

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

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER : P. Lakshmi Tulasi					CLASS : I BSc MPC <sub>2</sub> +ZFC			Semester : II		Paper : organic and 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	
June	1st	5h	Unit-I- Precipitation of basis of organic chemistry	Introduction to organic chemistry	-	-	-	-	-	-	-	-	-
			General methods of preparation of	-	-	-	-	-	-	-	-	-	-
			alkanes, wurtz, wurtz fitz fitting, Corey-	-	-	-	-	-	-	-	-	-	-
			House synthesis, Physical & chemical	-	-	-	-	-	-	-	-	-	-
			Properties of alkanes Isomerism & its effect on properties,	-	-	-	-	-	-	-	-	-	-
			Free radical substitutions - Halogenation & reactivity vs	-	Remedial class	01	yes	-	-	-	-	-	-

P. Lakshmi Tulasi  
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**CURRICULUM LECTURER WISE 2019 - 2020**

ANNUAL CURRICULAR					PLAN (Year)											
NAMR OF THE LECTURER <i>R. Lakshmi Tulas</i>					CLASS : <i>BSc MPC2 + ZFC</i>				Semester : <i>II</i>				Paper : <i>Organic and General Chemistry</i>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY							
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date				
			<i>selectivity.</i>	-	-	-	-	-	-	-	-	-	-			
<i>June</i>	<i>2nd</i>	<i>5</i>	<i>conformational analysis of alkanes</i>	-	-	-	-	-	-	-	-	-	-			
			<i>Bayer's strain theory. cyclo hexane</i>	<i>Newmann Projection formula.</i>	-	-	-	-	-	-	-	-	-			
			<i>conformation cycles hexane conformation</i>	-	-	-	-	-	-	-	-	-	-			
			<i>ns with energy diagram. conformation</i>	-	<i>Remedial class</i>	<i>01</i>	<i>Yes</i>	-	-	-	-	-	-			
			<i>of mono substituted cyclo hexane.</i>	-	-	-	-	-	-	-	-	-	-			

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**CURRICULUM LECTURER WISE 2019 - 2020**

ANNUAL CURRICULAR					PLAN (Year)									
NAMR OF THE LECTURER <u>R. Lakshmi Tulas</u>					CLASS : <u>I BSc MPCSTZFC</u> Semester : <u>II</u>				Paper : <u>organic and general chemistry</u>					
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY					
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date		
June	3rd	5h	Unit - II : carbon-carbon pi bonds (Alkenes & Alkynes) General methods of preparation, physical & chemical properties. Mechanism of E <sub>1</sub> , E <sub>2</sub> and E <sub>1cB</sub> reactions, Saytzeff & Hoffmann eliminations. Electrophilic addition. Markovnikoff/Anti-Markovnikoff	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	will be shown E <sub>1</sub> , E <sub>2</sub> (PPT)	01	Yes	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-

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Signature of the Lecturer

B. Anu  
Signature of the HOD

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

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAMR OF THE LECTURER <i>R. Lakshmi Talasi</i>					CLASS : <i>I BSc MPC + ZFC</i> Semester : <i>II</i>				Paper : <i>organic and General Chemistry</i>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			<i>Konnikoff's add<sup>n</sup> with suitable mech-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>anism. syn &amp; anti addition, addition of H<sub>2</sub>, X<sub>2</sub>, HX, oxymercuration, demer-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>curation.</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>June</i>	<i>4th</i>	<i>5th</i>	<i>Hydroboration-oxidation, ozonolysis, hydroxylation, Diels Alder rea<sup>n</sup>. L2 &amp; L4</i>	<i>-</i>	<i>Remedial</i>	<i>01</i>	<i>Yes</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>

*R. Lakshmi Talasi*  
Signature of the Lecturer

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Signature of the HOD

*[Signature]*  
Signature of the Principal



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

ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER <u>R. Lakshmi Tulas</u>					CLASS : <u>IBSc MPC + ZFC</u> Semester : <u>II</u>				Paper : <u>organic and General chemistry</u>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
			Addition in conjugated diene, General	-	seminar	01	Yes	-		-	-	-
			methods of preparation of alkynes, red	-	-	-	-	-		-	-	-
			of alkynes, acidity electrophilic and	-	-	-	-	-		-	-	-
			nucleophilic add <sup>n</sup> s Hydration of alkynes	-	Remedial	01	Yes	-		-	-	-
			to form carbonyl compounds, Alkylation	-	-	-	-	-		-	-	-
			of terminal alkynes	-	-	-	-	-		-	-	-

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

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: R. Lakshmi Tulasi					CLASS: I BSc HPS + ZR Semester: II				Paper: Organic and 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	
July	1st	5h	Unit-III: Benzene & its reactivity, concept of aromaticity, Huckel's rule-applications of benzoid and non-benzoid compounds. Reactions. General mechanism of aromatic electrophilic substitutions.	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	Remedial	01	Yes	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

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B. ...  
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**CURRICULUM LECTURER WISE 2019 - 2020**

ANNUAL CURRICULAR					PLAN (Year)				organic and General chemistry			
NAMR OF THE LECTURER <u>R. Lakshmi Tulasi</u>					CLASS : <u>IBSc MGS + ZFC</u>		Semester : <u>II</u>		Paper :			
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	2nd	5h	Mechanism of nitration, Friedel craft	-	Debate	01	Yes	-	-	-	-	-
			S alkylation and acylation and	-	-	-	-	-	-	-	-	-
			alkylation.	-	-	-	-	-	-	-	-	-
	3rd	5h	orientation of aromatic substituti	-	-	-	-	-	-	-	-	-
			on - ortho, meta and Para directing groups, Ring activating & deactiva	-	Remedial	01	Yes	-	-	-	-	-
				-	-	-	-	-	-	-	-	-

