



Department of Biotechnology		LP: BT22211
B.E/ B.Tech /M.E/M.Tech : B. Tech	Regulation: 2022	Rev. No: 00
PG Specialisation : -		Date: 10/01/2025
Sub. Code / Sub. Name : BT22211/ Bioorganic Chemistry Laboratory		

Session No*	List of Experiments
CYCLE-I	
1.	Synthesis of aspirin
2.	Synthesis of acetaminophen
3.	Preparation of oleic acid from olive oil
4.	Preparation of alpha d- glucopyranose pentaacetate using perchloric acid
5.	Hydrolysis of sucrose
CYCLE-II	
6.	Hydrolysis of an ester
7.	Isolation of lycopene from tomato paste
8.	Isolation of casein from milk
9.	Isolation of curcumin from turmeric
10.	Extraction of caffeine
11.	Analysis of vitamin C
12.	Analysis of phytochemicals
Content beyond syllabus (if any): Determination of antioxidant activity	



* Session Duration: 200 minutes



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TEXT BOOKS / REFERENCE BOOKS:

1. Francis, A. Carey, "Organic Chemistry", 7th Edition, Tata McGraw Hill, 2009.
2. Page, M. I. and Andrew Williams, "Organic and Bioorganic Mechanisms", 1st Edition, Pearson, 2010.
3. Fummis, B.S., Hannaford, A.J., Smith, P.W.G and Tatchell, A.R., "Vogel's Text Book of Practical Organic Chemistry", Pearson India, 2003.

	Prepared by	Approved by
Signature		
Name	Dr. S. Pandi Prabha	Dr. E. Nakkeeran
Designation	Professor, Biotechnology	HOD, Biotechnology
Date	10/01/2025	10/01/2025
Remarks *: The same lab plan is followed in the subsequent semester/year.		
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* If the same lab plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD