

~~2019-2020~~ -2019-2020

ANNUAL CURRICULAR					PLAN (Year) physical and general chemistry								
NAME OF THE LECTURER K. SUJATHA					CLASS : D.B.S		Semester : II		Paper : 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	
Nov	3	5	Syllabus dictation, gaseous state compression factors	Definition of Gas laws	—	—	—	—	—	—	—	—	—
			deviation of real gases Vander waals equation of state, Andrews	Boyle's law, Charles law Avogadro's law.	—	—	—	—	—	—	—	—	—
			isotherms of CO ₂ , critical phenomena	—	—	—	—	—	—	—	—	—	—
			Relationship between critical constants & Vander waals constants, law of corresponding states	—	—	—	—	—	—	—	—	—	—
				—	Remedial class	01	Yes	—	—	—	—	—	—
	4	5	Joule-Thomson effect Introduction of liquid state, structural differences between solids, liquids & gases, liquid crystal	—	—	—	—	—	—	—	—	—	—
			classification of liquid crystal, Application of liquid crystals as LCD devices, Introduction of colloids	—	—	—	—	—	—	—	—	—	—
Dec	1	5	def of colloid	—	—	—	—	—	—	—	—	—	—

Signature of the Lecturer K. Sujatha

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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>K. SUJATHA</u>					CLASS : <u>I B.Sc</u> Semester : <u>II</u>				Paper : <u>II</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	2	5	prep of sols, purification properties - kinetic, optical, electrical, stability	-	-	-	-	-	-	-	-	-	-
			Schulze law, protective colloids, Emulsions prep, prop & uses	-	1	-	-	-	-	-	-	-	-
	3	5	Liquids in solids (ads) prep, uses, Adsorption physical adsorption, chemisorption, Freundlich & langmuir adsorption isotherm	-	Remedial class	01	yes	-	-	-	-	-	-
			Applications of adsorption.	-	-	-	-	-	-	-	-	-	-
Jan	1	4	Introduction of chemical bonding VB theory, Hybridisation, VB theory as application to CF_3 , $NiCO_4$	-	-	-	-	-	-	-	-	-	-
	2	5	MO theory - LCAO method	-	-	-	-	-	-	-	-	-	-
			construction of MO diagrams for H_2O nuclear and Helix	-	-	-	-	-	-	-	-	-	-

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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)							
NAME OF THE LECTURER <u>K. SUJATHA</u>					CLASS <u>I B.Sc</u>			Semester: <u>II</u>		Paper: <u>II</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
			Non ideal solutions Vapour pressure composition E_0	-	-	-	-	-	-	-	-	-
			Vapour pressure temperature	-	-	-	-	-	-	-	-	-
Feb	1	6	Azotropes-H ₂ -H ₂ O EtOH-H ₂ O system Fractional distillation	-	-	Assignment submission	01	Yes	-	-	-	-
			partially miscible liquids phenol-water, Nicotine- water system, effect of impurity on c.s.T, steam distillation, Raoult distribution law, Applica tions	-	-	-	-	-	-	-	-	-
			Introduction to stereo chemistry, molecular representations	-	-	-	-	-	-	-	-	-
	2	5	optical isomerism, chiral molecules, pair of enantiomers, diastereo mers, explanation of optical isomerism with examples, Glyceraldehyde, lactic acid, dopamine DL E, R S configurations	-	-	Seminar	01	Yes	-	-	-	-
			method, E-Z configura tion with examples	-	-	Quiz	01	Yes	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAME OF THE LECTURER					CLASS :	Semester :			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	
			nuclear diatomic molecules $\text{Cl}_2, \text{O}_2, \text{CO}$ GeNO		-	-	-	-	-	-	-	-	-
			solid state - symmetry in crystals, law of constancy of		-	-	-	-	-	-	-	-	-
			interfacial angles.		-	-	-	-	-	-	-	-	-
Jan	4	5	The law of rationality of indices, law of symmetry, Def of lattice point, space lattice, unit cell Bravais lattices		Remedial class	01	Yes	-	-	-	-	-	-
			6 crystal systems x-ray diffraction and crystal structures		-	-	-	-	-	-	-	-	-
	5	4	Bragg's law, Defect in crystals, stoichiometric and non stoichiometric defects		-	-	-	-	-	-	-	-	-
			Introduction to solutions Ideal solutions,		-	-	-	-	-	-	-	-	-
			Raoult's law, Ideally dilute solutions Henry's law		-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year) Spectroscopy & Physical Chemistry								
NAMR OF THE LECTURER P. RAMYA KRISHNA					CLASS : II BSc		Semester : IV Semester		Paper : IV 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	
NOV	2	3	phase rule, concept of phase, components, degrees of freedom	-	-	-	-	-	-	-	-	-	-
	3	5	Thermodynamic Derivation of Gibbs phase rule phase equilibrium of one component system water system.	-	-	-	-	-	-	-	-	-	-
			Pb-Ag system, desilverisation of lead, NaCl-water system, freezing mixtures	Ag-Pb Applications	01	yes	-	Group Discussion	01	yes	-	-	-
	4	3	Dilute Solutions colligative properties Raoult's law, relative lowering of vapour pressure, Elevation in Boiling point Depression in Freezing Point, Derivation of relation between elevation in Boiling point & Depression in Freezing point	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-