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[Signature]  
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**CURRICULUM LECTURER WISE 2019 - 2020**

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>R. Lakshmi Tulasi</i>					CLASS : <i>I BSc UPG + ZFC</i> Semester : <i>II</i>				Paper : <i>Organic and General Chemistry</i>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			ling groups with examples (electron	-	-	-	-	-	-	-	-	-	-
			ic interpretation of various groups	-	-	-	-	-	-	-	-	-	-
<i>July</i>	<i>4th</i>	<i>04</i>	like $\text{NO}_2$ & phenolic orientation of amino	-	<i>Remedial class</i>	<i>01</i>	<i>Yes</i>	-	-	-	-	-	-
			methoxy & methyl groups, carbonyl	-	-	-	-	-	-	-	-	-	-
			nitro, nitrite, carbonyl & sulphonic	-	<i>will be shown Nitro, Nitrite, carbonyl (PPT)</i>	<i>01</i>	<i>Yes</i>	-	-	-	-	-	-
			acid groups. Halogenation (explanation)	-	-	-	-	-	-	-	-	-	-

*R. Lakshmi Tulasi*  
Signature of the Lecturer

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Signature of the HOD

*[Signature]*  
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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>R. Lakshmi Devi</u>					CLASS : <u>I BSc APC<sub>2</sub> + ZFc</u>			Semester : <u>II</u>		Paper : <u>Organic and General Chemistry</u>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			by taking minimum of one example from each type).	-	-	-	-	-	-	-	-	-	-
Aug	1st	5 <sup>th</sup> h	1. <u>surface chemistry</u> colloids, coagulation	-	Quiz	1	Yes	-	-	-	-	-	-
			of colloids, Hardy-schulze rule, stability of colloids,	-	Hardy-schulze rule show in PPT	01	Yes	-	-	-	-	-	-
			protection of colloids	-	-	-	-	-	-	-	-	-	-
			Gold number. <u>Adsorption</u> : Physical	-	-	-	-	-	-	-	-	-	-

R. Lakshmi Devi  
Signature of the Lecturer

B. S. R.  
Signature of the HOD

[Signature]  
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**CURRICULUM LECTURER WISE 2019 - 2020**

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>R. Lakshmi Tibasi</i>					CLASS : <i>1 BSc MPCs + 2 PC</i> Semester : <i>II</i>				Paper : <i>Organic and General Chemistry</i>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			<i>6. chemical adsorption, coagulation, adsorption Isotherm. Applications of adsorption</i>	-	-	-	-	-	-	-	-	-	-
<i>Aug</i>	<i>2nd</i>	<i>5h</i>	<i>2. chemical bonds:- v.B theory, hybridisation, VB theory as applied to <math>CF_3</math></i>	<i>Types of hybridisation</i>	-	-	-	-	-	-	-	-	-
			<i><math>Ni(CO)_4</math>, MO theory. LCAO method, construction of MO diagram for homo</i>	-	-	-	-	-	-	-	-	-	-
				-	<i>Remedial class</i>	<i>01</i>	<i>Yes</i>	-	-	-	-	-	-

*R. Lakshmi Tibasi*  
Signature of the Lecturer

*B. O.*  
Signature of the HOD

*[Signature]*  
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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 <u>R. Lakshmi Tuboi</u>					CLASS : <u>I BSc MPC<sub>2</sub> + ZFC</u> Semester : <u>II</u>				Paper : <u>Organic and General chemistry</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			and hetero nucle or diagram &	-	-	-	-	-	-	-	-	-	-
			atomic molecules of (N <sub>2</sub> , O <sub>2</sub> , CO and NO)	-	-	-	-	-	-	-	-	-	-
AUG	3 <sup>rd</sup>	5h	3- HSAB:- Pearson's concept, HSAB	-	Group Discussion	01	yes	-	-	-	-	-	-
			Principle & its importance, Send-	-	-	-	-	-	-	-	-	-	-
			ing in Hard-Hard and soft-soft combinations.	-	Remedial class	01	yes	-	-	-	-	-	-
			unit-V:- Stereo chemistry of carb on	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR PLAN (Year)					organic and General chemistry								
NAME OF THE LECTURER R. Lakshmi Tilasi					CLASS: I BSc HPS 2FC Semester: II				Paper :				
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 - Molecular representations.	-	-	-	-	-	-	-	-	-	-
			wedge, fischer, Newmann & Saw-Horse formula.	-	Remedial class	01	Yes	-	-	-	-	-	-
			optical isomerism, optical activity - wave nature of light, plane polarised light, specific rotation.	-	-	-	-	-	-	-	-	-	-
			chiral molecules, Def & criteria (symmetric elts)	-	will be shown chiral molecules (PPT)	01	Yes	-	-	-	-	-	-
Aug	4th	5h	Definition of enantiomers & diastereomers	-	-	-	-	-	-	-	-	-	-

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**CURRICULUM LECTURER WISE 2021 - 2022**

