

ANNUAL CURRICULAR					PLAN (Year) Inorganic & physical Chemistry								
NAMR OF THE LECTURER M-SARASWATHI					CLASS : IB.Sc			Semester : J		Paper : Chemistry-T			
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	01	05	Syllabus dictation, Introduction of P-block elements	Types of Chemical bonds	-	-	-	-	-	-	-	-	-
			Group 13- preparation & structure of diborane & Boraxide	metals & Non metals.	-	+	-	-	-	-	-	-	-
	02	05	Group 14- preparation classification, applications & uses of silicones	-	-	-	-	-	-	-	-	-	-
			Group 15- preparation & structure of phosphonic compounds (PNX <sub>2</sub> ) <sub>3</sub>	-	-	-	-	-	-	-	-	-	-
			(PNX <sub>2</sub> ) <sub>4</sub>	-	-	-	-	-	-	-	-	-	-
	03	05	Group 16- structures of oxides of Sulphur	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

M. Saraswathi

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>M. SARASWATHI</i>					CLASS <i>BSc MPC-1</i> Semester: <i>I</i>				Paper: <i>Inorganic &amp; physical chemistry</i> <i>Chemistry I</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>S<sub>2</sub>O, SO<sub>2</sub>, SO<sub>3</sub> structures of oxyacids of sulphur- H<sub>2</sub>SO<sub>3</sub>, H<sub>2</sub>SO<sub>4</sub> with detailed explanation</i>	-	-	-	-	-	-	-	-	-	-
			<i>Group 17- definition classification, structures of interhalogen compounds pseudo halogens.</i>	-	-	-	-	-	-	-	-	-	-
	<i>4</i>	<i>05</i>	<i>characteristics of d-block elements with special reference to electronic configuration (3d, 4d &amp; 5d)</i>	-	-	-	-	-	-	-	-	-	-
			<i>Variable valence, magnetic properties</i>	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer  
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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 <i>M. SARASWATHI</i>					CLASS : <i>IB &amp; MPC-1</i>		Semester : <i>I</i>		Paper : <i>chemistry I</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>Catalytic properties and ability to form complexes, stability of various oxidation states</i>	-	-	-	-	-	-	-	-	-	-
<i>Mar</i>	<i>1</i>	<i>04</i>	<i>chemistry of f-f-block elements, chemistry of lanthanides - electronic structure, oxidation states, lanthanide contraction, magnetic properties</i>	-	-	-	-	-	-	-	-	-	-
			<i>chemistry of actinides -</i>	-	-	-	-	-	-	-	-	-	-

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**CURRICULUM LECTURER WISE 2019-2020-2021**

ANNUAL CURRICULAR					PLAN (Year)				Inorganic & Physical Chemistry				
NAMR OF THE LECTURER M. SARASWATHI					CLASS : BSC MPC-1 Semester : I				Paper : Chemistry-T				
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	
	02	2	electronic Configuration, oxidation states, Actinide	-	-	-	-	-	-	-	-	-	-
			contraction, Comparison of lanthanides & Actinides	-	-	-	-	-	-	-	-	-	-
	3rd	05	theories of bonding in metals. characteristics of metal	-	-	-	-	-	-	-	-	-	-
			metallic bands, Free electron theory explanation of	-	-	-	-	-	-	-	-	-	-
			thermal & electrical properties based on this theory	-	-	-	-	-	-	-	-	-	-
			VBT postulates, explanation of	-	-	-	-	-	-	-	-	-	-

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**CURRICULUM LECTURER WISE 2019 - 2020-21**

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>M. SARASWATHI</i>					CLASS : <i>B.Sc MPC-1</i>		Semester : <i>I</i>		Paper : <i>Chemistry-I Inorganic &amp; Physical Chemistry</i>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			Conductors, Semi Conductors & insulators	-	-	-	-	-	-	-	-	-	-
<i>March</i>	<i>4th</i>	<i>5</i>	Band-theory- MO theory- formation of bands	-	<i>Seminar</i>	<i>01</i>	<i>yes</i>	-	-	-	-	-	-
			of bands explanation of conductors semi conductors & insulators	-	-	-	-	-	-	-	-	-	-
			<u>Gaseous state</u> Ideal & Non ideal	-	-	-	-	-	-	-	-	-	-
			gases, Deviation from Boyle's law, deviation from Charles law and Avagadro's law, vanderwaals equation	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2019 - 2020 - 21