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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: P. RAMYA KRISHNA					CLASS: II BSC				Semester: IV Semester		Paper: 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	
Decem ber	1	5	Dilute Solutions, Abnormal colligative properties, experi- mental methods, van't HOFF factor- degree of association & degree of dissociation	-	-	-	-	-	-	-	-	-	-
	2	5	Spectroscopy: General features of absorption Beer-Lambert's law and its limitations transmittance, absorbance, molar absorptivity/ Single & double beam Spectrophotometer Applications. Determini- nation of CO_3^{2-} in K_2CO_3 Mn^{2+} in MnSO_4	-	-	-	-	-	-	-	-	-	-
	3	5	Electronic Spectroscopy interaction of electron magnetic radiation with molecules, energy levels of molecular orbitals, selection rules	remedial class	-	-	-	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER P. RAMYA KRISHNA					CLASS : IIBSC			Semester : IV Semester		Paper : IIT			
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		23/12/19 to 26/12/19 - christmas holidays 27/12/19 to 31/12/19 - 1 mpt exams		-	-	-	-	-	-	-	-	-
Janua 19	1	5	Electronic spectroscopy Pt: theory of electronic transitions	-	student quiz	01	yes	-	-	-	-	-	-
			conjugation, concept of chromophore & auxochrome	-	-	-	-	-	-	-	-	-	-
	2	5	different regions in IR, modes of vibrations, characteristic absorption bands	-	Debate	01	yes	-	Debate	01	yes	-	
			Interpretation of spectra	-	-	-	-	-	-	-	-	-	
	4	5	NMR, principles of NMR, equivalent & non equivalent protons, position of signals, spin-spin coupling, coupling constants, Applications of NMR with examples ethyl bromide, ethanol	NMR applications	-	-	-	-	-	-	-	-	
			CH ₃ CHO, 1,1,2-trichloroethane, ethyl acetate, toluene, phenol	-	-	-	-	-	-	-	-	-	

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>P. PAMYA KRISHNA</u>					CLASS :		Semester :		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	
February	1	3	3/02/20 to 05/02/20 electrochemistry- Specific conductance	-II mid exams	—	—	—	—	—	—	—	—	—
			equivalent conductance Arrhenius theory EIT'S limitations	—	—	—	—	—	—	—	—	—	—
			ostwald's dilution law, Debye-Huckel theory, transport Number, Hittorf's method, Applications of conductometric titrations	6 —	seminar	—	—	—	seminar	01	yes	—	—
	2	5	Electrochemistry-II single electrode potential, sign convention Revers ible & irreversible cells, Nernst equation, Reference electrode, SHE, Calomel electrode Indicator electrode metal metal ion electrode Inert electrode, EMF Applications of GMF Potentiometric	will be demonstrate conductometric titrations	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—
				—	—	—	—	—	—	—	—	—	—