ANNUAL CURRICULAR					PLAN (Year)									
NAMR OF THE LECTURER <i>R. lakshmi Tulas;</i>					CLASS : <i>I BSc MPC, + ZFC</i>				Semester : <i>II</i>		Paper : <i>organic and General Chemistry</i>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY					
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date		
			<i>explanation of optical isomerism with examples.</i>	-	-	-	-	-	-	-	-	-	-	
			<i>Glycerol, ethylene glycol, lactic acid, Ab</i>	-	-	-	-	-	-	-	-	-	-	
			<i>malic acid, Tartaric acid, 2-3-dibromo</i>	-	-	-	-	-	-	-	-	-	-	
			<i>Remedial class</i>	-	01	Yes	-	-	-	-	-	-	-	
			<i>Pentane, D, L, E, P, S, E, G, Z-confi</i>	-	-	-	-	-	-	-	-	-	-	
<i>sep</i>	<i>pt</i>	<i>02</i>	<i>quation with ex Def. of Racemic mixture Resolution of Racemic mixture.</i>	-	-	-	-	-	-	-	-	-	-	
			<i>on of Racemic mixture.</i>	-	-	-	-	-	-	-	-	-	-	

Signature of the Lecturer *R. lakshmi Tulas;*

Signature of the HOD *B. D.*

Signature of the Principal *[Signature]*



SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM PLAN- LECTURER WISE 20-21-2022

ANNUAL CURRICULAR					PLAN (Year) Inorganic, Organic & Physical Chemistry								
NAME OF THE LECTURER: K. SUJATHA.					CLASS: II MSc + CBZ			Semester: IV		Paper: IV-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	
May	1st	4	Introduction to carbohydrates, classification, preparation, structure of glucose	-	-	-	-	-	-	-	-	-	-
			Biological importance	-	-	-	-	-	-	-	-	-	-
	2nd	4	epimers, anomers, mutarotation, Haworth projection and conformational structure of fructose	-	-	-	-	-	-	-	-	-	-
			inter conversions, Kiliani-Fischer synthesis, Ruff degradation of saccharides and	-	-	-	-	-	-	-	-	-	-
			elementary treatment of poly. saccharides	-	-	-	-	-	-	-	-	-	-
					Remedial class	01	Yes	-	-	-	-	-	-
	3rd	4	Unit 3: Hetero cyclic compounds	-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer

K. Sujatha

Signature of the HOD

B. Anu

Signature of the Principal

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CURRICULUM PLAN- LECTURER WISE 2021-2022

ANNUAL CURRICULAR					PLAN (Year) Inorganic, organic & physical chemistry									
NAME OF THE LECTURER: K. SUTATHA					CLASS: II CBZ + MCE				Semester: IV		Paper: IV-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		
			structure and aromaticity of pyrrole, Furan, thiophene, preparation from 1,4-dicarbonyl	—	—	—	—	—	—	—	—	—	—	
			Compounds, paul-Knowr syntheses properties, Acidic character, Halogenation, Nitration & Sulphonation	—	—	—	—	—	—	Seminar	01	yes	—	
			pyridine - Basicity, Aromaticity, nucleophilic substitution reactions	—	—	—	—	—	—	—	—	—	—	
May	4th	3	classification of amino acids methods for the preparation of amino acids	—	—	—	—	—	—	—	—	—	—	
					remedial class	—	—	—	—	—	—	—	—	

Signature of the Lecturer K. Sutatha

Signature of the HOD B. An

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ANNUAL CURRICULAR					PLAN (Year) Inorganic, organic & physical chemistry								
NAME OF THE LECTURER: K. SUJATHA					CLASS: II CBZ + MCB		Semester: IV		Paper: IV - 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	
			Zwitter ion structure, salt like character,	-	-	-	-						
			amphoteric character, Isoelectric point,	-	-	-	-						
			chemical properties (octams, structure & nomenclature of peptides & proteins	-	-	-	-						
								will be shown PPT C proteins	01	yes			
June	3 <sup>rd</sup>	4	Unit - I: Def and classification of organo metallic compounds on the basis of bond type hapticity, metal carbonyls 18-electron rule, electron count of mono, poly & sub metal carbonyls preparation	-	-	-	-						
				-	-	-	-						
				-	-	-	-	Quiz	01	yes			
				-	-	-	-						

Signature of the Lecturer *K. Sujatha*

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Signature of the HOD

*[Signature]*  
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**CURRICULUM PLAN- LECTURER WISE 2021-2022**

ANNUAL CURRICULAR					PLAN (Year) <i>Inorganic, organic &amp; physical chemistry.</i>								
NAME OF THE LECTURER: <i>K-SOJATHA</i>					CLASS: <i>BCBA MCE</i>		Semester: <i>IV</i>		Paper: <i>IV-A</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>methods of mono and binuclear</i>	—	—	—	—	—	—	—	—	—	—
<i>June</i>	<i>4th</i>	<i>4</i>	<i>Carbonyls of 3d-series, pi-acceptor behaviour of carbon monoxide, synergic effects (VB-approach) MO diagram</i>	—	—	—	—	—	—	—	—	—	—
<i>July</i>	<i>1st</i>	<i>4</i>	<i>Difference between thermophotocatal reactions</i>	—	—	—	—	—	—	—	—	—	—
			<i>unit of preparation methods of Nitro hydrocarbons, Aliphatic and aromatic amines, Nef reaction, Mannich reaction, Michael addition and reduction, Hirsberg separation of amines</i>	—	—	—	—	—	—	—	—	—	—
			<i>unit of preparation methods of Nitro hydrocarbons, Aliphatic and aromatic amines, Nef reaction, Mannich reaction, Michael addition and reduction, Hirsberg separation of amines</i>	—	—	—	—	—	—	<i>will be shown ppt</i>	<i>01</i>	<i>Yes</i>	—
			<i>unit of preparation methods of Nitro hydrocarbons, Aliphatic and aromatic amines, Nef reaction, Mannich reaction, Michael addition and reduction, Hirsberg separation of amines</i>	—	—	—	—	—	—	—	—	—	—