ANNUAL CURRICULAR					PLAN (Year)											
NAMR OF THE LECTURER					CLASS				Semester				Paper			
M. SARASWATHI					IBSC MPC-1				F				Inorganic & 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				
			Andrew's isotherm of CO <sub>2</sub> , continuity of state, critical phenomenon. Law of corresponding states.	-	-	-	-	-	-	-	-	-	-			
			Liquification of gases. Joule-Thomson effect,	-	Debate	01	yes	-	-	-	-	-	-			
			Liquification of gases by claud's & Linde's method	-	-	-	-	-	-	-	-	-	-			
			Inversion temperature.	-	-	-	-	-	-	-	-	-	-			
	3 <sup>rd</sup>	05	Liquid state: structural differences between	-	-	-	-	-	-	-	-	-	-			

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CURRICULUM LECTURER WISE 2019 - 2020 -21

ANNUAL CURRICULAR					PLAN (Year)											
NAMR OF THE LECTURER					CLASS : <u>IB.se MPC-I</u>				Semester : <u>I</u>				Paper : <u>Chemistry &amp; Physical 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				
-	-		Solid, liquid & gases	-	-	-	-	-	-	-	-	-	-			
			liquid crystals, mesomorphic state	-	-	-	-	-	-	-	-	-	-			
			Differences between liquid crystals & solids, liquids	-	-	-	-	-	-	-	-	-	-			
			classification of liquid crystals into smectic & nematic.	-	-	-	-	-	-	-	-	-	-			
			applications of liquid crystals & LCD devices	-	-	-	-	-	-	-	-	-	-			
			Solutions: types of binary solutions, completely miscible	-	-	-	-	-	-	-	-	-	-			
			liquids	-	-	-	-	-	-	-	-	-	-			

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

ANNUAL CURRICULAR					PLAN (Year)				Inorganic & Physical Chemistry				
NAMR OF THE LECTURER M. SARASWATHI					CLASS: B.Sc MPC-T Semester: I				Paper: Chemistry - I				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
	4th	05	Ideal & Non Ideal solutions. Azeotropes	-	-	-	-	-	-	-	-	-	-
			HCl-H <sub>2</sub> O & ethanol water system. partially miscible liquids.	-	-	-	-	-	-	-	-	-	-
			phenol-H <sub>2</sub> O system. critical solution temperature.	-	-	-	-	-	-	-	-	-	-
			Effect of impurity on consolute temperature	-	-	-	-	-	-	-	-	-	-
			Immisible liquids & steam distillation. Nernst distribution law	-	-	-	-	-	-	-	-	-	-
			calculation of the partition coefficient	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year) Inorganic & physical Chemistry								
NAMR OF THE LECTURER M. SARASWATHI					CLASS : B.Sc.MC-I Semester : I Paper : Chemistry-I								
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			applications of distribution law	-	-	-	-	-	-	-	-	-	-
may	1st	05	<u>Ponic equilibrium:</u> Ponic product, com- mon ion effect, solubility product, calculations based on solubility product	-	-	Group discussion	01	yes	-	-	-	-	-
			<u>Dilute solutions &amp; colligative property.</u> RLVP, osmotic pressure, elevation in BP and depre- -ssion in FP. Exp- -erimental deter- -mination for molar	-	-	Quiz	01	yes	-	-	-	-	-
			mass of a non-vo- -latile solute using osmotic pressure	-	-	-	-	-	-	-	-	-	-
may	2nd	05	Determination of molar mass of a	-	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year) <i>Inorganic &amp; Physical Chemistry</i>								
NAMR OF THE LECTURER <i>M. SARASWATHI</i>					CLASS : <i>BSc MPC-I Semester : I</i>				Paper : <i>Chemistry-I</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>non-volatile solute using elevation in bp and depression in F.P. Abnormal colligative properties</i>	-	-	-	-	-	-	-	-	-	-
			<i>Vant Hoff factor.</i>	-	-	-	-	-	-	-	-	-	-
	<i>3rd</i>	<i>05</i>	<i>solid state, symmetry in crystals</i>	-	-	-	-	-	-	-	-	-	-
			<i>Law of constancy of interfacial angles</i>	-	-	-	-	-	-	-	-	-	-
			<i>The law of rational indices, the law of symmetry, Miller indices, lattice point, space lattice</i>	-	-	-	-	-	-	-	-	-	-
			<i>&amp; Crystal systems</i>	-	-	-	-	-	-	-	-	-	-
			<i>X-ray diffraction and crystal studies.</i>	-	-	-	-	-	-	-	-	-	-

