



DEPARTMENT OF CHEMISTRY

SYLLABUS – Chemistry Lab.

Name of Subject	Applied Chemistry	Subject Code	0020121(CH)
Semester	1 st and 2 nd	Board of Studies	Chemistry
Maximum Marks	20	Minimum Marks	12
Lecture Periods/Week	Tutorial Periods/Week	Practical Periods/week	Credits
-	-	2	1

List of Experiments:

Experiment 1

To determine the percentage composition of a mixture of Sodium Hydroxide and Sodium Chloride.

Experiment 2

To determine the amount of Sodium Carbonate in the given mixture of Sodium Carbonate and Sodium Bicarbonate.

Experiment 3

Redox titration using Potassium Permanganate and Potassium Dichromate as oxidizing agent.

Experiment 4

To determine the Carbonate Bicarbonate contents in irrigation water.

Experiment 5

Argentometric titration by Volhard's method and of Mohr's method.

Experiment 6

Complexometric titrations Ca & Mg.

Experiment 7

Determination of Calorific Value of fuel by Bomb Calorimeter.

Experiment 8

Determination of Flash Point and Fire Point of lubricant by Pensky Martin apparatus.

Experiment 9

Determination of Iron in Iron ore by Spectrophotometer.

Experiment 10

Estimation of Nickel by Dimethylglyoxime.

Experiment 11

To determine the relative viscosity of the given liquid at room temperature.

Experiment 12

To determine the surface tension of the given liquid at room temperature.

Text Books

1. A textbook on Experiments and Calculations in Engineering Chemistry by S. S. Dara, S. Chan Publications, New Delhi.

Reference Books

1. Vogel's Textbook of Quantitative Chemical Analysis (Latest ed.), Revised by G. H. Jeffery, J. Bassett, J. Mendham & R. C. Denney.