Signature of the Lecturer *k.sujatha*

Signature of the HOD *B.A.*

Signature of the Principal *[Signature]*



**SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM PLAN- LECTURER WISE 20-21-22**

ANNUAL CURRICULAR					PLAN (Year) Inorganic, organic & physical chemistry								
NAME OF THE LECTURER : K. SUJATHA					CLASS : IICBZ+MCU		Semester : IV		Paper : IV-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	
July	2 <sup>nd</sup>	4	IMID examinations	—	—	—	—	—	—	—	—	—	—
	3 <sup>rd</sup>	4	chemical properties of aliphatic and aromatic amines, Reaction with HONO,	—	Remedial class	01	yes	—	—	—	—	—	—
			Diazonium coupling Gabriel phthalimide synthesis, Hoffmann exhaustive methylation, Cope elimination	—	—	—	—	—	—	—	—	—	—
	4 <sup>th</sup>	4	preparation and synthetic applications of diazonium salts, Diazonium coupling	—	—	—	—	—	—	Group Discussion	01	yes	—

Signature of the Lecturer *K. Sujatha*

*B. On*  
Signature of the HOD

*B. Sujitha*  
Signature of the Principal



SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM PLAN- LECTURER WISE 2021-22

ANNUAL CURRICULAR					PLAN (Year) Inorganic, organic &								
NAME OF THE LECTURER: K. SUJATHA					CLASS: IICBZ HCS		Semester: IV		Paper: IV-A 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	
Aug	1 <sup>st</sup>	4	unit-5: photochemistry.	—	—	—	—	—	—	—	—	—	—
			Diffe between Thermo chemical and photo chemical processes,	—	—	—	—	—	will be shown PPT (Laws)	01	yes	—	—
			laws of photo chemistry	—	—	—	—	—	—	—	—	—	—
			Quantum yield and etc experimental determinations,	—	—	—	—	—	—	—	—	—	—
			examples of photo chemical combina-	—	—	—	—	—	—	—	—	—	—
			tions (H <sub>2</sub> & Cl <sub>2</sub> ) & (H <sub>2</sub> & Br <sub>2</sub> )	—	—	—	—	—	—	—	—	—	—
	2 <sup>nd</sup>	3	practical examina-tions	—	Remedial class	01	yes	—	—	—	—	—	—
			photosensitized reactions	—	—	—	—	—	—	—	—	—	—
Aug	3 <sup>rd</sup>	4	First law of Thermo dynamics, Heat	—	—	—	—	—	—	—	—	—	—

Signature of the Lecturer K. Sujatha

Signature of the HOD

B. An

Signature of the Principal



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**SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM PLAN- LECTURER WISE 2021-22**

ANNUAL CURRICULAR					PLAN (Year) Inorganic, organic & physical chemistry									
NAME OF THE LECTURER : K. SUJATHA					CLASS : II CBZ + MUG				Semester : IV		Paper : <del>IVA</del> 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		
			Heat capacities and their relationships	-	-	-	-	-	-	-	-	-	-	
			entropy, Second law of thermodynamics, Kirchhoff's equation, Carnot's cycle, enthalpy and heat contents	-	-	-	-	-	-	-	-	-	-	
			third law of thermodynamics, entropy changes in reversible and irreversible processes	-	Remedial class	01	Yes	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	

Signature of the Lecturer *K. Sujatha*

*B. On*  
Signature of the HOD

*K. Sujatha*  
Signature of the Principal



**SIR C.R. REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM PLAN- LECTURER WISE 2021-22**

ANNUAL CURRICULAR					PLAN (Year) <i>Inorganic, organic &amp; physical chemistry</i>							
NAME OF THE LECTURER : <i>K. Sujatha</i>					CLASS : <i>II BSc+Msc</i> Semester : <i>IV</i>				Paper : <i>IV - A</i>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
<i>Aug</i>	<i>4th</i>	<i>2</i>	<i>Pre-final examinations,</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Nernst heat theorem &amp; Gibbs</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
			<i>Helmholtz equations</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>

Signature of the Lecturer *K. Sujatha*

Signature of the HOD *B. An*

Signature of the Principal *[Signature]*



**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021 - 2022**

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: <u>V. RAJA RAJESWARI</u>					CLASS: <u>IIBSC</u>		Semester: <u>IV</u>		Paper: <u>IV B</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
May	1	4	Coordination chemistry - IUPAC nomenclature, structural and stereo isomerism with an example.	Definitions of terms used in coordination chemistry	-	-	-	-	-	-	-	-	-
	2	1	valence bond Theory upto limitations.	-	-	-	-	-	-	-	-	-	-
June	1	4	Crystal field Theory of octahedral & tetrahedral complex.	-	-	-	-	-	-	-	-	-	-
	2	4	CFSE - Factors affecting CFSE. Comparison Tetrahedral distortion.	-	-	-	-	-	-	-	-	-	-
	3	4	John-Teller distortion square planar coordination inorganic reaction mechanism - Introduction.	-	-	-	-	-	-	-	-	-	-
	4	4	concept of reaction path ways, transition state, Activated complex Labile & Inert complex	-	-	-	-	-	-	-	-	-	-

