S V R K GOVERNMENT DEGREE COLLEGE :: NIDADAVOLE
TABLE – A – CURRICULAR PLAN – LECTURER WISE

NAME OF THE LECTURER : Smt. M.USHA RANI
DEPARTMENT : CHEMISTRY **CLASS: II B.SC** **YEAR: 2021-2022** **SEMESTER: 4** **PAPER : 4**

SERIAL NUMBER	MONTH & WEEK	HOURS AVAILABLE	SYLLABUS TOPIC	ADDITIONAL INPUT /VALUE ADDITION	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITIY				REMARKS
					ACTIVITY	HOURS ALLOTED	WHETHER CONDUCTED	IF NOT, ALTERNATIVE DATE	ACTIVITY	HOURS ALLOTED	WHETHER CONDUCTED	IF NOT, ALTERNATIVE DATE	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
May	1 st week	3 Hrs	**OMC**: Definition and classification of OMC, concept of hepticity of organic ligands, Metal carbonyls-18 e- rule, electron count of mononuclear, poly nuclear and substituted metal carbonyls of 3d series.	OMC properties and synthetic applications	Lecture/ICT Practical LECTURE	3Hrs							
	2 nd week	4 Hrs	General methods synergic effects of preparation for OMC , p-acceptor behavior of CO, -MO diagrammes.		ICT	4Hrs							
	3 rd week	4 Hrs	**Carbohydrates:** occurrence, classification, constitution of glucose , fructose.		ICT	4Hrs							
	4 th week	4 Hrs	Interconversions, disaccharides.	Terminology in carbohydrates	ICT	4Hrs			ASSIN.	2HRS	YES		
June	1 st week	4 Hrs	**Amino acids:** Definition, classification, preparation methods, physical properties.		ICT	4Hrs							
	2 nd week	4Hrs	Chemical properties of Amino acids, structure and nomenclature of peptides, structure of protein.	Importance of Amino acids in biological system	ICT	4Hrs							

3 rd week	4Hrs	**Nitrogen compounds**: Nomenclature, classification, tautomerism and preparation methods for nitro alkanes and reactivity of nitro alkanes.		LECTURE Mid1	2Hrs 2 Hrs							
4 th week	4 Hrs	Amines classification, preparation methods, physical and chemical properties, distinction between primary, secondary and tertiary amines.		Lecture/ICT Practical LECTURE	4Hrs							
2Hrs	4 Hrs	Diazonium salts preparation and synthetic applications		lecture	4Hrs							
2 nd week	4Hrs	**Photo chemistry**: laws of Photo chemistry, Quantum yield ,Jablonski diagram	Applications of fluorescence& phosphorescence processes	Lecture/ICT Practical	3HRS			QUIZ	1 Hrs			
3 rd week	4Hrs	**Thermodynamics :** Laws of Thermodynamics, Heat capacities and their relationship ,Joule-thomson efect	Different statements for first law of thermodynamics.	Lecture Mid2	2Hrs 2 Hrs							
4 th week	4Hrs	Kirchoff 's equation, carnot'S theorem ,entropy changes,Third law of Thermodynamics, Helmholtz and Gibbs energies.		Lecture/ICT Practical LECTURE	4 HRS							

SIGNATURE OF THE LECTURER

SIGNATURE OF THE HEAD OF THE DEPARTMENT

SIGNATURE OF THE PRINCIPAL