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*M. Saraswathi*

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ANNUAL CURRICULAR					PLAN (Year) <i>Inorganic &amp; physical chemistry</i>							
NAMR OF THE LECTURER <i>M. SARASWATHI</i>					CLASS : <i>IB.Sc MPC-I</i> Semester : <i>I</i>				Paper : <i>Chemistry-I</i>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
<i>May</i>	<i>4th</i>	<i>05</i>	<i>powder method, Bragg's law, defects in crystals, stoichiometric &amp; non-stoichiometric defects</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
				<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
				<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
				<i>-</i>	<i>Remedial classes</i>	<i>03</i>	<i>Yes</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>

Signature of the Lecturer

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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 <u>V. RAJA RAJESWARI</u>					CLASS : <u>II BSc</u>				Semester : <u>III</u>		Paper : <u>III</u>		<u>Inorganic &amp; 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		
Dec	1	4	Introduction chemistry of d block elements - Electronic configuration.	Definition of d-block elements.	-	-	-	-	-	-	-	-	-	
	2	4	variable valence magnetic properties catalytic properties complex formation	-	-	-	-	-	-	-	-	-	-	
	3	2	stability of various oxidation states Theories of bonding in metals. - Properties	-	-	-	-	-	-	-	-	-	-	
Jan	1	3	VBT, Free electron theory, Band theory, Conductors, semi conductor, Insulators	Characteristics of metals	-	-	-	-	-	-	-	-	-	
	2	2	Metal carbonyls: EAN rule, classification, structures & shape of metal carbonyls of V, Cr, Mn, Fe, Co & Ni.	Definition of metal carbonyls with examples	-	-	-	-	Debate	1	yes	-	-	
	3	3	Co & Ni f-block elements Lanthanides - Electronic configuration	Definition of f-block elements	-	-	-	-	-	-	-	-	-	

V.R. Raj  
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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 <u>V. RAJA RAJESWARI</u>					CLASS : <u>II BSC</u>	Semester : <u>III</u>	Paper : <u>III Inorganic &amp; 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	
	4	2	Oxidation states, Lanthanide contraction, consequences, magnetic properties, Actinides	-	-	-	-	-	-	-	-	-	-
Feb	1	4	Separation of Lanthanides Halogen compounds Nomenclature, classification, S <sub>N</sub> 1 & S <sub>N</sub> 2 reaction mechanism	Definition of Halogen compounds with examples.	-	-	-	-	Seminar	1	Yes	-	-
	2	4	Hydroxy compounds Nomenclature classification, preparation of alcohols, phenols	Definition of Hydroxy compounds with examples.	-	-	-	-	-	-	-	-	-
	3	2	Physical & chemical properties, named reactions	-	-	-	-	-	Seminar	1	Yes	-	-
	4	5	Active methylene compounds; Aceto acetic ester & malonic ester	Definition of active methylene compounds.	-	-	-	-	Quiz	1	Yes	-	-
Mar	1	3	Carbonyl compounds Preparation, properties, addition reaction	-	-	-	-	-	-	-	-	-	-

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**CURRICULUM LECTURER WISE 2019 - 2020**

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>V. RATA RATESWARI</u>					CLASS : <u>II BSC</u>		Semester : <u>III</u>		Paper : <u>III Inorganic &amp; Organic Chemistry</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
Mar	2	4	Named reactions - base catalysed oxidation reduction reactions.	-	-	-	-	-	-	-	-	-	-
	3	3	Analysis of aldehydes and ketones. <u>Carboxylic acids nomenclature</u>	Definition and types of	-	-	-	-	-	-	-	-	-
	4	5	Preparations, physical and chemical properties.	Carboxylic acids	-	-	-	-	-	-	-	-	-
Apr	1	4	Degradation of carboxylic acids, decarboxylation, Arndt-Eistert synthesis, <del>Hofmann</del> reaction.	Explanation of acid derivatives like amides, acid chlorides, Anhydrides etc.	-	-	-	-	-	-	-	-	-

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

ANNUAL CURRICULAR					2BBS 174 PLAN (Year)				Inorganic, Organic & Physical Chemistry				
NAMR OF THE LECTURER : B. Tulasi Koteswaribai					CLASS : TU BSc MPC1, MPC2 Semester : V				Paper : CHEMISTRY -VA				
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	3rd	03	Syllabus, Introduction - Types of chemical bonds, Definitions of Terms	Covalent, Ionic and Co-ordinate Covalent bonds	-	-	-	-	-	-	-	-	-
			in Co-ordination Compounds, Double salts & Co-ordination compounds	Definitions of Terms in Co-ordination chemistry	-	-	-	-	-	-	-	-	-
			Nomenclature of Co-ordination Compounds.	-	-	-	-	-	-	-	-	-	-
	4th	04	Werner's Theory, Sidwick's Theory, Valence Bond Theory, Examples	-	-	-	-	-	-	-	-	-	-
			Limitations Crystal Field Theory, Structural Isomerism, Stereo Isomerism.	-	-	-	-	-	-	-	-	-	-
Dec	3rd	06	Spectral and magnetic properties of metal complexes.	-	ppt will be shown	-	-	-	-	-	-	-	-

