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

ANNUAL CURRICULAR

NAMR OF THE LECTURER : B. Tulasi Koteswara Bai

21-BS224 **PLAN (Year)** Organic & General Chemistry

CLASS : IBSc CB2 Semester : II Paper : II - Che II

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
June	1st	5	Syllabus Dictation, unit-I: Recapitulation of Basics of organic chemistry Carbon-carbon sigma bonds (Alkanes & cycloalkanes) General methods of preparation of alkanes — Wurtz and Wurtz-Fittig reaction, corey House synthesis Physical and chemical properties of alkanes, Isomerism and its effect on properties, Free radical substitutions; Halogenation, concept of relative reactivity v/s selectivity. Conformational analysis of alkanes (Conformations,	—	ppt will be shown.	—	—	—	—	—	—	—

B. Tulasi
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019-20 2020-21

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER : B.Tulasi Kotaswari Bai

21-BS224 Organic & General chemistry

CLASS : I BSc CBZ Semester : IV Paper : I Chemistry-IV

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			relative stability and energy diagrams of Ethane propane and butane)	—	—	—	—	—	—	—	—	—
	2nd	5	General molecular formulae of cyclo-alkanes and	—	—	—	—	—	—	—	—	—
			relative stability, Baeyer's strain theory, Cyclohexane conformations with energy diagrams, Conformations	Preparation methods for cyclo alkanes	—	—	—	—	—	—	—	—
			of mono substituted cyclohexane	—	—	—	—	—	—	—	—	—
			unit-II Carbon-Carbon pi Bonds (Alkenes and	—	—	—	—	—	—	—	—	—
			Alkynes) General methods of preparation, physical	—	—	—	—	—	—	—	—	—
			and chemical properties.	—	—	—	—	—	—	—	—	—
	3rd	5	Mechanism of E1, E2, E1cb reactions	—	Ppt will be shown.	—	—	—	—	—	—	—

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

ANNUAL CURRICULAR

NAMR OF THE LECTURER : B. Tulasi Kotewari Bai

21-BS-224 **PLAN** (Year) Organic & General Chemistry

CLASS : I BSc CBZ Semester : II Paper : I 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
			Saytzeff and Hoffmann elimi- nations. Electro-	—	—	—	—	—	—	—	—	—
			philic Additions, mechanism (Markonikov/Anti	—	—	—	—	—	—	—	—	—
			markonikov addition) with suitable examples, Syn and	—	Youtube Video will be shown.	—	—	—	—	—	—	—
			anti-addition: addition of H_2, X_2, HX. Oxymercuration -demercuration	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—
	4rth	5	Hydroboration — oxidation, ozonolysis, hydroxylation.	—	—	—	—	—	—	—	—	—
			Diel's-Alder reaction 1,2- and 1,4-addition reactions in	—	—	—	—	—	—	—	—	—
			Conjugated dienes. Reactions of alkynes, acidity, electrophilic	—	—	—	—	—	—	—	—	—
			and nucleophilic additions, hydration to form carbonyl	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2019-20 20-21

ANNUAL CURRICULAR

NAMR OF THE LECTURER : B. Tulasi Koteswari Bai

21-BS 224 **PLAN (Year)** Organic & General chemistry

CLASS : I BSc CBZ Semester : II Paper : II, 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
			Compounds, Alkylation of terminal alkynes	—	—	—	—	—	—	—	—	—
September	1st	5	unit-III Benzene and its reactivity	—	—	—	—	—	—	—	—	—
			Concept of aromaticity, Huckel's rule - application to	—	—	—	—	—	—	—	—	—
			Benzenoid (Benzene, Naphthalene) and Non-Benzenoid	—	—	—	—	—	—	—	—	—
			compounds (cyclopropenyl cation, cyclopentadienyl	—	—	—	—	—	—	—	—	—
			anion and tropylium cation) Reactions- General	—	—	—	—	—	—	—	—	—
			mechanism of electrophilic aromatic substitution,	—	—	—	—	—	—	—	—	—
			mechanism of nitration.	—	—	—	—	—	—	—	—	—
	2nd	5	Friedel-Craft's, alkylation and acylation.	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2019-20 20 21

