



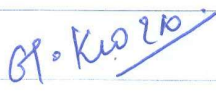

Department of Biotechnology		LP: BT18611
B.E/B.Tech/M.E/M.Tech : Biotechnology		Rev. No: 00
Regulation:2018A		Date: 29/12/23
PG Specialisation : NA		
Sub. Code / Sub. Name : BT18611/ Bioprocess Laboratory		

Session No*	List of Experiments
CYCLE-I	
1	Enzyme activity – Effect of Temperature
2	Enzyme activity – Effect of pH
3	Enzyme Activity – Effect of Enzyme Concentration
4	Enzyme specificity on its activity
5	Enzyme kinetics – Determination of Michaelis-Menten parameters
6	Enzyme inhibition kinetics
CYCLE-II	
7	Enzyme immobilization – Gel entrapment
8	Sterilization kinetics of batch fermenter.
9	Growth of Bacteria – Estimation of Biomass, Calculation of Specific Growth Rate, Yield Coefficient
9	Growth of Yeast – Estimation of Biomass, Calculation of Specific Growth Rate, Yield Coefficient
10	Medium optimization – Plackett Burman Design
11	Medium optimization – Response Surface Methodology
Content beyond syllabus (if any):NIL	

* Session Duration: 150 minutes



Sub. Code / Sub. Name: BT18611/ Bioprocess Laboratory

	Prepared by	Approved by
Signature		
Name	Dr G Karthigadevi	Dr E Nakkeeran
Designation	Assistant Professor	Professor & HoD
Date	29/12/23	29/12/23
Remarks*: NA		
Remarks*: NA		

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

