

K. S. INSTITUTE OF TECHNOLOGY, BANGALORE-109

(AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI)

ENGINEERING CHEMISTRY LABORATORY

(Common to all branches)

SUB: Engineering Chemistry Laboratory

CODE:18CHEL16/26

This laboratory is catered to I year B.E. students of all the branches. The laboratory has very good facilities to provide good hands on experience to students in basic experiments of Chemistry including Chemical, volumetric, qualitative, quantitative, analytical, instrumental analysis . The department has very good infrastructure with a carpet area of 175 sq.m consisting of spacious laboratory. The laboratory is well equipped with modern amenities with exhausts.

Facilities available:

- Fumigation chamber.
- Hot Air Oven.
- Digital weighing balance.
- Hot plates.
- Electro magnetic stirrers.

Instrumental Analysis:

- Potentiometer used to estimation of F.A.S V/S $K_2Cr_2O_7$.
- Colorimeter used to estimation of percentage of copper.
- Conductometer used to estimate strength of Acid Mixture.
- pH-Meter used to estimate strength of Weak Acid.
- Viscometer used to estimate viscosity coefficient of liquid.
- Flame photometer used to estimate of strength of Na or K in given solution.

Volumetric Analysis:

- Estimation of Total Hardness in given water sample setup.
- Estimation of CaO in given Cement solution sample setup.
- Estimation of percentage of copper in Brass Solution setup.
- Estimation of percentage of Iron in Hematite ore solution setup.
- Estimation of C.O.D. in given water sample setup.
- Estimation of percentage of Chlorine in Bleaching powder solution.