

BACHELOR OF SCIENCE IN BIOTECHNOLOGY

SEMESTER – I

Laboratory Course-I

Paper Code: BTP-105

BTP105: Laboratory course- I: Basic Chemistry (Max. marks 80+20=100)

Students shall be introduced to pH meter, conductometer, colorimeter, spectrophotometer, microscopes etc.

Students should learn the following:-

1. Preparation of Molar & Normal solution
2. Preparation of buffers of pH range from 4 to 10.5
3. Acid-base titration using pH meter and conductometer
4. Determination of rate constant of an ester hydrolysis reaction
5. Titration of a mixture of acids by a base using pH meter.
6. Detection of elements in organic compound.
7. Identification of functional groups.
8. Preparation of organic solid derivatives.
9. Qualitative analysis for carbohydrates, protein and lipid.
10. Estimation of Inorganic and Organic Phosphates.

Teachers will supply printed detailed instructions, procedure of the experiments.
