



GITAM INSTITUTE OF MANAGEMENT (GIM)
Gandhi Institute of Technology and Management (GITAM)
(Declared as Deemed to be University u/s 3 of UGC Act. 1956)
Visakhapatnam – 45.

Course Code: MBG 202	Course Title: Environmental Science	
Semester: 1V	Course Type: Foundation Compulsory	Credits: 3
Home Programme(s): B.Com (AAT)	Batch/Academic Year: 2020-23	
Course Leader:		

Course description and learning objectives

Environmental Science is a fundamental course to bring the awareness and the importance of environmental science and environmental studies cannot be disputed. The need for sustainable development is a key to the future of mankind. Continuing problems of pollution, loss of forests, solid waste disposal, degradation of environment, issues like economic productivity and national security, Global warming, the depletion of ozone layer and loss of biodiversity have made everyone aware of environmental issues. It is clear that no citizen of the earth can afford to be ignorant of environment issues.

Learning objectives:

- Creating environmental consciousness among students
- Enabling them to identify potential environmental hazards and to provide management solutions to such problems.

On successful completion of this course, students will be able to:

	Course Outcomes	Assessment
CO1	Ability infers the structure of the environment and its characteristics.	A1, A2, & A4
CO2	Memorizing the structure and function of an ecosystem, recognizes different water-conserving technologies, and memorizes different types of laws associated with the environment and interpreting them in the present scenario.	A1, A2, A3 & A4
CO3	Memorizing the concept of Biodiversity, value, and threats. Different methods of conservational techniques.	A2, A3 & A4
CO4	Illustrating the different types of pollution and controlling methods. Adopting and inter these techniques in different ways. Recognizing the change in population growth with population studies and knowing the laws of family planning, HIV, Women, and Child welfare.	A2, A3 & A4

Course outline and indicative content

Unit I: 9 Sessions

Definition, Scope and importance, need for public awareness. Natural resources and associated problems

Unit II: 9 Sessions

Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession. Environmental Ethics, issues and Environmental Laws.

Unit III: 9 Sessions

Values and threats of Biodiversity. Conservation of biodiversity

Unit IV: 9 Sessions

Definition, Cause, effects and control measures of different types of pollution. Disaster management. Population Studies. Women and Child welfare, HIV.

Assessment methods (100% Internal Assessment)

Task	Task type	Task mode	Weightage (%)
A1: Mid Exam	Individual	Written	20
A2: Coursera / Any Other Online Course minimum of 20 hours, as per the student's choice.	Individual	Course Completion Certificate, Presentations / Q&A/Viva	10
A3: Project	Group	Presentations & Report	10
A4: End-term	Individual	Written (short/long)	60

Mapping COs-Blooms levels- Assessment Tools

Knowledge dimension / Cognitive dimension	L1. Remember	L2. Understand	L3. Apply	L4. Analyze	L5. Evaluate	L6. Create
Factual Knowledge	CO1 (A1, A2, A4)	CO1, CO2 (A1, A2, A4)				
Conceptual Knowledge				CO2, CO3 (A2, A3, & A4)	CO2, CO4 (A2, A3, & A4)	
Procedural Knowledge			CO2, CO4 (A2)		CO2, CO4 (A2)	
Meta Cognitive Knowledge						

Learning and teaching activities

Activity based approach is adopted throughout the course i.e., research, survey, and presentations.

- Power Point Presentations
- Situational Analysis
- E-resources

Teaching and learning resources

E-Resources, E-Books, Websites, E-Library. Soft copies of cases etc., will be uploaded onto the G-learn. However, students will not be limited to these materials and should explore other sources on their own

CO PO Mapping

This is to map the level of relevance of the Course Outcome (CO) with Programme Outcome (PO).

0= No Relevance; 1= Low Relevance; 2= Medium Relevance; 3= High Relevance

CO PO Mapping	PO1	PO2	PO3	PO4	PO5	PO6	Sum
	CO1	2	0	2	2	2	0
CO2	2	0	1	3	2	0	8
CO3	3	0	1	2	2	0	8

CO4	3	0	2	2	2	0	9
Target Level Max.	10	0	6	9	8	0	33

Program Outcomes

1	Ability to understand the business problem with their knowledge in different functional areas of management
2	Ability to work with structured, semi – structured and unstructured data.
3	Ability to use tools such as Microsoft Excel, SPSS, R, Weka and Tableau to solve business analytics problem
4	Ability to apply analytics techniques to analyze and interpret the data.
5	Ability to perform descriptive, predictive and prescriptive analytics.
6	Have necessary skills and understanding to take up advanced topics in the area of analytics and thus enhance their career.