ANNUAL CURRICULAR

NAMR OF THE LECTURER : B. Tulasi Kotaswari Bai

21-BS224 **PLAN (Year)** Organic & General chemistry

CLASS : I BSc (BZ Semester : II Paper : II. 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
			Orientation of aromatic substitution - ortho para and meta directing groups. Ring activating and deactivating groups with examples (Electronic interpretation of various like NO, and phenolic)	—	—	—	—	—	—	—	—	—
			Orientation of (i) Amino, methoxy and methyl groups. (ii) Carboxy, nitro, nitrile and carbonyl and sulphonic acid groups (iii) Halogens. (Explanation by taking minimum of one example from each type)	—	—	—	—	—	—	—	—	—
	3rd	5	unit-IV 1. Surface chemistry colloids - coagulation	Lyophilic & Lyophobic colloids	—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE : 2020-21

ANNUAL CURRICULAR PLAN (Year) Organic & General chemistry

NAMR OF THE LECTURER : B. Tulasi Kotaswari Bai
21-BS224
CLASS : IBSc CB2 Semester : II
Paper : II, 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
			of Colloids - Hardy Schulze rule. Stability of Colloids,	—	—	—	—	—	—	—	—	—
			Protection of colloits Gold number. Adsorption - physical	—	—	—	—	—	—	—	—	—
			and chemical adsorption, Langmuir adsorption	Freundlich adsorption Isotherm	—	—	—	—	—	—	—	—
			isotherm, applications of adsorption.	—	—	—	—	—	—	—	—	—
	3rd	5	2. chemical Bonding Valence bond theory, hybridisation,	Types of chemical bonds.	—	—	—	—	—	—	—	—
			VB theory as applied to ClF_3, $Ni(CO)_4$, Molecular orbital	—	—	—	—	—	—	—	—	—
			theory - LCAO method, construction of MO diagrams for homo-	—	—	—	—	—	—	—	—	—
			nuclear and hetero nuclear diatomic molecules (N_2, O_2,	—	—	—	—	—	—	—	—	—
			CO and NO).	—	—	—	—	—	—	—	—	—

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CURRICULUM LECTURER WISE 2019-20 20-21

ANNUAL CURRICULAR

NAMR OF THE LECTURER : B. Tulasi Kotewari bai

21-BS-224 **PLAN** (Year) Organic and General chemistry

CLASS : I BSc CB2 Semester : II Paper : II che-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
	4rth	5	3. H.S.A.B Pearson's Concept, HSAB principle &	Applications of HSAB	—	—	—	—	—	—	—	—
			its importance, bonding in Hard-Hard and	—	—	—	—	—	—	—	—	—
			Soft-Soft combinations -	—	—	—	—	—	—	—	—	—
			Unit-V Stereochemistry of carbon compounds	—	—	—	—	—	—	—	—	—
			Molecular representations - wedge Fischer, Newman,	—	—	—	—	—	—	—	—	—
			Saw-Horse formulae. Optical isomerism:	—	—	—	—	—	—	—	—	—
			Optical activity — wave nature of light, plane polarised	—	—	—	—	—	—	—	—	—
			light, optical rotation and Specific rotation	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU
CURRICULUM LECTURER WISE 2019 - 2020 ~~21~~ 20

ANNUAL CURRICULAR PLAN (Year) organic and General chemistry

NAMR OF THE LECTURER : B. Tulasi kotaswaribai

CLASS : DBSc CB2 Semester : II Paper : II, Chemistry-II

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Co 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
October	1st	5	chiral-molecules-definition and criteria (Symmetry elements) - Definition of enantiomers and diastereomers - Explanation of optical isomerism with examples - Glyceraldehyde Lactic acid, Alanine, Tartaric acid, 2,3-dibromo pentane. D, L, R, S and E, Z- Configuration with examples. Definition of Racemic mixture - Resolution of racemic mixtures (any 3) techniques	Mesomers - Definition, examples.	—	—	—	—	—	—	—	—
	2nd	02	—	Remedial class.	Remedial-2	2	Yes	—	—	—	—	—
	3rd 4rth	02 03	—	Remedial — class. Remedial —	Remedial-2 Remedial-1 Seminar, Quiz	2 1	Yes Yes	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: P. RAMYA KRISHNA

CLASS: III BSC. Semester: IV Paper: Spectroscopy and 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
APRIL	2nd	4	phase Rule, concept of phase, components degrees of freedom	–	–	–	–	–	–	–	–	–
			water system and Ag-Pb system and it's Application	–	–	–	–	–	–	–	–	–
	3rd	5	NaCl-water system, Freezing mixtures, colligative properties	Freezing mixtures experiment	will be shown freezing mixtures	01	yes	–	–	–	–	–
	4th	5	Raoult's law, osmotic pressure elevation in Boiling point	–	–	–	–	–	–	–	–	–
MAY	1st	5	Depression in Freezing point, Vant' Hoff factor	–	–	–	–	–	–	–	–	–
	2nd	5	Spectroscopy: Beer lambert's law, and it's applications	–	student seminar	01	yes	–	seminar	01	yes	–

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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: P. RAMYA KRISHNA.

