

<b>5<sup>th</sup> Semester</b>	<b>RCI5C202</b>	<b>WATER AND WASTE WATER ENGINEERING LAB</b>	<b>L-T-P 0-0-3</b>	<b>2 Credits</b>
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### WATER SUPPLY AND SANITARY ENGINEERING LAB

#### ***LIST OF EXPERIMENTS:***

##### ***1. Analysis of water Quality Parameter***

- a) Measurement of pH, Electrical conductivity
- b) Determination of Turbidity of water samples.
- c) Determination of Chlorides in water.
- d) Determination of Iron and Fluoride in water.
- e) Determination of Acidity and Alkalinity of water.
- f) Determination of Sulphate in water.
- g) Determination of Hardness of water.
- h) Determination of Residual Chlorine of water.
- i) Determination of Total Dissolved Solids.
- j) Determination of optimum coagulant dosage.
- k) Microbiological culture analysis of bacterial samples
- l) MPN Test

##### ***2. Analysis of Waste Water Characteristics***

- a) Determination of Total Solids, Setttable Solids, Dissolved Solids, Suspended Solids and Volatile Solids.
- b) Determination of Dissolved Oxygen, COD and BOD.
- c) Determination of Ammonia–nitrogen and Nitrates.

#### **Digital Learning Resources:**

Course Name	Environmental Engineering 1
Course Link	<a href="https://ee1-nitk.vlabs.ac.in/">https://ee1-nitk.vlabs.ac.in/</a>
Course Instructor	NIT Suratkal,