V-R-Raj  
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)								
NAME OF THE LECTURER: <b>V. RAJA RAJESWARI</b>					CLASS: <b>IBSC</b>		Semester: <b>IV</b>		Paper: <b>IV-B</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	
June	5	1	SN <sup>1</sup> & SN <sup>2</sup> reaction in square planar complexes.	-	-	-	-	-	-	-	-	-	-
July	1	2	Trans-effect, Theories of trans effect and its applications.	-	-	-	-	Quiz	1	Yes	-	-	
	2	4	stability of metal complexes - Thermodynamic & kinetic stability, factors affecting stability of complexes.	-	-	-	-	-	-	-	-	-	
	3	4	Job's method, mole ratio method.	-	-	-	-	-	-	-	-	-	
	4	4	Bioinorganic Chemistry - Metal ions in biological systems, classification of elements, biochemical effect, sodium/pump, carbonyl, peptide & Schiff base.	-	-	-	-	-	-	-	-	-	
	5	4	Haemoglobin & Myoglobin, phase-rule - Derivation, one component & Two-component system.	Explanation of phase diagram	-	-	-	Seminar	1	Yes	-		

**V.R. Raj**  
Signature of the Lecturer

**B. Anu**  
Signature of the HOD

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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>V-RAJA RAJESWARI</b>					CLASS: <b>II BSC</b>		Semester: <b>IV</b>		Paper: <b>IV B</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	
Aug	1	3	Electrochemistry - Def of conductance, effect of concentration. Kohlrausch law. Transport no by Hittorf method. Debye Huckel Theory. Type of electrodes. Det of E <sub>ref</sub> . Nerst equation. Potentiometric titration. Fuel cells.	Definitions of current, Resistance.	-	-	-	-	-	-	-	-	-
	2	4	Kinetics - reaction rates. Factors affecting Derivation of zero, first second order reaction.	Explanation of Ohm's law	-	-	-	-	Debate	1	Yes	-	-
	3	3	Methods of determination Theories of reaction rates. Enzyme catalysis. Factors, inhibitors. Michaelis-Menten equation.	-	-	-	-	-	Group Discussion	1	Yes	-	-
	4	2		-	-	-	-	-					

**V-Raja**  
Signature of the Lecturer

**B. An**  
Signature of the HOD

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Signature of the Principal



**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021 - 2022**

ANNUAL CURRICULAR					PLAN (Year)				ANALYTICAL METHODS IN CHEMISTRY				
NAME OF THE LECTURER: B. Tulani Koteswari Bai					CLASS: III BSc MPC, PCB Semester: VI				Paper: Chemistry Sketive				
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	3rd	4	unit-I Quantitative analysis: a) Importance in various fields of science, steps involved in chemical analysis, Principles of Volumetric analysis: Theories of acid-base titrations	—	—	—	—	—	—	—	—	—	—
			of Volumetric analysis: Theories of acid-base titrations	—	—	—	—	—	—	—	—	—	—
	4th	4	Complexometric titrations, iodometric and precipitation titrations- choice of indicators for these titrations	—	—	—	—	—	—	—	—	—	—
			b) Principles of gravimetric analysis.	—	—	—	—	—	—	—	—	—	—

Signature of the Lecturer: B. Tulani

Signature of the HOD: B. Tulani

Signature of the Principal: [Signature]

**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021 - 2022**

Analytical methods in chemistry  
 Paper : Chemistry Elective

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER <i>B. Tulani Koteswari Bai</i>					CLASS : <i>M BSc MPC&amp;CBZ Semester : VI</i>				CO-CURRICULAR ACTIVITY			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date
May	1st	4h	Precipitation, Co-precipitation, peptization, Co-precipitation, post-	—	—	—	—	—	—	—	—	—
			precipitation, digestion, filtration and washing of the precipitate,	—	—	—	—	—	—	—	—	—
			drying and ignition.	—	—	—	—	—	—	—	—	—
			<u>unit-II</u> Treatment of analytical data:	—	—	—	—	—	—	—	—	—
			Error definition, Types of errors.	—	—	—	—	—	—	—	—	—
	2nd	4h	Significant figures and its importance. Accuracy - Definition methods of expressing	Methods for determination of Accuracy	—	—	—	—	—	—	—	—
			accuracy, precision methods of expressing precision.	—	—	—	—	—	—	—	—	—

Signature of the Lecturer *B. Tulani*

Signature of the HOD *B. Tulani*

Signature of the Principal *[Signature]*



**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021 - 2022**

ANNUAL CURRICULAR					PLAN (Year) Analytical Methods in Chemistry								
NAME OF THE LECTURER B. Tulasi Kotawani Bai					CLASS: III BSc CBZ & MGS Semester: VI				Paper: Chemistry Elective				
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	4h	Error analysis and minimization of errors, standard deviation and confidence limit.	—	—	—	—	—	—	—	—	—	—
			unit-III	—	—	—	—	—	—	—	—	—	—
			Separation techniques in chemical analysis Six: Introduction and principle of	—	—	—	—	—	—	—	—	—	—
			Solvent extraction: Factors affecting solvent extraction.	✓	—	—	—	—	—	—	—	—	—
	4th	4h	Techniques - Batch extraction, Continuous extraction	—	—	—	—	—	—	—	—	—	—
			on and Counter-current extraction Process of solvent extraction.	—	—	—	—	—	—	—	—	—	—