CLASS : II B.Sc Semester : IV Paper : Spectroscopy & 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
	3rd	5	Single & double beam spectrophotometer, Interaction of electromagnetic	—	—	—	—	—	—	—	—	—
			radiation and types of molecular spectra	will be shown Types of molecular spectroscopis	PPT presentation of molecular spectra	01	yes	—	—	—	—	—
	4th	5	Types of electronic transitions, effect of conjugation	—	—	—	—	—	—	—	—	—
			chromophore & auxochromo different regions in IR	—	—	—	—	—	—	—	—	—
JUNE	1st	5	Interpretation of IR spectra, characteristic	—	—	—	—	—	—	—	—	—
			absorption bands principle of NMR, equivalent and	—	debate	01	yes	—	debate	01	yes	—

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CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR

NAMR OF THE LECTURER P. RAMYA KRISHNA

PLAN (Year)

CLASS : III BSc Semester : IV Paper : Spectroscopy & 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
			anon equivalent Protons, Spin-Spin coupling coupling const	—	—	—	—	—	—	—	—	—
			Applications of NMR Spectra	Remedial class	—	—	—	—	—	—	—	—
June	2nd	5	specific and equivalent conductances	—	—	—	—	—	—	—	—	—
			Asshenics theory ostwald's dilution law	—	—	—	—	—	—	—	—	—
June	3rd	5	debye - Huckel theory, Transport	—	—	—	—	—	—	—	—	—
			Number, Applications of conductometric	—	Group Discussion	01	yes	—	—	—	—	—
June	4th	5	Titrations Single electrode potential	conductometric Titrations experiments	—	—	—	—	—	—	—	—
			Sign convention Reversible Irreversible cells	—	—	—	—	—	—	—	—	—
			Nernest equation SHE, calomel electrode	—	Quiz	01	yes	—	Quiz	01	yes	—

P. Ramya Krishna

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CURRICULUM LECTURER WISE ~~2019~~ 2020 - 2021

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER P. RAMYA KRISHNA

CLASS : II BSc Semester : ~~II~~ IV Paper : Spectroscopy & 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
July	1st	3	Indicator electrode, metal	–	Indicator electrode PPT presentation	01	yes	–	–	–	–	–
			metal ion electrode Inert electrode	–	–	–	–	–	–	–	–	–
			EMF. Application of EMF and	–	–	–	–	–	–	–	–	–
			Potentiometric titrations	will be conduct potentiometric titrations	potentiometric titrations	01	yes	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–

P. Ramya

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020- 2021

ANNUAL CURRICULAR **PLAN (Year)** Analytical Methods in chemistry

NAMR OF THE LECTURER V. RAJA RAJESWARI CLASS : III B.Sc Semester : VI Paper : VII (A)

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
Apr	3	2	Introduction, Quantitative analysis a) Importance in various fields of science,	Definition of Quantitative and Qualitative analysis with examples	–	–	–	–	–	–	–	–
	4	4	steps involved in chemical analysis, Principles of volumetric analysis – Theory		–	–	–	–	–	–	–	–
	5	3	of acid-base, redox, complexometric, iodometric and precipitation titrations	–	–	–	–	–	–	–	–	–
May	1	4	Choice of indicators b) Principles of gravimetric analysis – Precipitation,	–	showing Desiccator and crucibles	–	–	–	–	–	–	–
	2	4	Coagulation, peptization, co-precipitation, post precipitation,	–	–	–	–	–	–	–	–	–
	3	4	digestion, filtration washings, drying & ignition. Treatment of analytical data – Types of errors	–	–	–	–	–	–	–	–	–