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ANNUAL CURRICULAR					PLAN (Year) <i>Analytical methods in chemistry</i>								
NAMR OF THE LECTURER <i>V. RAJA RATESWARI</i>					CLASS : <i>III BSC</i> Semester : <i>VI</i>				Paper : <i>VII (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>Jan</i>	<i>4</i>	<i>4+2</i>	<i>Chromatography classification of chromatography methods</i>	<i>Definitions of stationary phase, mobile phase</i>	-	-	-	-	<i>Debate</i>	<i>1</i>	<i>yes</i>	-	
			<i>principles of differential migration adsorption phenomenon, Nature of adsorbents, solvent systems, R_f values, factors effecting R_f values.</i>	<i>Chromatography</i>	-	-	-	-	-	-	-	-	
			<i>Paper chromatography principles, R_f values, experimental procedure</i>	<i>Identification of unknown sample by using R_f value</i>	-	-	-	-	-	-	-	-	
<i>Feb</i>	<i>1</i>	<i>4</i>	<i>choice of paper and solvent systems, developments of chromatogram - ascending, descending and radial. Two dimensional chromatography, applications.</i>	<i>Introduction of paper chromatography</i>	-	-	-	-	-	-	-	-	
			<i>TLC - Advantages, principles, factors effecting R_f values. Experimental procedure</i>	<i>Introduction of TLC</i>	<i>Showing TLC plates</i>	-	-	-	<i>Group Discussion</i>	<i>1</i>	<i>Yes</i>	-	
	<i>2</i>	<i>4</i>	<i>Adsorbents and solvents.</i>	-	-	-	-	-	-	-	-	-	

V. R. Raja
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ANNUAL CURRICULAR					PLAN (Year) Analytical methods in chemistry								
NAMR OF THE LECTURER V. RAJA RAJESWARI					CLASS : III BSC		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	
Feb	2	4	Preparation of plates Development of the chromatogram.	-	-	-	-	-	-	-	-	-	-
			Detection of the spots. Applications	-	-	-	-	-	-	-	-	-	-
	3	4	column chromatography - principles, experimental procedure	Introduction of column chromatography	-	-	-	-	Quiz	1	Yes	-	-
			stationary and mobile phases separation technique.	-	-	-	-	-	-	-	-	-	-
			Applications. HPLC - Basic principles and applications.	Instrumentation of HPLC	-	-	-	-	-	-	-	-	-

V.R. Raj
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ANNUAL CURRICULAR					PLAN (Year) Analytical Methods in chemistry								
NAMR OF THE LECTURER V. RATA RAJESWARI					CLASS : III BSC		Semester : VI		Paper : III (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	
Dec	4		23/12/19 to 26/12/19 - Christmas holidays										
			27/12/19 to 31/12/19 - I Mid Exams										
Jan	1	4	Solvent Extraction Introduction, principle, techniques, factors	Definitions of solute, solvent,									
			affecting solvent extraction Batch extraction, continuous extraction, synergism.	solvent extraction.									
	2	3	Counter current extraction. Application - Determination of Fe(III).										
			Ion exchange - Introduction of ion exchange resin, applications.	Types of ion exchange resins.									
			Separation of inorganic mixtures.	Explanation of Ion-exchange method									
	3		12/1/20 to 19/1/20 - Pongal holidays										