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

ANNUAL CURRICULAR					PLAN (Year)				Inorganic, Organic & physical chemistry				
NAMR OF THE LECTURER : B.Tulasi Kotewari bai					CLASS : BSC MPC1 MPC2 Semester : V				Paper : CHEMISTRY -VA				
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	
			Electronic absorption spectra of $[Ti(H_2O)_6]^{3+}$ complex. Gouy magnetic	Spectrochemical Series	-	-	-	-	-	-	-	-	-
			Balance, stability of metal complexes, factors affecting stability	-	Ppt will be shown	-	-	-	-	-	-	-	-
			Kinetic stability, Thermo dynamic stability, Job's method, rate-ratio method.	-	-	-	-	-	-	-	-	-	-
			Preparation of Nitro hydro Carbons, Chemical reactions - Halogenation, with	-	-	-	-	-	-	-	-	-	-
			HONO, Nef, Mannich, Michael and reduction reactions of N.itro alkanes.	-	-	-	-	-	-	-	-	-	-
Dec	4 <sup>th</sup>	05	Imid Exams - 04 hours.	-	Remedial class	01	Yes	-	-	-	-	-	-

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

ANNUAL CURRICULAR					PLAN (Year)				Inorganic, Organic & physical chemistry				
NAMR OF THE LECTURER : B.Tulasi Kotewani bai					CLASS : BSc MPEI, MPEI Semester : IV				Paper : Chemistry-VA				
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	3 <sup>rd</sup>	04	Aliphatic amines- Nomenclature, Classification, preparation methods	—	—	—	—	—	—	—	—	—	—
			Separation, phase-Transfer Catalyst, chemical properties,	—	ppt will be shown.	—	—	—	—	—	—	—	—
			Aromatic amines, Nomenclature, classification, preparation methods	—	—	—	—	—	—	—	—	—	—
	4 <sup>th</sup>	02	Comparative Basic Strengths of Aromatic amines, steric and substituent effects	—	—	—	—	—	—	—	—	—	—
			chemical reactions of aromatic amines involving both amino group and	—	—	—	—	—	—	—	—	—	—
			Benzene nucleus	—	—	—	—	—	—	—	—	—	—

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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: B. Tulani Koteswari Bai					CLASS: III BSc MPC & MPS Semester: V				Paper: VA - 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	
Feb	1st	06	Comparative Basic Strengths of Aliphatic amines	—	—	—	—	—	—	—	—	—	—
			Thermodynamics - Definition, applications, First-law different state -	Definitions of Terms used in Thermodynamics.	Youtube Videos will be shown	—	—	—	—	—	—	—	—
			ments, mathematical expression Work and Heat are path functions	—	—	—	—	—	—	—	—	—	—
			E as a state function, Entropy Heat capacity Def, Def of Cp & Cv, Relation Cp - Cv = R	—	ppt will be shown	—	—	—	—	—	—	—	—
			Joule-Thomson effect.	—	—	—	—	—	—	—	—	—	—
	2nd	06	Joule-Thomson Coefficient	—	—	—	—	—	—	—	—	—	—

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

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAMR OF THE LECTURER : B. Tulani Kotawani bai					CLASS : <u>U.B.E MPC/MPG</u> Semester : <u>V</u>				Paper : <u>Chemistry-VA</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
			Work done in Isothermal Reversible Expansion, Adiabatic Relations	—	Youtube video will be shown.	—	—	—	—	—	—	—
			$PV^\gamma = \text{constant}$ , $TV^{\gamma-1} = \text{constant}$ , Work done in Adiabatic reversible	—	—	—	—	—	—	—	—	—
			Expansion equation, Kirchhoff's Limitations of First Law, Spontaneous process, Statements	—	—	—	—	—	—	—	—	—
			of second law, Carnot cycle, its efficiency, Carnot's Theorem,	—	Ppt will be shown.	—	—	—	—	—	—	—
			Entropy - Concept of entropy, Entropy as a state function	—	—	—	—	—	—	—	—	—
			Entropy changes in Reversible (equilibrium) & Irreversible (spontaneous) process.	Gibbs Helmholtz equation	—	—	—	—	—	—	—	—

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SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2020- 2021