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020 2021

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER V. RAJA RAJESWARI

CLASS : III BSC Semester : VI Paper : VII (A) Analytical Methods in chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
May	4	5	Significant figures and its importance accuracy - methods of expressing accuracy, error analysis	—	—	—	—	—	—	—	—	—
June	1	4	minimization of errors, precision - methods of expressing Precision, Standard deviation, Confidence limit	—	—	—	—	—	—	—	—	—
	2	4	Solvent extraction Introduction, principle techniques, factors affecting solvent	Definitions of solute, solvent, solvent extraction	—	—	—	—	—	—	—	—
	3	4	extraction, Batch extraction, continuous extraction and Counter current extraction Synergism	—	—	—	—	—	—	—	—	—
	4	4	Det. of Iron (III), Ion exchange: Introduction, action of ion exchange resins separation of inorganic mixtures.	Types of ion exchange resins.	—	—	—	—	—	—	—	—
	5	2	Chromatography classification of chromatography methods	Definition of S-P, M.P and Chromatography	—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020- 2021

ANNUAL CURRICULAR | **PLAN (Year)**

NAMR OF THE LECTURER V. RAJA RAJESWARI | CLASS : III BSC | Semester : VI | Paper : VII (A) Analytical methods in chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
July	1	4	Principles of differential migration adsorption phenomena, Nature of adsorbents, solvents systems,	—	—	—	—	—	—	—	—	—
	2	4	Rf values factors effecting Rf values. Paperchromatography	Identification of unknown sample by using Rf value	—	—	—	—	—	—	—	—
	3	4	Principles, Rf values experimental procedure choice of Papers and solvent system developments, application,	—	—	—	—	—	—	—	—	—
	4	4	Thin Layer chromatography - Advantages Principles, factors effecting Rf values. Experimental procedure	Introduction of TLC	showing TLC plates	—	—	—	—	—	—	—
Aug	1	4	Adsorbents and solvents. Preparation of plates. Development of the chromatogram.	—	—	—	—	—	—	—	—	—
	2	4	Detection of spots. Applications. Column chromatography Principles, experimental procedures,	Introduction of column chromatography	—	—	—	—	Seminar Group Discussion	1 11	Yes	

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER V. RAJA RAJESWARI

CLASS : III BSc Semester : VI Paper : VII (A) Analytical methods in 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
Aug	3	4	Stationary & mobile Phases, separation technique. Application HPLC - Principle and applications	Instrumentation of HPLC	—	—	—	—	Debate Quiz	1 1	Yes	—
	4	=	—									

V. R. Raj

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER : I. SUJATHA

CLASS : III B.Sc Chem Semester : VI Paper : Polymer chemistry cluster A1

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
April	2nd	4	Introduction of polymers, basic definitions, Nature of polymerisation, classification of polymers, Linear branched and cross linked polymers	—	—	—	—	—	—	—	—	—
	3rd	4	Addition and condensation of polymers, mechanism of free radical and ionic polymerisation, Ziegler Natta polymerisation	—	—	—	—	—	—	—	—	—

Signature of the Lecturer I. Sujatha

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020- 2024

ANNUAL CURRICULAR | **PLAN (Year)**

NAMR OF THE LECTURER: K-SUJATHA.

CLASS : III B.Sc Chem Semester : VI Paper : polymer chemistry Chem 6A

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO-CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
April	4th	3	unit-II : Techniques of polymerisation, bulk polymerisation	—	Remedial class	01	Yes	—	—	—	—	—
			Solution, Suspension and emulsion polymerisation	—	—	—	—	—	—	—	—	—
May	1st	4	No.1 average molecular weight and weight avg molecular weight	—	—	—	—	—	—	—	—	—
			Determination of molecular weight osmometry and viscometry.	—	—	—	—	—	—	—	—	—
	2nd	4	Kinetics of free radical polymerisation. Glass transition	—	—	—	—	—	PPT will be shown	01	Yes	—
			temperature and determination of Tg, free volume theory	—	—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020 2021

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER: K. SUJATHA

CLASS: III B.Sc class Semester: VI Paper: class A; polymer chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
May	3rd	4	WLF equation, Factors effecting Tg,	—	—	—	—	—	—	—	—	—
			plasticizers, softners, Fillers.	—	—	—	—	—	—	—	—	—
	4th	4	Lubricants, flow promoters, Anti aging additives,	—	Remedial class	01	yes	—	—	—	—	—
			Flame retardants, colourants	—	—	—	—	—	—	—	—	—
June	1st	4	Blowing agents, cross linking agents, flow	—	—	—	—	—	—	—	—	—
			promoters, photo stabilizers	—	—	—	—	—	seminar	01	yes	—

Signature of the Lecturer: K. Sujatha

Signature of the HOD: B

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 20 - 20

ANNUAL CURRICULAR | **PLAN (Year)**

NAMR OF THE LECTURER K. SUJATHA | CLASS : III B.Sc Chemistry Semester : VI | Paper : polymer chemistry Chemistry A1

