DEPARTMENT OF CHEMISTRY

SRM Institute of Science and Technology
B.Tech(2020-2021)

SEMESTER-I

18CYB101J-CHEMISTRY LAB

LIST OF EXPERIMENTS

1. Determination of the amount of sodium carbonate and sodium hydroxide in a mixture by titration.

2. Determination of strength of an acid by conductometry.

3. Determination of hardness (Ca^{2+}) of water using EDTA – complexometric method.

4. Determination of ferrous ion using Potassium dichromate by potentiometric titration.

5. Estimation of amount of chloride content of a water sample.

6. Determination of molecular weight of polymer by viscosity average method.

7. Determination of the strength of a mixture of acetic acid and hydrochloric acid by conductometry.

8. Determination of strength of an acid using pH meter.

DEPARTMENT OF CHEMISTRY
COLLEGE OF ENGINEERING AND TECHNOLOGY
SRM Institute of Science and Technology
Chemistry Lab[Virtual] - Lesson Plan

Academic Year: 2020-21   **Semester   : I**

Total Weeks Available: 10   **Total Hours[As per virtual Class Time table]: 15 Hours**

S.No Course Code	Course Name	Experiment Details Chemistry	Week	Course Category			Work schedule for two hours				
	18CYB101J				BS	Basic Sciences	3	1	2	5	
1.		Introduction	I								
2.		Determination of the amount of sodium carbonate and sodium hydroxide in a mixture by titration.	II								
3.		Determination of strength of an acid by conductometry.	III	**Virtual session [60 min]**			**Practice session* [30min]**				
4.		Determination of hardness (Ca^{2+}) of water using EDTA – complexometric method.	IV								
5.		Determination of ferrous ion using Potassium dichromate by potentiometric titration.	V								
6.		Estimation of amount of chloride content of a water sample.	VI								
7.		Determination of molecular weight of polymer by viscosity average method.	VII								
8.		Determination of the strength of a mixture of acetic acid and hydrochloric acid by conductometry.	VIII								
9.		Determination of strength of an acid using pH meter.	IX								
10.		Viva - Voce	X								

Model Practical exam: **9/12/2020 [V day order /Wed]**

University Practical exam: **23/12/2020 [V day order /Wed]**

* **Practice session –The students shall be asked to do calculations by giving model observation valuesfor each experiment.**