F.Y.B. Sc.
SEMESTER II
COURSE TITLE: ENVIRONMENTAL STUDIES
Course code : ENV-S2P1 2CR24
THEORY [CREDITS - 02]

ENVIRONMENTAL STUDIES		
After successfully completing this course, students will be able to: • Basic knowledge and concept of causes, effect and control of different type of environmental pollution. • Aware students about problems of environmental pollution, its impact on human and ecosystem and control measures.		
Module 1	Environmental Pollution	**[10L]**
Learning Objective: To study about environment and ecosystems.		
Learning Outcomes: Aware students about problems of environmental pollution, its impact on human and ecosystem and control measures.		
1.1	• Definition • Causes, Effects and Control measures of: Air Pollution, Water Pollution, Soil Pollution, Marine Pollution, Noise Pollution, Thermal Pollution, Nuclear Hazards • Role of Individuals in Pollution Prevention • Disaster Management: • Floods, Earthquakes, Cyclones, Landslides	**[10L]**
Module 2	**Ecosystem**	**[10L]**
Learning Objective To study an Environment and Ecosystem.		
Learning Outcomes: • Become familiar with the cyclical flow of energy, water and nutrient through ecosystems. • Have an enhanced knowledge of an Ecosystem. • Be able to Illustrate the Ecosystem Energetic.		
2.1	• Food Chains, Food Webs and Ecologial Pyramids • Introduction, Types, Charateristic Features, Structure and	**[10L]**

	Functions: • Forest Ecosystem • Grassland Ecosystem • Desert Ecosystem and Aquatic Ecosystems (Ponds, Lakes, Streams Rivers, Estuaries and Oceans)	

References:

1. Odum, E.P. 1971. Fundamentals of Ecology. W.B. Sounders. Reference Books:
2. Groom. B. & Jenkins. M. 2000.Global Biodiversity: Earth's Living Resources in the 21st Century. World Conservation Press, Cambridge, UK.
3. Gurevitch, J., Scheiner, S. M., & Fox, G. A. 2002. The Ecology of Plants. Sinauer associates incorporated.
4. Loreau, M. & Inchausti, P. 2002. Biodiversity and Ecosystem functioning: Synthesis and Perspectives. Oxford University Press, Oxford, UK.
5. Pandit, M.K., White, S.M.& Pocock, M.J.O. 2014. The contrasting effects of genome size, chromosome number and ploidy level on plant invasiveness: a global analysis. New Phytologist 203: 697-703

Mapping of CLOs and PSOs

Course Learning Outcomes	**Programme Outcomes**					
	1	**2**	**3**	**4**	**5**	**6**
Be able to Illustrate the Ecosystem Energetic.		√	√			
Have an enhanced knowledge of an ecosystem.	√					
Become familiar with the cyclical flow of energy, water and nutrient through ecosystems.	√					
Basic knowledge and concept of causes, effect and control of different type of environmental pollution.	√					