

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

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>B. Tulasi Kotcharibai</i>					CLASS : <i>IBSc</i>		Semester : <i>I</i>		Paper : <i>I</i> <i>Inorganic and organic 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>June</i>	<i>3rd</i>	<i>4</i>	<i>Syllabus Dictation, organo metallic chemistry - Introduction Nomenclature,</i>	—		—		—		—		—	
			<i>preparation, properties and applications of alkyls of Li and Mg.</i>	<i>uses of organo metallic compounds</i>	—		—		—		—		—
	<i>4th</i>	<i>5</i>	<i>Alkenes - preparation Heat of hydrogenation and stability of alkenes Markonikoff's &</i>	—		—		—		—		—	
			<i>Anti markonikoff's Diene - Types, reaction 1,2, 1,4 addition of HBr, to 1,3-Butadiene & Diels-Alder.</i>	—		—		—		—		—	
<i>July</i>	<i>1st</i>	<i>5</i>	<i>Alkynes - preparation, Acidity of acetylenic hydrogen, Formation of metal acetylides, prep of higher acetylides.</i>	—		—		—		—		—	
			<i>Metal-ammonia reduction physical prop. and chemical reactivity - Etc. add of X₂, HX, H₂O, oxid reduction polymerization.</i>	—		—		—		—		—	

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NAMR OF THE LECTURER <i>B. Tulani Kotewar: bai</i>					CLASS : <i>IBSc</i>		Semester : <i>I</i>		Paper : <i>I</i>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO- CURRICULAR ACTIVITY				
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<i>August</i>	<i>1st</i>		<i>Benzene and its reactivity concept of resonance, resonance energy, Heat of hydrogenation and Combustion Mention of C-C bond lengths</i>	—		—		—		—		—	
<i>1</i>	<i>2nd</i>	<i>3</i>	<i>Concept of aromaticity Aromaticity, Huckel's rule application to Benzene and non benzene General mechanism of electrophilic substitution</i>	—		—		—		—		—	
			<i>electrophilic substitution</i>	—		—		—		—		—	
	<i>3rd</i>	<i>5</i>	<i>Mechanism of Nitration Friedel Craft's alkylation acylation, orientation of aromatic substitution</i>	—		—		—		—		—	
			<i>Definition of ortho para and meta directing group Ring activity & deactivity Electronic interpretation</i>	—		—		—		—		—	
	<i>4th</i>	<i>7</i>	<i>orientation of (i) Amino, methoxy & methyl (ii) Nitro, Carboxy, nitro & Carbonyl Sulphonic acid (iii) Halogens</i>	—		—		—		—		—	

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER - S. KRISHNA VENI					CLASS : II BSc - CR2		Semester : III		Paper : III Inorganic and organic chemistry				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
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June	1 st	2 hrs	Chemistry of d-block elements - Electronic Configurations	uses of d-block elements	-	-	-	-	-	-	-	-	-
	2 nd	3 hrs	Chemistry of d-block elements - Variable valence, magnetic properties, catalytic properties, and ability to form complexes	-	-	-	-	-	-	-	-	-	-
	3 rd	3 hrs	Stability of various oxidation states - Chemistry of f-block elements - Chemistry of lanthanides, electronic structure, oxidation states.	-	-	-	-	-	-	-	-	-	-
	4 th	3 hr + 1 hr	Lanthanide contraction, Consequences of lanthanide contraction and magnetic properties. Chemistry of actinides.	f-block elements applications	-	-	-	-	-	-	-	-	-
July	1 st	3 hrs	Halogen compounds - nomenclature and classification. nucleophilic substitution reactions - S _N 1 & S _N 2	-	-	-	-	-	-	-	-	-	-
	2 nd	3 hrs	Hydroxy compounds - nomenclature and classification, preparation of alcohols & phenols, physical properties, classification of alcohols & phenols, chemical properties, role of H ₂ O	-	50 min	yes	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER					CLASS :		Semester :		Paper :				
C. KRISHNA VENI					II BSc - CBZ		III		III Inorganic & organic chemistry				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
					Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	Activity Conducted	Hours Allotted	Whether Conducted	If not Alternate Date	
July	3 rd	5hrs	Haloxy Compounds - Feies, azo coupling, phenol - phenolone rearrangement - active methylene compounds	-	Quiz	01	yes	-	-	-	-	-	-
	4 th	5hrs	Active methylene Compounds, theories of bonding in metals.	-	-	-	-	-	-	-	-	-	-
August	1 st	5hrs	theories of bonding in metals, metal Carbonyls - EAN rule	-	Group discussion	01	yes	-	-	-	-	-	-
	2 nd	3hrs	metal Carbonyls - classification & structure of metal carbonyls.	-	-	-	-	-	-	-	-	-	-
	3 rd	5hr	metal Carbonyls - structures, Carboxylic acid and derivatives	-	debate	01	yes	-	-	-	-	-	-
	4 th	4hr + 3hr	Carboxylic acid & derivative - prep, prop, physical and chemical properties, carbonyl compounds	-	-	-	-	-	-	-	-	-	-

