

SRI VENKATESWARA COLLEGE OF ENGINEERING

COURSE DELIVERY PLAN - LABORATORY

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Department of Biotechnology

LP: BT22412

B.E/B. Tech/M.E/M.Tech: Biotechnology

Rev. No: 00

Regulation: 2022

UG Specialisation

: Biotechnology

Sub. Code / Sub. Name : BT22412/ Chemical Engineering Laboratory

Date: 20.01.2025

ession No*	List of Experiments	
CYCLE-I		
1	Determination of flow rate and coefficient of discharge using Orificemeter	
2	Determination of flow rate and coefficient of discharge using Venturimeter	
3	Determination of flow rate of fluids using Rotameter	
4	Determination of minimum fluidization velocity in Fluidized bed reactors	
5	Determination of Pressure drop in Packed bed reactors	
6	Determination of Filter cake and Medium resistance in Filtration using Leaf Filter	
	CYCLE-II	
7	Determination of heat-transfer coefficient in Double-Pipe Heat Exchanger	
8	Determination of heat-transfer coefficient in Shell and Tube Heat Exchanger	
9	Determination of heat-transfer coefficient in Helical Coil Heat Exchanger	
10	Verification of Rayleigh"s Equation using Simple Distillation	
11	Extraction of biological compounds using Soxhlet Apparatus	
12	Adsorption of dyes using activated charcoal	

^{*} Session Duration: 200 minutes



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TEXT BOOKS

1. McCabe W.L, Smith J.C and Harriot P, "Unit Operations of Chemical Engineering". 7th Edition McGraw Hill, 2014.

	Prepared by	Approved by
Signature	a. Know Septy in	S
Name	Dr. G. Karthigadevi / Mr. Vimal Arasan. A	Dr. Nakkeeran. E
Designation	Assistant Professor	HOD
Date	20.01.2025	20.01.2025
Remarks *: -		
Remarks *: -		

^{*} If the same lesson plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD

