis -tical thermodynamic -S. Types of ensembles.	—	—	—	—	—	—	—	—	—
			concept of distributio -ny and different laws of distribution.	—	—	—	—	—	—	—	—	—
			partition function, Derivations molecular P.F's.	—	—	—	—	—	—	—	—	—

G. R Satyanarayana
Signature of the Lecturer

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

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Dr. G.R. Satyanarayana. CLASS: I MSc Organic Chemistry Semester: II Paper: IV, Physical Chemistry.

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Derivation of Rot., Vibr, traslational PFs.	—	—	—	—	—	—	—	—	—
			Relation blw E,H,S and G with partition function	—	—	—	—	—	—	—	—	—
Sep	I	4 Hrs	unit-III Electrochemistry Introduction & basics	—	—	—	—	—	—	—	—	—
	II	4 Hrs	concentration cell with and without transfe -rence.	—	—	—	—	—	—	—	—	—
			Effect of complex -ation on Redox potential and application(eg's)	—	—	—	—	—	—	—	—	—
	III	4 Hrs	Determination of solubility product, eq. constant and eo.	—	—	—	—	—	—	—	—	—

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

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

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

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	IV	4hr	Activity coeff: determination from EMF data	—	—	—	—	—	—	—	—	—
	I	4hr	Concept of activity, V, V± and Bierrum theory of ions.	—	—	—	—	—	—	—	—	—
			Debye-Huckel theory limiting law, limitations.	—	—	—	—	—	—	—	—	—
	II	4hr	Effect of dilution on different types of conductance (k, Λ, μ)	—	—	—	—	—	—	—	—	—
	IV	4hr	Debye-Huckel onsagar eqn, verification fuel cells.	—	—	—	—	—	—	—	—	—
			Unit-IV. Electrode electrolyte interface, double layer	—	—	—	—	—	—	—	—	—

G.R Satya
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B.V. [illegible]
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CURRICULUM LECTURER WISE 2021-2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. G.R. Satyanarayana. CLASS : I MSc Organic Chemistry Semester : II Paper : IV (physical chemistry)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Oct	I	5hr	Helmholtz-perrin, Gouy-chapmann diffuse charge models.	—	—	—	—	—	—	—	—	—
	II	4hr	Stern model and charge transfer reactions.	—	—	—	—	—	—	—	—	—
			Current density and over potential Voltametry.	—	—	—	—	—	—	—	—	—
	III	5hr	Derivation of butler-Volmer equation, Tafel equations.	—	—	—	—	—	—	—	—	—
			Concentration polarisation and experimental techniq	—	—	—	—	—	—	—	—	—

G. R. Satyanarayana
Signature of the Lecturer

B. V. Durga
Signature of the HOD

Signature of the Principal

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Ch. Bhavaneswari

CLASS : II MSc [Organic chem] Semester : IV Paper : I ORM II [Organic photochemistry]

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Mar	2st	5hr	UNIT-I (A) Free radical reactions neighboring group	—	—	—	—	—	—	—	—	—
	2nd	4hr	assistance in frec. radical reactions reactivity for a aliphatic substrates;	—	—	—	—	—	—	—	—	—
	3rd	4hr	Reactivity in aromatic substance, reactivity at bridge head	—	—	—	—	—	—	—	—	—
			oxidation of aldehydes to carboxylic acids	—	—	—	—	—	—	—	—	—
	4th	3hr	coupling of alkynes (elinton reaction & Glacer reaction)	—	—	—	—	—	—	—	—	—
			Mechanism of Sandmeyer reaction, Hunds dicker reaction, Reed reaction	—	—	—	—	—	—	—	—	—

Signature of the Lecturer

B. V. Ramana
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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Ch. Bhavaneswari

CLASS : II MSc [Organic Chem] Semester : IV Paper : IORM II & [Organic photochemistry]

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			(B) Rearrangements : wagner-meerwein rearrangment	—	—	—	—	—	—	—	—	—
APR	I	4hr	Demyanov rearrangment witting rearrangment and	—	—	—	—	—	—	—	—	—
			Stevens Rearrang-ment	—	—	—	—	—	—	—	—	—
	II	5hr	UNIT -II Methodologies in a-symmetric synthesis	—	—	—	—	—	—	—	—	—
			Strategies in Asymmetric synthesis : ① chiral substrate controlled	—	—	—	—	—	—	—	—	—
			② chiral reagent controlled ③ chiral catacyst controlled	—	—	—	—	—	—	—	—	—

