

Course Type	Course Code	Name of the Course	L	T	P	Credits
DSC	NCHC102	Unit Operations Lab	0	0	2	1

Course Objective

To ensure that the students get an overview of the various core aspects of the discipline of chemical engineering by performing experiments, based on fundamental knowledge

Learning Outcomes

The students will get trained in performing the experiments which will get covered and through this, their theoretical knowledge on introductory concepts of chemical engineering will get reinforced.

Unit No.	Topics to be Covered	Practical Hours
1	Study of the Reynolds number in different flow conditions	04
2	Verification of the Bernoulli's theorem experimentally	02
3	Measurement of discharge through venturimeter, orificemeter and rotameter	04
4	Analysis of particle size distribution	02
5	Determination of thermal conductivity of liquid	02
6	Determination of thermal conductivity of a metal rod	02
7	Calibration of refractometer	02
8	Calibration of various temperature sensors	02
9	Study of reaction kinetics study in a batch reactor with equimolar feed	04
10	Determination of activation energy in an isothermal batch reactor	04

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