

SRI VENKATESWARA COLLEGE OF ENGINEERING

COURSE DELIVERY PLAN - LABORATORY

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	LP: BT18511	
B.Tech	: Biotechnology	Rev. No: 00
Regulation	: 2018A	
PG Specialisation	: NA	Date:10.07.2023
Sub. Code / Sub. Nam		

Session No*	List of Experiments			
CYCLE-I				
1	Precision of an experiment using absorption spectroscopy.			
2	Validating the Lambert-Beer's law using KMn0 ₄ Solution.			
3	Finding the pKa value of 4-nitrophenol using absorption spectroscopy			
4	Limits of detection of using aluminums alizarin complex			
5	Estimation of Thiamine b Flourimetry			
6	Limits of detection of absorption using aluminium alizarin complex			
CYCLE-II				
7	Chromatography analysis of amino acids using TLC			
8	Chromatography analysis of plant pigments using Column chromatography			
9	Quantitative analysis of Protein by Dye binding method			
10	Quantitative analysis of Starch by Anthrone method			
11	Quantitative estimation of DNA by Diphenylamine method			
12	Quantitative estimation of RNA by Orcinol Method			
ontent beyond sy	Habus (if any): HPLC handling and trouble shooting.			
	Demonstration on HPLC and GC-MS.			

* Session Duration: 200 minutes

FT/GN/68A/02/30.06.16



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Sub. Code / Sub. Name: BT18511 & Instrumental Method of Analysis Laboratory

TEXT BOOKS

- 1. Braun, R.D. Introduction to Instrumental Analysis. 2nd Ed., B. S. Publications., 2014.
- Skoog. D. A., James H.F. & Stanley, R. C. Principles of Instrumental Analysis. 6th Ed., Thomson & Brooks cole., 2007.
- 3. Gray N. Instrumental Methods of Analysis, CBS Publishers, 2011.

REFERENCE BOOKS

- 1. Mark F. V. Chromatography: Principles and Instrumentation. Wiley Publication, 2016.
- 2. Sharma, B. K. Instrumental Methods of Chemical Analysis.24th Ed, Goel Publishing House, 2005.
- 3. PO.Shivaraja S. Y.M. Laboratory Manual for Practical Biochemistry. 2nd Ed., Jaypee Publication, 2012

	Prepared by	Approved by		
Signature	of Anope.	A TOLON'S		
Name	Dr M Nareshkumar	Dr E Nakkeeran		
Designation	Assistant Professor	Professor & HOD		
Date	10.07.2023	10.07.2023		
Remarks*: Course delivery plan is prepared as per the 2018A regulation with updates from previous year syllabus.				

