## SVRK GOVERNMENT DEGREE COLLEGE :: NIDADAVOLE TABLE - A - CURRICULAR PLAN - LECTURER WISE

NAME OF THE LECTURER DEPARTMENT

: GT. RAHUL. : CHEMISTRY

CLASS: III B.SC (B2c) YEAR: 2022-2023

SEMESTER: V PAPER : V1(B)

	MONTH & WEEK						TATER: VI(B)							
		MOUNTH & WEEK AND		INPUT	CURRICULAR ACTIVITY				CO-CURRICULAR ACTIVITIY					
SERIAL			ADDITIONAL INPUT (VALUE ADDITION	ACTIVITY	HOURS ALLOTED	WHETHER	IF NOT, ALTERNATIV E DATE	ACTIVITY	HOURS	WHETHER	IF NOT, LTERNATIV E DATE	REMARKS		
1	2	3	4	5	6							Ŧ		
	3rd week		Unit-1: Quantitative analysis-1	3	0	7	8	9	10	11	12	13	14	
	ord week	4	A brief introduction to analytical methods in chemistry.	Analysis, types of analysis	Lecture .	4		-						
	4th week		<ol> <li>Principles of volumetric analysis, concentration terms- Molarity, Molality, Normality, v/v, w/v, ppm and ppb, preparing solutions- Standard solution, primary standards and secondary standards.</li> </ol>		Demonstration	3			Audio visual quiz	1				
	1st week	4	3. Description and use of common laboratory apparatus- volumetric flask, burette, pipette, beakers, measuring cylinders		Power point	4								
Dec	2nd week	4	Unit-2: Quantitative analysis-2  1. Principles of volumetric analysis: Theories of acid-base (including study of acid-base titration curves).	Conductometri c, Potentiometric titrations	Digital class	3			Assign ment	1				
	3rd week	4	redox, complex metric, iodometric and precipitation titrations-choice of indicators for the saturations.		Demonstration	4			10 11			=		
	4th week	4	Principles of gravimetric analysis: precipitation, coagulation, peptization, co precipitation, post precipitation, digestion, filtration, and washing of		Power point	3								
			precipitate, drying and ignition.		Mid1	1								

Jan	1st week	4	Unit-3: Treatment of analytical data Types of errors- Relative and absolute, significant figures and its importance, accuracy - methods of expressing accuracy,	Applications of significant figures	Lecture	4					
	2nd week	4	errors- Determinate and indeterminate and minimization of errors, precision-methods of expressing precision, standard deviation and confidence interval.		Lecture	3		Student	1		
	3rd week	4	Unit-4: separation techniques  1. Solvent Extraction: Introduction, principle, techniques, factors affecting solvent extraction	Applications of solvent extraction	Power point	3	Α	ssignm	1		
	4th week	4	, Batch extraction, continuous extraction and counter current extraction. Synergism. Application- Determination of Iron (III).		Power point	4					
Feb	1st week	4	2. Ion Exchange method: Introduction, action of ion exchange resins, applications.		Lecture Mid2	3					
	2nd week	4	UNIT-5: Analysis of water Determination of dissolved solids, total hardness of water	BOD	Demonstration	4					
	3rd week	4	Turbidity, alkalinity, Dissolved oxygen, COD		Power point	3		udent minar			
	4th week	4	determination of chloride using Mohr's method		Demonstration	4					
Mar	1st week	4	Revision		Mind mapping	4					
	2nd 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