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ANNUAL CURRICULAR					PLAN (Year) Analytical Methods in Chemistry								
NAMR OF THE LECTURER V-RAJA RAJESWARI					CLASS : III BSC 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	
NOV	3	2	Introduction Quantitative analysis Importance in various fields of science steps in chemical analysis	Definitions of Quantitative and Qualitative analysis	-	-	-	-	-	-	-	-	-
	4	4+2	Principles of volumetric analysis Theories of acid-base, redox, Complexometric, iodometric and precipitation titration choice of indicators	analysis with examples	-	-	-	-	-	-	-	-	-
Dec	1	3	b) Principles of gravimetric analysis, precipitation, coagulation, peptization coprecipitation post precipitation digestion filtration, washing, drying and ignition	-	-	-	-	-	-	-	-	-	-
	2	4	Treatment of Analytical data - Types of errors, significant figures and its importance, accuracy - methods of expressing accuracy, precision - methods of expressing precision	-	-	-	-	-	-	Seminar	1	Yes	-
	3	4	Error analysis and minimization of errors, standard deviation and confidence limit.	-	-	-	-	-	-	Seminar	1	Yes	-

V.R. Raja
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ANNUAL CURRICULAR					Chemistry-cluster PLAN (Year) Chemistry CLUSTER - A-1											
NAME OF THE LECTURER K. SUJATHA					CLASS : III B.Sc (AI)				Semester : VI				Paper : 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				
NOV	4 th	4	Introduction of polymers, Basic definitions	—	—	—	—	—	—	—	—	—	—			
			degree of polymerisation, classification of polymers,	—	—	—	—	—	—	—	—	—	—			
			Linear, branched and cross linked polymers	—	—	—	—	—	—	—	—	—	—			
Dec	1 st	4	Addition and condensation polymers, Mechanism of polymerisation	—	—	—	—	—	—	—	—	—	—			
			Free radical polymerisation, Ionic polymerisation and	—	—	—	—	—	—	—	—	—	—			
			zeiglar-natta polymerisation.	—	—	—	—	—	—	—	—	—	—			
	2 nd	4	Techniques of polymerisation, Bulk polymerisation, solution, suspension and emulsion polymerisation	—	01	yes	—	—	—	—	—	—				
					—	—	—	—	—	—	—	—				

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>K-SUJATHA</u>					CLASS : <u>III B-Sc</u>			Semester : <u>VI</u>		Paper : <u>polymers chemistry class A</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	3 rd	4	NOI of Average M.w, weight average M.w, Determination of M.w by viscometry and osmometry.	—	—	—	—	—	—	—	—	—	—
			Kinetics of free radical polymerisation, Glass transition temperature and determination of T _g , Free volume theory	—	—	—	—	—	—	Seminar	01	Yes	—
Jan	1	4	Transition temperature and determination of T _g , Free volume theory	—	—	—	—	—	—	—	—	—	—
			wLF equation, Factors affecting T _g , plasticizers, softners, fillers	—	—	—	—	—	—	—	—	—	—
Jan	2	4	plasticizers, softners, fillers	—	—	—	—	—	—	Remedial class	01	Yes	—
			Lubricants, Flow Promoters, Anti ager	—	—	—	—	—	—	—	—	—	—
Jan	4	4+3	Lubricants, Flow Promoters, Anti ager	—	—	—	—	—	—	—	—	—	—
			additives, Flame retardants, colourants, blowing agents, cross	—	—	—	—	—	—	—	—	—	—
			linking agents, flow promoters, photo stabilizers	—	—	—	—	—	—	—	—	—	—

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <i>K. SUJATHA</i>					CLASS : <i>III B.Sc Chem</i> Semester : <i>VI</i>				Paper : <i>chem A1</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>Nucleating agents preparation and</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>
			<i>Industrial applications of polyethylene.</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>Quiz</i>	<i>01</i>	<i>yes</i>	<i>—</i>
<i>Feb</i>	<i>1</i>	<i>1</i>	<i>poly vinyl chloride.</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>teflon, tetelene poly acrylonitrile</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>group discussion</i>	<i>01</i>	<i>yes</i>	<i>—</i>
			<i>Nylon 6, 6</i>	<i>—</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>silicones</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>