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NAMR OF THE LECTURER <i>S. KRISHNA VENI</i>					CLASS : <i>ILRCC-CB2</i>		Semester : <i>III</i>		Paper : <i>III</i>		<i>Inorganic & organic chemistry</i>			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY					
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<i>September</i>	<i>1st</i>	<i>4 hrs</i>	<i>Carbonyl Compounds - Synthetic, physical properties, redn rxn, Base catalyzed rxn</i>	<i>uses of aldehydes & ketones</i>	-	-	-	-	-	-	-	-	-	
	<i>2nd</i>	<i>4 hrs</i>	<i>Carbonyl Compounds - oxidation & reduction reactions, Analysis of aldehydes & ketones</i>	-	-	-	-	-	-	-	-	-	-	
	<i>3rd</i>													

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ANNUAL CURRICULAR					PLAN (Year) <i>Inorganic, organic & Physical Chemistry</i>								
NAMR OF THE LECTURER <i>V. RAJA RAJESWARI</i>					CLASS : <i>III BSC</i>		Semester : <i>V</i>		Paper : <i>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>3</i>	<i>4</i>	<i>Preparation of amines, physical properties & Basic character of amines.</i>	<i>Explanation of diazotisation with practical</i>	<i>Preparation of azo dye</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>Group Discussion</i>	<i>1</i>	<i>yes</i>	<i>-</i>
	<i>4</i>	<i>2</i>	<i>steric effects and substituent effects. chemical properties Alkylation, Acylation</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>AUGUST</i>	<i>1</i>	<i>4</i>	<i>Carbylamine, Hinsberg Reaction with Nitrosonium Electro phile substitution, Diazotization</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>Debate</i>	<i>1</i>	<i>yes</i>	<i>-</i>
	<i>2</i>	<i>2</i>	<i>Thermodynamics First law statement def. of internal energy and enthalpy</i>	<i>Definitions of Thermodynamics</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>Quiz</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>3</i>	<i>4</i>	<i>Heat capacities, Joule-Thomson effect calculation of w for Isothermal expansion</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>4</i>	<i>4</i>	<i>calculation of w for adiabatic reversible expansion. Kirchoff's equation. II law, Carnot cycle</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>Quiz</i>	<i>1</i>	<i>yes</i>	<i>-</i>

V.R. Raj
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NAMR OF THE LECTURER <i>V. RAJA RAJESWARI</i>					CLASS : <i>III BSc</i>		Semester : <i>V</i>		Paper : <i>VA</i>				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
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<i>June</i>	<i>1</i>	<i>1</i>	<i>Introduction</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>2</i>	<i>4</i>	<i>Coordination Chemistry</i> <i>IUPAC, Bonding theories</i> <i>- Werner's, Sidgwick's,</i> <i>Valence bond theory</i>	<i>Definitions of the terms used in</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>3</i>	<i>4</i>	<i>Crystal field theory</i> <i>- Splitting of d-orbitals in octahedral tetrahedral square planar complexes</i>	<i>Coordination Chemistry</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>4</i>	<i>4</i>	<i>Isomerism</i> <i>Spectral and magnetic properties of metal complexes.</i>	<i>Determination of χ by Cray's method</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>Seminar</i>	<i>1</i>	<i>Yes</i>	<i>-</i>	<i>-</i>
<i>July</i>	<i>1</i>	<i>4</i>	<i>Stability of metal complexes - factors affecting the stability of complexes, Jørgensen's method.</i>	<i>Kinetic stability & Thermodynamic stability</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
	<i>2</i>	<i>4</i>	<i>Nitro hydrocarbons: Nomenclature, classification, Tautomerism, preparation, Reactivity, Amines</i>	<i>Definition of Nitrohydro-carbon with examples.</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>

