

Code	Subject Title		Cr. Hrs	Semester
CHEM-102	Ch	emistry Lab-I (Physical Chemistry)	1	I
Year		Discipline		
1		Botany, Zoology, Chemistry-I, II		

- 1. Determination of percentage composition by surface tension, viscosity and refractive index method.
- 2. Determination of heat of solution for solids and liquids.
- 3. Quantitative measurement of colored salt of KMnO₄, K₂Cr₂O₇ in colorimeter.
- 4. Study of first order reaction:
 - a) Study of hydrolysis of methylacetate
 - b) Measurement of rate constant
- 5. Measurement of molecular weight by; Depression of freezing point.
- 6. Determination of transition temperature of Na₂SO₄ 10 H₂O ; Na₂CO₃ 10 H₂O; MgSO₄ 7 H₂O

Recommended Books:

- 1. Crocleford H.D., H.W.Biard, F.W. Getzen & J.W. Nowell, "Laboratory Manual of Physical Chemistry", 2nd Ed., John Wiley & Sons London.
- 2. Das R.C. and B. Behera, "Experimental Physical Chemistry", Tata McGraw Hill Publishing Company Limited.
- **3.** Levitt B.P., "Findlay's Practical Physical Chemistry", 9th Ed., Longman Group Limited.