Life Sciences for Engineers Lab

Course Code	19BS1351	Year	II	Semester	Ι
Course Category	Basic Sciences	Branch	CSE	Course Type	Practical
Credits	2	L-T-P	2-0-0	Prerequisites	-
Continuous Internal Evaluation :	30	Semester End Evaluation:	70	Total Marks:	100

Course Outcomes						
Upon successful completion of the course, the student will be able to:						
CO1	Apply principles of biology to create tangible and economically viable engineering goods.	L3				
CO2	Employ knowledge and expertise bio-engineering field.	L2				
CO3	Improve the living standards of societies.	L3				
CO4	Gain knowledge in genetic engineering.	L1				
CO5	Implement the knowledge in genetic engineering in industrial field.	L3				

Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correlations (3:Substantial, 2: Moderate, 1:Slight)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3						2							
CO2	3						2							
CO3	3						2							
CO4	3						2							
CO5	3						2							

Course Content						
Expt.No.1	Microscopy					
Expt.No.2	Dissect & mount different parts of plants using Microscope	CO1, CO3				
Expt.No.3	Estimation of Proteins by using Biuret method					
Expt.No.4	Estimation of enzyme activity.	CO1, CO2				
Expt.No.5	Estimation of chlorophyll content in some selected plants.	CO1, CO3				
Expt.No.6	Nitrogen Cycle: Estimation of Nitrates /Nitrites in soil by using Spectrophotometer	CO2, CO3				
Expt.No.7	Mendal's laws	CO1, CO4				
Expt.No.8	Solve Problems based on Mapping.	CO2, CO4				
Learning Resources						
Text Books	 Biology: A global approach, N. A. Campbell, J. B. Reece, L. Urry, M. L. Cain and S. A. Wasserman, Tenth Edition, 2015, Pearson. Biology for Engineers, Arthur T Johnson, 2011, CRC press. 	Α.				