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	2nd	4	Nucleating agents, Flow promotors	—	—	—	—	—	—	—	—	—
			cross linking agents	—	—	—	—	—	ppt will be shown	01	Yes	—
	3rd	4	Industrial application of polyethylene	—	—	—	—	—	—	—	—	—
			poly vinyl chloride	—	—	—	—	—	Quiz	01	Yes	—
	4th	4	Industrial applications of Teflon.	—	—	—	—	—	—	—	—	—
			Terelene	—	Remedial class	—	—	—	—	—	—	—

Signature of the Lecturer K. Sujatha Signature of the HOD B. D Signature of the Principal

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020- 2021

ANNUAL CURRICULAR — **PLAN (Year)**

NAMR OF THE LECTURER K-SUJATHA

CLASS : III B.Sc Chem Semester : VI Paper : Chem Ta A1 polymers chemistry

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
July.	1st	4	preparation and industrial applications of	—	—	—	—	—	—	—	—	—
			poly acryl nitrile, Nylon 6,6.	—	—	—	—	—	—	—	—	—
	2nd	4	preparation and industrial	—	—	—	—	—	Group Discussion	01	Yes	—
			applications of silicons	—	—	—	—	—	—	—	—	—
	3rd	4.	preparation and Industrial applications of	—	—	—	—	—	—	—	—	—
			PAN.									

Signature of the Lecturer K-Sujatha Signature of the HOD B2 Signature of the Principal

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020 - 2021

ANNUAL CURRICULAR PLAN (Year) — Instrumental methods of analysis

NAMR OF THE LECTURER S. R. Tejaswi | CLASS : cluster | Semester : VI | Paper : VIII - A_2

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
April	2nd	4hrs	Introduction to spectroscopic methods of analysis - treatment of analytical data, error	–	–	–	–	–	–	–	–	–
			analysis, classification of analytical methods	–	–	–	–	–	–	–	–	–
	3rd	4hrs	Types of Instrumental methods consideration of EMR.	–	–	–	–	–	–	–	–	–
			IR spectroscopy - Absorption & scattering, light sources, separation of spectrums.	–	–	–	–	–	–	–	–	–
	4th	3hrs	Detection of signal. Interpretation of spectrum, advantages of FTIR samples & Result expected	FTIR instrumentation	–	–	–	–	–	–	–	–
	5th	4hrs	Applications of Quality assurance & quality control.		Student Seminar	01	Yes	–	Student Seminar	01	Yes	–

Signature of the Lecturer: S.R. Tej

Signature of the HOD: B. Anu

Signature of the Principal: Sailaja

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020- 2021

ANNUAL CURRICULAR — **PLAN (Year)**

NAMR OF THE LECTURER: S.R.Tejasvi

CLASS: cluster — Semester: VI — Paper: cluster A2 — Instrumental methods of Analysis

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
			UV-spectroscopy- emission, absorption, fluorescence, photo acoustic, excitation sources.	-	Quiz	01	Yes	-	-	-	-	-
May	1st	4hrs	wavelength dispersion, Detection of signal, single & double beam instruments Interpretation.	-	-	-	-	-	-	-	-	-
	2nd	4hrs	chromatography- Gas-liquid chromatography, super critical fluids, Importance of column	-	-	-	-	-	-	-	-	-
			technology packing, capillaries.	-	-	-	-	-	-	-	-	-
	3rd	4hrs	Separation based on increasing no. of factors. Detection simple Vs specific,	-	Debate	01	Yes	-	-	-	-	-
			Detection of further analysis.	-	-	-	-	-	-	-	-	-

Signature of the Lecturer: S.R.Tej

Signature of the HOD: B.R

Signature of the Principal: Satya

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020- 2021

ANNUAL CURRICULAR PLAN (Year) Instrumental methods of Analysis

NAMR OF THE LECTURER S.R. Tejaswi

CLASS : M.Sc I Semester : VI Paper : VIII - A2

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	4th	4hrs	Mass spectroscopy- Making the gaseous molecules into ions Making liquids & solids into ions, separation of ions on basis of m/e ratio.	Mass principle.	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—
June	1st	4 hrs.	Resolution, time & multiple separations Detection & Interpretation.	—	Group Discussion	01	Yes	—	—	—	—	—
	2nd	4hrs	Mass spectrometry:- Atomic spectroscopy, Atomic absorption,	—	—	—	—	—	—	—	—	—
			Atomic emission, Atomic fluorescence.	—	will be shown ppt's	—	—	—	—	—	—	—
	3rd	4hrs	Excitation & getting sample into gas phase, wavelength separation & resolution	—	—	—	—	—	—	—	—	—

