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

NAME OF THE LECTURER : G.RAHUL
DEPARTMENT : CHEMISTRY

CLASS: III B.SC (MPC) **YEAR: 2022-2023** **SEMESTER: V** **PAPER : V11(B)**

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
	3rd week	4	**Unit-1: Chromatography** -Introduction and classification Principle, Classification of chromatographic methods	Differences between R_f values.	Lecture	4							
	4th week	4	. Nature of adsorbents, eluents, Rfvalues, factors affecting Rfvalues		Demonstration	3			Audio visual quiz	1			
Dec	1st week	4	**Unit-2: TLC and paper chromatography** 1. Thin layer chromatography: Principle, Experimental procedure, preparation of plates, adsorbents and solvents,	Applications of TLC	Power point	4							
	2nd week	4	Development of chromatogram, detection of spots, applications and advantages. 2. Paper Chromatography: Principle, Experimental procedure, choice of paper and solvents,		Digital class	3			Assign ment	1			
	3rd week	4	various modes of development- ascending, descending, radial and two dimensional, applications		Demonstration	4							

	4th week	4	Unit -3: Column chromatography 1 Column chromatography: Principle, classification, Experimental procedure, stationary and mobile phases		Power point Mid1	3 1							
	1st week	4	, development of the Chromatogram, applications.		Lecture	4							
	2nd week	4	2 HPLC: Basic principles, instrumentation block diagram and applications	Types of HPLC	Lecture	3			Student seminar	1			
Jan	3rd week	4	Unit -4: Spectrophotometry Principle, Instrumentation: Single beam and double beam spectrometer, Beer- Lambert's law- Derivation and deviations from Beer-Lambert's law,	Uses of spectrophotometry.	Power point	3			Assignment	1			
	4th week	4	applications of Beer- Lambert's law-Quantitative determination ofFe^{+2}, $Mn^{+2}$and Pb^{+}		Power point	4							
	1st week	4	**Unit -5: Atomic spectroscopy** Types, atomizer, atomic absorption	Instrumentation	Lecture Mid2	3 1							
	2nd week	4	and emission and applications		Demonstration	4							
Feb	3rd week	4	Revision		Mind mapping	4							
	4th week	4	Revision		Question and answer method	2			Pre final	2			

SIGNATURE OF THE LECTURER

SIGNATURE OF THE HEAD OF THE DEPARTMENT

SIGNATURE OF THE PRINCIPAL