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ANNUAL CURRICULAR					PLAN (Year)				Chemistry cluster-A-2				
NAME OF THE LECTURER: G. KRISHNA VENI					CLASS: III BSc Semester: VI				Paper: cluster 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	
October	4 th	4hrs	Introduction to spectroscopic methods of analysis - treatment of analytical data, error analysis, classification of analytical methods, types of instrumental methods.	-	-	-	-	-	-	-	-	-	-
			Consideration of EMR	-	-	-	-	-	-	-	-	-	-
December	1 st	4hrs	IR spectroscopy - Absorption & scattering, light sources, separation of spectrum, detection of signals.	-	-	-	-	-	-	-	-	-	-
	2 nd	4hrs	Interpretation of spectrum, advantages of FTIR, samples and results expected, applications of QA & QC	FTIR Documentation	-	-	-	-	-	-	-	-	-
	3 rd	4hrs	UV spectroscopy - Emission, absorption, fluorescence,	-	-	-	-	-	-	-	-	-	-

G. Krishna Veni
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ANNUAL CURRICULAR					PLAN (Year)				Chemistry cluster - A-2				
NAMR OF THE LECTURER					CLASS : III BSC Semester : VI				Paper : Cluster 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	
			photoacoustic, excitation sources, wave length dispersion	-	-	-	-	-	-	-	-	-	-
	TH 4	4hrs	Detection of signal, single & double beam instruments, Interpretation.	-	-	-	-	-	-	-	-	-	-
			chromatography - gas-liquid chromatography, Super Critical fluids, Importance of column technology-making, Capillaries.	-	-	-	-	-	-	-	-	-	-
Jan	1st	4hrs	Separation based on increasing no. of factors: detection - simple vs specific, detection of further analysis	-	-	-	-	-	-	-	-	-	-
			Use of tags & Coupling to IR & MS	-	-	-	-	-	-	-	-	-	-
	TH 4	4hrs	mass spectrometry - making the gaseous molecule into ions, mass principle	mass principle	student seminar	02	yes	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER: <u>G. KRISHNA VENI</u>					CLASS: <u>III BCC</u>		Semester: <u>VI</u>		Paper: <u>Chemistry cluster - A-2</u> <u>cluster A(2)</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	
			making liquids & solids into ions, separation of ions on basis of m/e ratio. Resolution	-	Assignment submission	01	yes	-	-	-	-	-	-
			time & multiple separations.	-	-	-	-	-	-	-	-	-	-
Feb	1 st	4hrs	Detection and Estimation.	-	-	-	-	-	-	-	-	-	-
			mass spectrometry: Atomic spectroscopy - Atomic absorption,	-	-	-	-	-	-	-	-	-	-
			Atomic emission, Atomic fluorescence excitation & getting	fluorimetry - Estimation	-	-	-	-	-	-	-	-	-
			Sample into gas phase, wave length separation and	-	-	-	-	-	-	-	-	-	-

G. Krishna Veni
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CURRICULUM LECTURER WISE 2019 - 2020

ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>S. CRICHNA VENI</u>					CLASS : <u>III BSC</u>		Semester : <u>VI</u>		Paper : <u>Chemistry cluster - A-2</u> <u>cluster A(2)</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	
			Resolution, detection and Estimation.	-	-	-	-	-	-	-	-	-	-
	2nd	4hrs	NMR spectroscopy-principle,	-	Group discussion	01	yes	-	-	-	-	-	-
			Documentation, chemical shift & factors,	-	Quiz	01	yes	-	-	-	-	-	-
			Spin Coupling, Applications.	-	debate	01	yes	-	-	-	-	-	-