S.R.Tej

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Signature of the Principal

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020- 2021

ANNUAL CURRICULAR PLAN (Year) Instrumental methods of Analysis

NAMR OF THE LECTURER S.R. Tejaswi

CLASS : Msc I Semester : II Paper : Msc I - A2

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
	4th	4hrs	Selection & Interpretation. NMR spectroscopy:- Principle, Instrumentation.	–	will be shown PPT's	–	–	–	–	–	–	–
July	1st	4hrs.	chemical shift & factors, spin coupling, Applications	–	–	–	–	–	–	–	–	–

Signature of the Lecturer S.R. Teja

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER P. RAMYA KRISHNA.

CLASS : III BSC- clusters cluster-A Analysis of Drugs, Semester : VI Paper : Foods & Biochemical Analysis

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
April	2nd	4	Unit-1: Analysis of Aspirin, Paracetamol and Analysis of chloroquine	–	–	–	–	–	–	–	–	–
	3rd	4	Analysis of Amoxycillin and Penicillin,	–	–	–	–	–	–	–	–	–
			Analysis of Isoniazid	–	–	–	–	–	–	–	–	–
	4th	3	Unit-2 Analysis of Allegra, cetrizine and	–	–	–	–	–	–	–	–	–
			Analysis of Trazadone	–	–	–	–	–	–	–	–	–
may	1st	4	Analysis of Trazadone, lorazepam.	–	student seminar	01	yes	–	student seminar	01	yes.	–

P. Ramya

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR PLAN (Year)

NAMR OF THE LECTURER P. RAMYA KRISHNA

CLASS : III BSC - CLUSTER Semester : VI

cluster A: Analysis of Drugs, Foods & Biochemical Analysis

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
			Analysis of ambien and diazepam	-	-	-	-	-	-	-	-	-
	2nd	4	Analysis of anti epileptic and anticonvulsant	-	-	-	-	-	-	-	-	-
			drugs like phenobarbitol & phenacemide	-	-	-	-	-	-	-	-	-
	3rd	4	Analysis of cardiovascular drugs like atenolol	-	-	-	-	-	-	-	-	-
			nervasc lipitor and furosemide	-	Debate	01	yes	-	-	-	-	-
	4th	4	Analysis of prevacid and slip tests	Remedial class	-	-	-	-	-	-	-	-

P. Ramya

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR PLAN (Year) cluster A: Analysis of Drugs,

NAMR OF THE LECTURER: P. RAMYA KRISHNA. CLASS: III BSC-CLUSTER Semester: VI Paper: Foods & Biochemical Analysis

MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	CO- CURRICULAR ACTIVITY: Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
June	1st	4	clinical analysis and composition	–	Group discussion	01	yes	–	–	–	–	–
			of Blood.	Different Blood Groupings	–	01	yes	–	–	–	–	–
	2nd	4	Trace elements in the body	–	coill be shown, PPTS.	–	–	–	–	–	–	–
	3rd	4	Estimation of blood Glucose & Blood cholesterol	–	–	–	–	–	–	–	–	–
	4th	4	Analysis of milk and milk products,	Analysis of milk acidity Demonstration	Analysis of casein in milk	01	yes	–	–	–	–	–
			acidity, Total solids, Fat	–	Quiz	01	yes	–	Quiz	01	yes	

P. Ramya Krishna
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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2019-2020

ANNUAL CURRICULAR | **PLAN (Year)**

NAMR OF THE LECTURER: P. RAMYA KRISHNA

CLASS: III BSc-CLUSTER Semester: VI Paper: Foods & Biochemical Analysis

cluster A3 Analysis of Drugs

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	1st	4	Analysis of Proteins, lactose,	percentage of lactose calculation	lactose % experiment & it's calculation	02	yes	-	-	-	-	-
			phosphatase activity casein and chloride	-	-	-	-	-	-	-	-	-
	2nd	4	Analysis of food materials	-	-	-	-	-	-	-	-	-
			preservatives colouring matters	-	will be shown preservatives PPT's.	-	-	-	-	-	-	-
	3rd	4	Adulterants in rice, coheat	project work on milk and	-	-	-	-	-	-	-	-
			wheat flour, coconut oil, coffee Powder & milk	milk products	-	-	-	-	-	-	-	-

P. Ramya
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