Signature of the Lecturer B. Bai

Signature of the HOD B. Bai

Signature of the Principal

**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021- 2022**

Analytical methods in chemistry  
 Paper : Chemistry Elective

ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAME OF THE LECTURER					CLASS				Semester			
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
June	1st	4h	Application-Determination of Iron(III) Synergism.	-	-	-	-	-	-	-	-	-
			Ion exchange: Introduction, action of ion-exchange resin, separation of inorganic mixture applications.	-	-	-	-	-	-	-	-	-
	2nd	4h	unit-IV chromatography classification of chromatography methods, principles of differential migration adsorption phenomenon	-	-	-	-	-	-	-	-	-

Signature of the Lecturer B. Tulani Kotewani Bai

Signature of the HOD B. Tulani

Signature of the Principal [Signature]



**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021 - 2022**

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS				Paper				
B. Tulani Kasturani Bai					III BSc MPC PCB Semester: VI				Analytical methods in chemistry Chemistry Sleek				
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		Nature of adsorbents, solvent systems, Rf values, factors effecting Rf values.	—	Remedial - 01 class	01	Yes	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—
	3rd	4h.	Paper chromatography: Principles, Rf values, experimental procedures	—	PPT will be shown	—	—	—	—	—	—	—	—
			choice of paper and solvent systems developments of chromatogram - ascending, descending and radial.	—	—	—	—	—	—	—	—	—	—
			ascending, descending and radial.	—	Remedial - 01 class.	01	Yes	—	—	—	—	—	—
	4th	4h	Two dimensional chromatography - applications.	—	—	—	—	—	—	—	—	—	—

Signature of the Lecturer

B. Tulani

Signature of the HOD

B. Tulani

Signature of the Principal



**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021- 2022**

ANNUAL CURRICULAR					PLAN (Year) Analytical methods in Chemistry								
NAME OF THE LECTURER B. Tulani Kotewani Bai					CLASS : B.Sc MPC ECB2 Semester : VI				Paper : Chemistry Elective				
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-IV Thin layer chromatography (TLC) Advantages - principles, factors effecting R <sub>f</sub> values - Experimental procedures Adsorbents and Solvents - Preparation of plates - Development of Chromatogram.	-	Ppt presentation	-	-	-	-	-	-	-	-
			Detection of Spots - Applications of TLC	-	-	-	-	-	-	-	-	-	-
July 1st		4h	column chromatography: Principles experimental procedures - Stationary & mobile phases - Separation technique	-	Ppt presentation	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

Signature of the Lecturer *B. Tulani*

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**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021- 2022**

ANNUAL CURRICULAR					PLAN (Year)				Analytical methods in chemistry				
NAME OF THE LECTURER <i>B. Tulani kateswanibai</i>					CLASS : <i>III BSc MPC, PCB2 Semester : VI</i>				Paper : <i>chemistry skelire</i>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CO-CURRICULAR ACTIVITY				OO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
			<i>Applications of Column chromatography</i>	-	-	-	-	-	-	-	-	-	-
			<i>HPLC: Basic principles and applications</i>	<i>Instrumentation techniques of HPLC</i>	-	-	-	-	-	-	-	-	-
<i>July</i>	<i>2nd</i>	<i>4h</i>	-	-	<i>Mid Exams</i>	<i>03</i>	<i>Yes</i>	-	-	-	-	-	-
	<i>3rd</i>	<i>4h</i>	-	-	<i>Seminar</i>	<i>01</i>	<i>Yes</i>	-	-	-	-	-	-
			-	-	<i>Quiz, Debate</i>	<i>01</i>	<i>Yes</i>	-	-	-	-	-	-
			-	-	<i>Group Discussion</i>	<i>01</i>	<i>Yes</i>	-	-	-	-	-	-
			-	-	<i>Remedial</i>	<i>01</i>	<i>Yes</i>	-	-	-	-	-	-
	<i>4th</i>	<i>4h</i>	-	-	<i>Sem end Examinations</i>	-	-	-	-	-	-	-	-

Signature of the Lecturer

*B. Tulani*

Signature of the HOD

*B. Tulani*

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*[Signature]*

**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021 - 2022**

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <b>K. SUJATHA</b>					CLASS : <b>M.B.Sc cluster</b>			Semester : <b>VI</b>		Paper : <b>polymer chemistry cluster A1</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	
April	3 <sup>rd</sup>	2	Introduction to polymers: Basic definitions degree of polymerisation	—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—
	4 <sup>th</sup>	4	classification of polymers - natural and synthetic polymers, organic and inorganic	—	—	—	—	—	—	—	—	—	—
			thermo plastic and thermosetting polymers, plastic	—	—	—	—	—	—	—	—	—	—
			elastomers, fibres and resins, linear, branched and	—	—	—	—	—	—	—	—	—	—
			cross linked polymers addition polymers and condensation polymers	—	Remedial class	01	Yes	—	—	—	—	—	—