ANNUAL CURRICULAR					PLAN (Year) Inorganic, Organic and physical chemistry								
NAMR OF THE LECTURER : B. Tulani kotewaribai					CLASS : III BSC MPC1 & MPC2 Semester : V				Paper : Chemistry -VA				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
Feb	3rd	05	-	-	Remedial classes	02	Yes	-	-	-	-	-	-
-	-	-	-	-	Quiz	01	Yes	-	-	-	-	-	-
-	-	-	-	-	Seminar	01	Yes	-	-	-	-	-	-
-	-	-	-	-	Debate	01	Yes	-	-	-	-	-	-
-	4th	06	-	-	Remedial classes	05	Yes	-	-	-	-	-	-
-	-	-	-	-	Group Discussion	01	Yes	-	-	-	-	-	-
Mar	1st	03	-	-	II mid Exams.	-	-	-	-	-	-	-	-
-	2nd	-	-	-	practical Exams	-	-	-	-	-	-	-	-

Signature of the Lecturer *B. Tulani*

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

ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER: <u>K. SUJATHA</u>					CLASS: <u>III B-SC</u>				Semester: <u>V</u>				Paper: <u>Inorganic, organic and physical chemistry VCB</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				
Nov	3 <sup>rd</sup>	3hrs	Labile & inert complexes, substitution reactions, Trans effect and its applications	-	-	-	-	-	-	-	-	-	-			
			Biological significance of elements	-	Seminar	01	Yes	-	-	-	-	-	-			
			Structure and functions of chlorophyll and Haemoglobin	Applications and sources of elements	-	-	-	-	-	-	-	-	-			
Dec	3 <sup>rd</sup>	4	Structure and aromaticity of five membered heterocyclic compounds	-	-	-	-	-	-	-	-	-	-			

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

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <b>K. SUJATHA</b>					CLASS: <b>III B.Sc</b>			Semester: <b>D</b>		Inorganic, Organic & Physical Chemistry Paper: <b>D (CB)</b>			
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	
			electrophilic substitution reactions of five membered	-	-	-	-	-	-	-	-	-	-
			heterocyclic compounds, Acidic nature of pyrrole	-	-	-	-	-	-	-	-	-	-
			basic nature of pyridine, Paul Knorr synthesis	-	-	Remedial class	01	Yes	-	-	-	-	-
	4 <sup>th</sup>	4hrs	preparation methods of glucose and fructose, structural	-	-	-	-	-	-	-	-	-	-
			classification of glucose & fructose chemical reactions	-	-	-	-	-	-	-	-	-	-
			of glucose & fructose Inter conversion - I MID exam	-	-	-	-	-	-	-	-	-	-
			uses of glucose and fructose	-	-	-	-	-	-	-	-	-	-

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

ANNUAL CURRICULAR					PLAN (Year)									
NAME OF THE LECTURER: K. SOJATHA					CLASS: III BSC				Semester: I		Paper: IV (A)		Inorganic, organic & 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		
Jan	3 <sup>rd</sup>	4	classification of amino acids, synthesis of	Applications of amino acids	-	-	-	-	-	-	-	-	-	
			$\alpha$ -amino acids, chemical reactions of $\alpha$ -amino acids	-	-	-	-	-	-	-	-	-	-	
			peptides & proteins											
	4 <sup>th</sup>	4	order and molecularity, zero order reactions, second order reactions											
Feb	1 <sup>st</sup>	3h	zero order and third order reactions, effect											

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**CURRICULUM LECTURER WISE 20 - 202**

ANNUAL CURRICULAR					PLAN (Year)												
NAME OF THE LECTURER					CLASS :	Semester :	Paper :			CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date					
			of temperature on reaction rate & Arrhenius equation	-	-	-	-	-	-	-	-	-					
Feb	2 <sup>nd</sup>	4	Methods for determination of order of a reaction	-	-	-	-	-	-	-	-	-					
			thermal and photochemical processes	-	-	-	-	-	-	-	-	-					
	3 <sup>rd</sup>	4	Jablonski diagram, photochemical combination of I <sub>2</sub> and HBr	-	-	-	-	-	-	-	-	-					
				-	Quiz	01	Yes	-	-	-	-	-					

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CURRICULUM LECTURER WISE 20 - 202

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>K. SUJATHA</u>					CLASS: <u>III B.Sc</u>		Semester: <u>V</u>		Inorganic, organic and physical Chemistry Paper: <u>V (CB)</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 <sup>th</sup>	4	photo physical and photo chemical phenomenon	—	—	—	—	—	—	—	—	—	—
			Quantum yield and its experimental determination	Remedial class	01	Yes	—	—	—	—	—	—	—
			Luminescence and chemi luminescence	—	—	—	—	—	—	—	—	—	—

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