Ch. Bhavaneswari
Signature of the Lecturer

B. V. Phanima
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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Ch. Bhaskaresworao

CLASS : II MSc(Organic chem) Semester : IV Paper : I. ORM II & Organic photochemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			① Chiral Substrate controlled asymmetric synthesis :-									
	III	4hr	Nucleophilic additions to chiral carbonyl compound 1, 2 asymetric induction									
			Crams rule & fleikin Anh model									
			② chiral reagent controlled									
	IV	5hr	asymmetric synthesis :- Asymmetric reductions									
			using BLNAL-H Asymmetric hydroxration using IPC2BH and IPCBH2									
			③ chiral catalyst controlled asymmetric synthesis :-									

Ch. Bhaskar
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Ch. Bhavaneswari.

CLASS : II MSc [Organic chem] Semester : IV Paper : I ORM-II & [Organic Photochemistry]

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	V	2hr	Sharpless and Sacobsen asymetric hydrobo- -ration	—	—	—	—	—	—	—	—	—
			epoxidations. sharpless asymmetric dihydroxy lation. Ayymmetric	—	—	—	—	—	—	—	—	—
May	I	4hr	hydro genations using chiral wilkinson biphosphine and	—	—	—	—	—	—	—	—	—
	II	5h	Nayori catalys enzyme mediated enantio Selective synthesis	—	—	—	—	—	—	—	—	—
	III	4h	UNIT - III Photo chemistry - I	—	—	—	—	—	—	—	—	—
			Photo chemical energy Frank condon Principle,	—	—	—	—	—	—	—	—	—

Ch. Bhavani
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B. V. Rama
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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Ch. Bhavaneswari.

CLASS : II MSC [organic chem] Semester : IV Paper : I. ORM II & Organic photo chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	IV	3hr	Types of electronic excitation and molecular orbital view of									
			excitation, Jablonski diagram, quantum efficiency and									
June	I	2hr	quantum yield. Photo chemistry of carbonyl compounds :-									
			Norrish type-I reaction									
			patero Buchi reaction, photo									
	II	3hr	reduction and photo enolisation, oxidation of alkenes									
			with singlex oxygen									

Ch. Bhavaneswari
Signature of the Lecturer

B. V. Prima
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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: Ch. Bhavaneswari

CLASS: II msc [organichem] Semester: IV Paper: ICRM II & Organic Photochemistry II

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	III	2hr	UNIT-III = Photo chemistry-II									
			Di-pi methane rearrangment, ox a di-pi methane rearangment									
	IV	3hr	Photo chemistry of unsaturated systems,									
July	I	3hr	cis-Trans Isomerisation of alkenes,									
			Photo chemistry of Butadiene, dimerisation of alkanes									
	II	2hr	Intra molecular dimerisation, Barton Reaction.									

Signature of the Lecturer: Ch. Bhav

Signature of the HOD: B. V. Purnima

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER: Dr. B. Vall purnima

CLASS : II (MSc Org) Chem Semester : IV Paper : II (Organic Spectroscopy)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Mar	1st	4hr	unit-I A, optical Rotartory dispersion: optical									
			Rotation, Empirical and semi Empirical rules CD spectroscopy.									
	2nd	4hr	Axial halo ketone rule octant rule Helicity rule									
			Application of the rule to study of absolute configuration									
			and confirmations of organic molecul -es.									
			unit-II A, Improving the PMR spectrum									

B. V. Purnima
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B. V. Purnima
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. B. Valli purnima

CLASS : II M.Sc (Org) Chem Semester : IV Paper : II (Organic spectroscopy)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Apr	1st	3hr	chemical and magnetic equivalence chemical Exchange,	—	—	—	—	—	—	—	—	—
			spectra and analysis of AB, AMX and ABY	—	—	—	—	—	—	—	—	—
	2nd	3hr	System B, simplification of Complex Spectra	—	—	—	—	—	—	—	—	—
			nuclear magnetic double resonance, Deuterium Exchange	—	—	—	—	—	—	—	—	—
	3rd	2hr	Spectra at higher - fields hindered Rotations and Rate	—	—	—	—	—	—	—	—	—
			Process. Resonance of other nuclei - 19F and 31P	—	—	—	—	—	—	—	—	—