Signature of the Lecturer **K. Sujatha**

Signature of the HOD **B. An**

Signature of the Principal 





**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2024- 2022**

ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER <b>K. SOJATHA</b>					CLASS : <b>III B.Sc cluster</b>				Semester : <b>VI</b>				Paper : <b>cluster A1</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				
			mechanism of polymerization, Free radical	-	-	-	-	-	-	-	-	-	-			
			ionic and zeigler-natta polymerisation.	-	-	-	-	-	-	-	-	-	-			
May	1st	4	unit -II Techniques of polymerisation:	-	-	-	-	-	-	-	-	-	-			
			Bulk polymerisation, solution polymerisation	-	-	-	-	-	-	-	-	-	-			
			suspension polymerisation & emulsion polymerisation	-	-	-	-	-	-	-	-	-	-			
			polymerisation	-	-	-	-	-	-	-	-	-	-			

Signature of the Lecturer **K. Sujatha**

Signature of the HOD **B. Anu**

Signature of the Principal **[Signature]**

SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU  
CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER					CLASS				Semester				Paper			
K. SUTATHA					III BSc cluster				VI				polymer chemistry cluster 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				
May	2 <sup>nd</sup>	4	Molecular weights of polymers:	-	-	-	-	-	-	-	-	-	-			
			Number average and weight average	-	-	-	-	-	-	Quiz	01	yes	-			
			molecular weight determination of molecular weight	-	-	-	-	-	-	-	-	-	-			
			of polymers viscometry and osmometry	-	Remedial class	-	-	-	-	-	-	-	-			
June	3 <sup>rd</sup>	4	Kinetics of free radical polymerisation	-	-	-	-	-	-	-	-	-	-			
			glass transition temperature	-	-	-	-	-	-	-	-	-	-			

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ANNUAL CURRICULAR					PLAN (Year)				CO-CURRICULAR ACTIVITY			
NAMR OF THE LECTURER <b>K. SUJATHA</b>					CLASS : <b>III BSc chem</b>		Semester : <b>VI</b>		Paper : <b>elective A1</b>			
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
			Determination of glass transition	-	-	-	-	-	-	-	-	-
			temperature Free volume theory, WLF equation, factors effecting glass transition	-	-	-	-	-	-	-	-	-
			unit of <u>polymer additives</u>	-	-	-	-	-	seminar	01	yes	-
July	1st	4	Introduction to polymer additives, fillers, plasticizers	-	-	-	-	-	-	-	-	-
			and softeners lubricants and flow	-	Remedial class	01	yes	-	-	-	-	-

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS : III B.Sc (cluster) Semester : VI				Paper : polymer chemistry, chemistry cluster 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	
			promoters, Anti oxidizer additives, Flame retardants, colourants,	-	-	-	-	-	-	-	-	-	-
July 2nd	4		Blowing agents cross linking agents, photo	-	Remedial class	01	yes	-	-	-	-	-	-
			stabilizers, nucleating agents	-	-	-	-	-	-	-	-	-	-
			polymerization, polymers and their applications	-	-	-	-	-	-	-	-	-	-
			preparation and industrial application of.	-	-	-	-	-	-	-	-	-	-

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**CURRICULUM LECTURER WISE 2021- 2022**

ANNUAL CURRICULAR					PLAN (Year)									
NAMR OF THE LECTURER <b>K.SUJATHA</b>					CLASS : <b>III Bsc cluster</b>				Semester : <b>VI</b>		Paper : <b>cluster A1</b>		<div style="text-align: right; font-size: small;"> <i>Polymer chemistry</i> </div>	
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		
			<b>poly ethylene</b>	—	—	—	—	—	—	—	—	—	—	
	3 <sup>rd</sup>	4	<b>poly vinyl chloride, Teflon, Terelene</b>	—	—	—	—	—	—	<b>Group discussion</b>	01	yes	—	
			<b>poly acrylonitrile, Nylon 6,6 and silicones.</b>	—	—	—	—	—	—	—	—	—	—	
				—	—	—	—	—	—	—	—	—	—	
				—	—	—	—	—	—	—	—	—	—	

Signature of the Lecturer

*K. Sujatha*

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*B. An*

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*[Signature]*

**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021 - 2022**

ANNUAL CURRICULAR					PLAN (Year) Instrumental methods of analysis.									
NAMR OF THE LECTURER S.R. Tejaswi					CLASS : III BSc cluster				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		
April	3 <sup>rd</sup>	3hrs	Introduction to spectroscopic methods of analysis - treatment of analytical data.	-	-	-	-	-	-	-	-	-	-	
			error analysis, classification of analytical methods.	-	-	-	-	-	-	-	-	-	-	
	4 <sup>th</sup>	4hrs	Types of Instrumental methods consideration of EMR.	-	-	-	-	Seminar	01	Yes	-	-	-	
			IR-spectroscopy- Absorption & scattering	-	-	-	-	-	-	-	-	-	-	
May	1 <sup>st</sup>	4hrs	light sources, separation of spectrum. detection of signals.	-	Remedial class	01	Yes	-	-	-	-	-	-	
			Interpretation of spectrum.	-	-	-	-	-	-	-	-	-	-	

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S.R. Tejaswi

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**SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU**  
**CURRICULUM LECTURER WISE 2021 - 2022**