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NAMR OF THE LECTURER <i>V. RAJA RAJESWARI</i>					CLASS : <i>III BSc</i>		Semester : <i>V</i>		Paper : <i>V</i>			
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<i>September</i>	<i>1</i>	<i>4</i>	<i>Carnot theorem, Entropy change in reversible & irreversible processes.</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>
	<i>2</i>	<i>3</i>										
	<i>3</i>	<i>4</i>										

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NAMR OF THE LECTURER P. RAMYA KRISHNA					CLASS : III BSc		Semester : V		Paper : VB Inorganic, organic and physical chemistry				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
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June	1	1	Syllabus Dictation	—	—	—	—	—	—	—	—	—	—
	2	4	Heterocyclic compounds Introduction, definition Aromatic character of Pyridine, Furan, Thiophene, preparation methods electrophilic substitution reactions, pyridine Basicity, aromaticity	—	—	—	—	—	—	—	—	—	—
	3	4	pyridine, properties, nucleophilic reactions, carbohydrates, classification preparation tion, structural elucidation of Glucose & Fructose, chemical reactions of Glucose & Fructose Interconversions	—	—	—	—	—	—	—	—	—	—
	4	5	uses of Glucose and Fructose Tests of glucose & Fructose	—	—	—	—	—	—	—	—	—	—

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ANNUAL CURRICULAR					PLAN (Year)							
NAMR OF THE LECTURER P. RAMYA KRISHNA					CLASS : III BSC	Semester : V			Paper : VB			
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY			
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July	1	4	photochemistry - process, laws of photochemistry, HCl, H ₂ S formation, tables & diagram	5 -	seminar	01	yes	-	-	-	-	-
	2	3	fluorescence, phosphorescence, rate of reaction, rate constant of 1 st & 2 nd order reactions	-	-	-	-	-	-	-	-	-
	3	4	rate constant derivation of zero order & methods for determination of a order of a reaction	-	-	-	-	-	-	-	-	-
	4	4 (4+3) Mid Exams	Effect of Temperature Arrhenius equation concept of activation energy, classification of Amino acids	-	-	-	-	-	-	-	-	-
August	1	4	preparation methods of amino acids	Applications of Amino acids	-	-	-	-	-	-	-	-
	2	2	physical properties zwitter ion structure p _{so} electric point	-	-	-	-	-	-	-	-	-

Inorganic, organic & Physical chemistry

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER: P. RAMYA KRISHNA					CLASS: III BSC		Semester: IV		Paper: IV B Chemistry				
MONTH	WEEK	HOURS AVAILABLE	SYLLABUS/ TOPIC	Additional Input/Value Addition Provided/ Taught	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITY				
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August	3	3	chemical reactions of amino acids peptide bonds - Lactam formation	Lactams formation	Group Discussion	01	yes	-	-	-	-	-	-
	4	6 (4+2)	structure of proteins & peptides Nomenclature of proteins & peptides	uses of proteins	-	-	-	-	-	-	-	-	-
September	1	4	reactivity of metal complexes, labile & inert complexes, ligand substitution	-	-	-	-	-	-	-	-	-	-
			reactions, SN ¹ & SN ² reactions, trans effect	-	-	-	-	-	-	-	-	-	-
	2	3	II mid exams	-	-	-	-	-	-	-	-	-	-
	3	4	Biological significance of Na, K, Mg, Ca, Fe, Co, Ni, Cu, Zn, Al, Hb, myoglobin & chlorophyll	-	Quiz	01	yes	-	-	-	-	-	-

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