



S.P.MANDALI'S RAMNARAIN RUIA
AUTONOMOUS COLLEGE

DEPARTMENT OF CHEMISTRY

F.Y. B. Sc. VSC CHEMISTRY PRACTICAL
Semester I

(A.Y. 2024-2025)

VSC EXPERIMENTS FOR SEMESTER - I (Chemical calculation)

Expt. No.	Experiment Title	No. of Hrs
1.	Preparation of standard solutions.	60 hours
2.	To determine the valence factor of KMnO_4 by titrating with oxalic acid.	
3.	To determine the Strength of commercially available samples of HCl.	
4.	Determination of the strength of the supplied sodium hydroxide solution, using solution of a primary standard for acid base titration	
5.	To determine the percentage composition of a mixture ($\text{BaSO}_4 + \text{NH}_4\text{Cl}$) gravimetrically.	
6.	Determination of Cu(II) ions by titrating against standardized sodium thiosulphate, iodometrically.	
7.	Volumetric estimation of nitrite in the given sodium nitrite solution using KMnO_4	
8.	To determine the percentage composition of ZnCO_3 and ZnO in the given mixture gravimetrically.	
9.	Estimation of Fe(II) ions by titrating against $\text{K}_2\text{Cr}_2\text{O}_7$ using an internal indicator.	
10.	Estimation of Zn by complexometric titrations using EDTA.	

Modality of assesemnt
Vocational Skill Course

Sr. No.	Number of Credits	Total Marks	Internal Assessment (Marks)	Internal Assessment (Pattern)	Semester End Examination (Marks)	Semester End Examination (Pattern)	Duration of Sem End Exam
Practical	2	50	NA	-	50	-	4Hr