ANNUAL CURRICULAR					PLAN (Year) Instrumental methods of Analysis							
NAME OF THE LECTURER S.R. Tejaswi					CLASS : III B.Sc cluster			Semester : VI		Paper : VIII - 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
	2 <sup>nd</sup>	4hrs	Advantages of FTIR samples & results expected	FTIR instrumentation	-	-	-	-	Quiz	01	yes	-
June	3 <sup>rd</sup>	4hrs	Applications of Quality assurance & quality control.	-	-	-	-	-	-	-	-	-
			UV-spectroscopy-emission, absorption, fluorescence.	-	will be shown emission absorption & fluorescence (ppt)	02	Yes	-	-	-	-	-
	4 <sup>th</sup>	4hrs	photoacoustic, excitation sources.	-	Remedial class	-	-	-	-	-	-	-
July	1 <sup>st</sup>	4hrs	wavelength dispersion, detection of signal, single	-	-	-	-	-	Group discussion	01	yes	-
			& double beam instruments, Interpretation - Gas-liquid chromatography, scf,	-	-	-	-	-	-	-	-	-

Signature of the Lecturer  
S. R. Tejaswi

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B. Prasad

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CURRICULUM LECTURER WISE 2021 - 2022

ANNUAL CURRICULAR					PLAN (Year)				Instrumental methods of analysis				
NAME OF THE LECTURER S.R. Tejaswi					CLASS : III B.Sc cluster		Semester : VI		Paper : VIII - A <sub>2</sub>				
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	
			Importance of column technology packed, capillary, making gas & liquid into ions	-	-	-	-	-	-	-	-	-	-
July	2nd	4hrs	Separation of ions on basis of m/e ratio Resolution, time & multiple separation	-	-	-	-	-	-	Debate	01	yes	-
			Selection & Interpretation. Atomic spectroscopy, atomic absorption, emission, fluorescence	-	will be shown. AAS, AES	01	yes	-	-	-	-	-	-
			excitation & getting sample into gas phase wavelength separation & resolution.	-	-	-	-	-	-	-	-	-	-
July	3rd	4hrs.	NMR spectroscopy Principle, Instrumentation, chemical shift & factors, Spin coupling, Applications.	-	-	-	-	-	-	Seminar	-	-	-
				-	Remedial class	01	yes	-	-	-	-	-	-

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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 <u>P. RAMYA KRISHNA</u>					CLASS : <u>III BSC cluster</u> Semester : <u>VI</u>				Paper <u>Analysis of Drugs, Foods, Drug products &amp; Biochemical Analysis</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
MAY	2 <sup>nd</sup>	4	Trace elements, RBC and WBC count,	will be shown RBC & WBC counting	counting of RBC & WBC cells	01	yes	-	-	-	-	-	-
			Estimation of Blood enzymes, Blood gas Analyser	-	-	-	-	-	-	-	-	-	-
JUNE	3 <sup>rd</sup>	4	Trace elements in the body, clinical analysis of Blood,	-	-	-	-	-	-	-	-	-	-
			Analysis of Atenolol, Analysis of lipitor	-	-	-	-	-	-	-	-	-	-
JUNE	4 <sup>th</sup>	4	Analysis of Norvasc, Analysis of Furosemide & Lansoprazole	-	-	-	-	-	-	-	-	-	-
			Analysis of Albigon	-	student debate on trace elements significance	01	yes	-	debate on trace elements	01	yes	-	-

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**CURRICULUM LECTURER WISE 2021- 2022**

ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER: P. RAMYA KRISHNA					CLASS: <u>IIIBSC-cluster</u> Semester: <u>VI</u>				Paper: <u>Analysis of Drugs, Foods, Dairy products &amp; Biochemical analysis</u>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY								
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
APRIL	3 <sup>rd</sup>	3	Unit-1 Analysis of Aspirin, paracetamol & chloroquine	will be shown preparation of Aspirin.	experiment on synthesis of Aspirin	02	yes	-	-	-	-	-	-
	4 <sup>th</sup>	4	Analysis of Amoxycillin, chloramycerin,			-	-	-	-	-	-	-	-
			Analysis of Isoniazid,			-	-	-	-	-	-	-	-
			Analysis of penicillin and tetracycline.			-	-	-	-	-	-	-	-
MAY	1 <sup>st</sup>	4	Unit-2 clinical Analysis and composition of Blood		student seminar on composition of Blood	01	yes	-	-	seminar	01	yes	-
			Estimation of Blood sugar and blood cholesterol	will be shown estimation of blood sugar	Blood sugar estimation	01	yes	-	-	-	-	-	-

Signature of the Lecturer: *P. Ramya Krishna*

Signature of the HOD: *B. Anur*

Signature of the Principal: *[Signature]*



SIR C.R.REDDY COLLEGE FOR WOMEN, ELURU

CURRICULUM LECTURER WISE 2021-2022

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER					CLASS : III BSC-CLUSTER Semester : IV				Paper : Products & 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
July	1st	4	Unit-3: Analysis of cefotaxime, Analysis of	-	-	-	-	-	Group Discussion on preservatives	01	yes	-
			Terazadone & lorazepam, Analysis of diazepam & zolpidem	-	student Quiz on drugs	01	yes	-	-	-	-	-
	2nd	4	1st mid Examinations	-	-	-	-	-	-	-	-	-
	2nd	4	Unit-4: Analysis of milk and milk products,	will be shown experiment of	experiment on Analysis of	01	yes	-	-	-	-	-
			colouring matters Analysis, flavouring agents preservatives, Adulterants in oils, tea & coffee powder, milk, rice	milk casein and milk acidity	casein in milk	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-

Signature of the Lecturer

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B. Ravi

Signature of the Principal

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