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| **B. TECH 1st SEMESTER** | **T** | **P** | **C** |
| **-** | **3** | **2** |
| **ENGINEERING CHEMISTRY LAB** | | | |

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|  | Introduction to chemistry lab |
|  | Estimation of HCl using standard Na2CO3 |
| **Analysis of Water** | |
| 1 | Determination of Total hardness of water |
| 2 | Estimation of Ferric iron |
| 3 | Estimation of KMnO4 using standard H2C2O4 |
| 4 | Estimation of Copper (Iodometry) |
| 5 | Estimation of Dissolved Oxygen by Wrinkles Method |
| 6 | Determination of pH the of given water sample |
| 7 | Conductometric titration of strong acid **Vs** Strong base. |
| 8 | Potentiometric Titration of Strong Acid Vs Strong Base |
| 9 | Preparation of Phenol-Formaldehyde Resin |
| **Estimation of properties of Oil** | |
| 10 | Acid Number |
| 11 | Saponification value |

**List of Experiments**

**Student has to do Any Ten Experiments of the Following**

**MANUAL:**

1. Engineering Chemistry Lab Manual Prepared by Chemistry Faculty