

### SARDAR PATEL UNIVERSITY

#### Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2021-2022

# Integrated Bachelor and Master Programmes in (A Group) Semester - II

Course Code	IS02AENV51	Title of the Course	Environmental Studies
Total Credits of the Course	02	Hours per Week	02
Course Objectives:	students' understa oriented, interdisc 1. Appreci sciences and their 2. Appreci environmental issu 3. Reflect	anding of compliplinary perspectate concepts and application in eate the ethical, cues and the links critically about t	or supplements other majors to facilitate ex environmental issues from a problemtive. Students: I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological and physical environmental problem solving. I methods from ecological environmental enviro

Cours	Course Content		
Unit	Description	Weightage*	
1.	Natural Resources and their Conservation  2.1 Forest Resources: Uses and overexploitation of forests and consequences of deforestation.  2.2 Water Resources: Use and consequences of over-utilization, concept of rain water harvesting and watershed management, water conflicts.  2.3 Food Resources: Sources of food, food problems- Indian scenario, Impacts of modern agriculture on environment (Fertilizer - pesticide problem, water logging and salinity), Organic farming.  2.4 Energy Resources: Renewable and Non-Renewable energy sources, Growing energy needs and alternate energy sources.  2.5 Land Resources: Global land use patterns, Soil erosion, Desertification, Wasteland Reclamation.	50%	
2.	Environment and Human health 2.1 Human population growth and Family Welfare Programs. 2.2 Common diseases: Air borne diseases (Chicken Pox, Tuberculosis,Influenza, Meningitis), Water and food borne diseases (Cholera,Diarrhoea, Hepatitis, Malaria, Salmonellosis). 2.3 HIV/AIDS: Symptoms, causes, effect and control measures. 2.4 Drug addiction: Causes, symptoms and prevention; Drug abuse in India. 2.5 Role of IT in environment and human health.	50%	





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Teaching- Learning Methodology	Classroom interactions Multimedia presentation Chart/model presentation Student seminar and unit test, quiz etc Question bank circulation Students assignments Student counselling for any problem of subject understanding Student-Teacher interaction on social media platform for any query (MS)
	Student-Teacher interaction on social media platform for any query (MS team, Google classroom, email, etc)

Evalu	Evaluation Pattern	
Sr. No.	Details of the Evaluation	Weightage
1	UNIVERSITY EXAMINATION(B.Sc.)	100%

Cou	Course Outcomes: The course will empower the undergraduate students by:	
1.	Gaining in-depth knowledge on natural processes that sustain life and govern economy	
2.	Predicting the consequences of human actions on the web of life, global economy and quality of human life.	
3.	Acquiring values and attitudes towards understanding complex environmental economic-social challenges, and participating actively in solving current environmental problems and preventing the future ones.	
4.	Adopting sustainability as a practice in life, society and industry	

Sugges	Suggested References:	
Sr. No.	References	
1.	Odum, E. P. (2005). Fundamentals of ecology. Cengage Learning India Pvt. Ltd., New Delhi. 5thedition.	
2.	Singh, J. S., Singh, S. P., Gupta, S. (2006). Ecology Environment and Resource Conservation. Anamaya Publications, New Delhi, India.	





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3.	Sharma, P. D. Ecology and Environment. Rastogi Publications, Meerut, India. 13th edition.
4.	Erach Bharucha ,Textbook for Environmental Studies
5.	Park's Text book of preventive and social medicine(25 <sup>th</sup> edition)

On-line resources to be used if available as refe
On-line Resources
Shodhganga
https://www.khanacademy.org/science/environmental

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