B. V. Purnima
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. B. Valli purnima

CLASS : II Msc (Org) Chem Semester : IV Paper : II (Organic spectroscopy)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
May	4th	4hr	C, 2D NMR Spectro-scopy: definition and importance of	–	–	–	–	–	–	–	–	–
			Cosy, DEPT, HOMCOR HETCOR, NOE-GATE INDURINEPT, NUESY	–	–	–	–	–	–	–	–	–
	2nd	4hr	unit-III Solution of structual Problems by	–	–	–	–	–	–	–	–	–
	3rd	4hr	joint application of UV, IR, NMR (1H & 13C) and mass spectroscopy	–	–	–	–	–	–	–	–	–
June	1st	3hr.	unit-IV A, Seperation Tech-niques:-	–	–	–	–	–	–	–	–	–
	2nd	2hr	Solvent Extraction chromatography- Paper-thin layer	–	–	–	–	–	–	–	–	–

B. V. Purnima
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Dr. B. Valli Purnima

CLASS : II M.Sc (Org) chem Semester : IV Paper : (Organic spectroscopy)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Partion - column chromatography	-	-	-	-	-	-	-	-	-
	3rd	4hr	B, Instrumentation -Gas chromatogr-	-	-	-	-	-	-	-	-	-
			-aphy, High perfor- -mance, liquid	-	-	-	-	-	-	-	-	-
July	4th	3hr	chromatography, x-Ray diffraction.	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-
	1st	4hr		-	-	-	-	-	-	-	-	-

B. V. Purnima
Signature of the Lecturer

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER B. S. N. Murthy

CLASS : II msc organic chemistry Semester : IV Paper : III modern organic synthesis - 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
Mar	1st	4hr	Unit-I:- organo silanes synthetic applications of trimethylsilyl chloride	—	—	—	—	—	—	—	—	—
	2nd	4hr	dimethyl-t-butylsilyl chloride, trimethylsilyl cyanide, Synthetic	—	—	—	—	—	—	—	—	—
			applications of silyl enol ethers, preparation and synthetic	—	—	—	—	—	—	—	—	—
	3rd	4hr	applications of alkynl silanes, aryl silanes and	—	—	—	—	—	—	—	—	—
			vinyl silanes, Nazarov cyclisation,	—	—	—	—	—	—	—	—	—
	4th	4hr	Book rearrangement and Rubottom oxidation	—	—	—	—	—	—	—	—	—

B. S. N. Murthy
Signature of the Lecturer

B. V. Purnima
Signature of the HOD

Signature of the Principal

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

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

CLASS: II Msc (Org Chem) Semester: IV Paper: IV (Organic Synthesis)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Apr	IV	5hr	Unit-II:- oxidation Synthetic applications of the following reagent	–	–	–	–	–	–	–	–	–
	II	3hr	in the oxidation of functional groups like alkenes, alcohols	–	–	–	–	–	–	–	–	–
	III	4hr	① $Pb(OAc)_4$ ② SeO_2 ③ Jones reagent	–	–	–	–	–	–	–	–	–
	IV	3hr	④ Bables oxidation ⑤ MnO_2	–	–	–	–	–	–	–	–	–
			⑥ Sweern oxidation ⑦ oxidation by	–	–	–	–	–	–	–	–	–
	V	2hr.	using DDQ ⑧ thalium nitrate	–	–	–	–	–	–	–	–	–

Signature of the Lecturer

B.V. Ramana
Signature of the HOD

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER B.S.N. Murthy

CLASS : II Msc (Org) chem Semester : IV Paper : IV (Organic Synthesis)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
May	Ist	4hr	Unit-III:- Reduction Catalytic reductions, Homogenous (wilki-									
	II	3hr	-nsons catalytic red- -uctions) and hetroge -neous catalytic									
	III	4hr	reductions and their synthetic applications.									
	IV	3hr	Reductions by using electrophillic metal hydrides BH_3, DIBAL									
June	I	4hr.	Reductions by using Diimide and wolf- -kishner Reduction.									
			Reductions by using tri-n-butyl tin hydride									