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ANNUAL CURRICULAR					PLAN (Year) Chemistry cluster - A-3								
NAME OF THE LECTURER P. RAMYA KRISHNA					CLASS : III BSc			Semester : VI		Paper : cluster - paper (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	
Novem ber	4 th	4	Unit - 4 Analysis of analgesics & antipyretics like aspirin and paracetamol, chloroquine.	—	—	—	—	—	—	—	—	—	—
			amoxycillin, chloramphenicol	—	—	—	—	—	—	—	—	—	—
Decem ber	1 st	4	Analysis of penicillin, tetracycline	medicinal uses	—	—	—	—	—	—	—	—	—
			Antituberculous drug - isoniazid	—	—	—	—	—	—	—	—	—	—
			Unit - II clinical analysis of blood	—	—	—	—	—	—	—	—	—	—
			composition of blood.	Blood grouping types	—	—	—	—	—	—	—	—	—
	2 nd	4	Trace elements in the body,	—	seminar	ok	yes	—	seminar	ok	yes	—	—
			estimation of blood cholesterol	will be shown, blood cholesterol estimation	—	—	—	—	—	—	—	—	—

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER P. RAMYA KRISHNA					CLASS : III BSC			Semester : VI		Paper : CLUSTER-A (3)			
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	
			Estimation of blood glucose and enzymes	—	—	—	—	—	—	—	—	—	—
Decem ber	3 rd	4	RBC & WBC, Blood gas analysis	project on Blood grouping types	—	—	—	—	—	—	—	—	—
			anti epileptic & anti convulsant drugs like phenobarbital & phenacemide	—	—	—	—	—	—	—	—	—	—
			Analysis of Cardiovascular drugs atenolol, norvasc, lipitor, furosemide	—	—	—	—	—	—	—	—	—	—
	4 th	4	and analysis of prevacid	—	—	—	—	—	—	—	—	—	—
January	1 st	4	Analysis of anti histamines and sedative like allegra, cetorizine, alprazolam	—	—	—	—	—	—	—	—	—	—
				—	Group Discussion	01	yes	—	—	—	—	—	—

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ANNUAL CURRICULAR					PLAN (Year)								
NAMR OF THE LECTURER <u>P RAMYA KRISHNA</u>					CLASS : <u>III BSC</u>		Semester : <u>VI</u>		Paper : <u>cluster - A(3)</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	
January	1st	4	analysis of trazodone,	—	—	—	—	—	—	—	—	—	—
			lorazepam, ambien, diazepam	—	—	—	—	—	—	—	—	—	—
	2nd	4	Analysis of milk and milk	—	—	—	—	—	—	—	—	—	—
			products, acidity, total	project on Analysis of milk	—	—	—	—	—	—	—	—	—
			Solids, fat, total nitrogen	—	—	—	—	—	—	—	—	—	—
	4th	4	Analysis of proteins, lactose	—	—	—	—	—	—	—	—	—	—
			phosphate activity, casein	—	—	—	—	—	—	—	—	—	—
			chloride	—	—	—	—	—	—	—	—	—	—
February	1st	4	Analysis of food materials	Remedial class	—	—	—	—	—	—	—	—	—

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ANNUAL CURRICULAR					PLAN (Year)											
NAME OF THE LECTURER					CLASS : III BSc				Semester : VI				Paper : cluster - A (3)			
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				
			preservatives, Na ₂ CO ₃ , Sodium benzoate, Sorbic acid.	—	—	—	—	—	—	—	—	—	—	—		
February	2nd	4	colouring matters Brilliant blue FCF, Fast green FCF, Sunset yellow FCF	—	—	—	—	—	—	—	—	—	—	—		
			Vanilla, diacetyl isoamyl acetate	—	—	—	—	—	—	—	—	—	—	—		
			Pimone. Adulterants in rice, wheat, wheat flour, coconut oil, coffee powder, tea powder, milk	—	—	—	—	—	—	—	—	—	—	—		
				—	—	—	—	—	—	—	—	—	—	—		
				—	—	—	—	—	—	—	—	—	—	—		
				—	—	—	—	—	—	—	—	—	—	—		

P. Rama Krishna
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