



## DEPARTMENT OF CHEMISTRY

### SYLLABUS – Environment & Ecology Lab.

Name of Subject	Environment & Ecology	Subject Code	0020222(CH)
Semester	1 <sup>st</sup> and 2 <sup>nd</sup>	Board of Studies	Chemistry
Maximum Marks	<b>20</b>	Minimum Marks	<b>12</b>
Lecture Periods/Week	Tutorial Periods/Week	Practical Periods/week	Credits
-	-	2	1

#### List of Experiments:

##### Experiment 1

Determination of free CO<sub>2</sub> in a given sample of H<sub>2</sub>O.

##### Experiment 2

To determine the acidity of given sample of water.

##### Experiment 3

To determine acid value of given oil sample.

##### Experiment 4

Determination of temporary hardness of water (Hahner's Method).

##### Experiment 5

Determination of Dissolve Oxygen present in a water sample.

##### Experiment 6

Determination of Chemical Oxygen Demand in waste water sample.

##### Experiment 7

Determination of Biological Oxygen Demand in waste water sample.

##### Experiment 8

Estimation of Chloride in a water sample by Volhard's method.

##### Experiment 9

Measurement of pH of given water sample.

##### Experiment 10

Measurement of Turbidity of given water sample by Nephelo Turbidity Meter.

#### 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.