Complimentary Course Outcome

Environmental Biotechnology

SL No.	Paper Name	Course outcome
1.	BTY1C01- EBT 1	• At the end of the course the students will, have an understanding on fundamentals of ecology • They will be aware of interactions of organisms with the environment and human influences on the ecosystem • They will have awareness on pollution control strategies and its advantages
2.	BTY1C01- EBT Practicals 1	• Students will be capable of isolation and enumeration of microorganisms from air, water and soil • Students will be able to analyse the purity of portable water by different techniques like BOD and COD
3.	BTY2C02- EBT 2	• At the end of the course the students will, obtain knowledge on application of biotechnology in waste water treatment process • They will be aware of using microorganisms in waste water treatment
4.	BTY2C02- EBT Practicals 2	• At the end of the course the students will, able perform water quality analysis like presumptive test, confirm test, enumeration of microorganisms • They will be able to perform aerobic treatment of municipal sewage
5.	BTY3C03 – EBT 3	• The students will have a detailed understanding on the bioremediation concept, methods of bioremediation, phytoremediation and xenobiotic biodegradation and fate of xenobiotic degradation • They will also be aware of Solid waste management techniques

6.	BTY3C03 – EBT Practicals 3	• The students will have knowledge on how to isolate microorganisms from soil to obtain phenol degrading and pesticide degrading micro-organism. • Students will also capable of conducting experiments on Assessment of microbial growth
7.	BTY4C04- EBT 4	• The students will have a knowledge on techniques and advantages of ○ Production of bio-energy from waste ○ Production of biomass from waste ○ Production of bioplastics and their environmental impact
8.	BTY4C04- EBT Practicals 4	• The students will be capable of performing techniques for biogas production • They will also have practical knowledge on production of cellulose and ethanol from lignocelluloisic waste