Signature of the Lecturer

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

CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

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

CLASS: I M.Sc (Org) Chem. Semester: IV Paper: IV (Organic Synthesis)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	III	4hr	Unit IV:- Retro synthetic Analysis	—	—	—	—	—	—	—	—	—
	IV	2hr	1. Basic definitions of a) Retro synthetic analysis	—	—	—	—	—	—	—	—	—
July	I	2hr	b) Disconnection c) Target molecule d) Synthon 2. Guidelines for the order of events: one group C-X disconnection	—	—	—	—	—	—	—	—	—
	II	3hr	-S, one group C-C disconnections (Alcohols and Carbonyl	—	—	—	—	—	—	—	—	—
	III	4hr	Compounds. Linear and convergent synthesis	—	—	—	—	—	—	—	—	—

Signature of the Lecturer

B. V. [illegible]
Signature of the HOD

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER: Ch. Bhuvaneswari

CLASS: II M.Sc Organic Chem Semester: IV Paper: IV (Bio organic chemistry)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
Mar	I	4hr	Unit-I Biopolymers and Enzymes. Peptides: α-Amino	—	—	—	—	—	—	—	—	—
	II	4hr	acids, their general properties and synthesis,	—	—	—	—	—	—	—	—	—
	III	3hr	enzymes-oxidore-ductases, hydro-tases.	—	—	—	—	—	—	—	—	—
			Baker's Yeast. Enzyme models.	—	—	—	—	—	—	—	—	—
Apr	I	4hr	Unit II: Antimalari-als & Antibiotics.	—	—	—	—	—	—	—	—	—
			(i) chemotherapy, synthesis and	—	—	—	—	—	—	—	—	—

Ch. Bhuv
Signature of the Lecturer

B. V. Padma
Signature of the HOD

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)

NAME OF THE LECTURER: Ch. Bhuvaneswari CLASS: II M.Sc (org. chem) Semester: IV Paper: IV (Bio-organic chemistry)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	II	9hr	activity of antima-larial drug-	—	—	—	—	—	—	—	—	—
			quinoline group- quinine, acridine	—	—	—	—	—	—	—	—	—
	III	3hr	group and guanidine group paludrine.	—	—	—	—	—	—	—	—	—
			iii) General characte-ristics, structure-	—	—	—	—	—	—	—	—	—
May	IV	4hr	activity relationships, Synthesis and	—	—	—	—	—	—	—	—	—
			activity of antibiotics.	—	—	—	—	—	—	—	—	—

Signature of the Lecturer — Ch. Bhuvaneswari

Signature of the HOD — B. V. Ramana

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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Ch. Bhuvaneswari

CLASS : II M.Sc (Org. Chem.) Semester : IV Paper : IV (Bio organic chemistry)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	II	5 ~~hrs~~	Unit-III: Vitamins.	-	-	-	-	-	-	-	-	-
			Definition, occurence, Structural formulae,	-	-	-	-	-	-	-	-	-
	III	4hr	Physiological functi -ons and Synthesis	-	-	-	-	-	-	-	-	-
			of vitamins. Structure determina -tion and Synthesis	-	-	-	-	-	-	-	-	-
June	II	3hr	of Retinol (A_1), Thiamine (B_1), Riboflavin (B_2),	-	-	-	-	-	-	-	-	-
			Pyridoxime (B_6) and Biotin (H).	-	-	-	-	-	-	-	-	-

Ch. Bhuv
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B. V. Prima
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CURRICULUM LECTURER WISE 2021 - 2022

'ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER Ch. Bhuvaneswari

CLASS : II M.Sc (Org. chem) Semester : IV Paper : IV (Bio-inorganic chemistry)

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
					—	—	—	—	—	—	—	—
	IV	4hr	Unit-IV Nucleic acids:	—	—	—	—	—	—	—	—	—
	III	4hr	Basic concepts of the structures of RNA and DNA	—	—	—	—	—	—	—	—	—
July	I	3hr	nucleosides and heterocyclic bases,	—	—	—	—	—	—	—	—	—
	II	4hr	Genetic code, finger print test.	—	—	—	—	—	—	—	—	—
			diagnosis of diseases, insect control,	—	—	—	—	—	—	—	—	—
	III	4hr.	Improved biological detergents, gene therapy.	—	—	—	—	—	—	—	—	—

Ch. Bhuvaneswari
Signature of the Lecturer

B. V. Purnima
Signature of the HOD

Signature of the Principal