Gyanmanjari Innovative University

Syllabus
Gyanmanjari Institute of Management Studies
Semester-1 (BBA)

Subject: Environmental Studies– BBA2XX11203

Type of course: Value Added Course (VAC)

Prerequisite: Students must have a basic understanding of environmental issues and sustainability concepts.

Rationale: This course enables students to understand environmental challenges, sustainability practices, resource conservation, and the impact of human activities on the environment. It develops awareness and practical understanding of environmental protection, sustainable development, and responsible citizenship.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks		Total Marks
CI	T	P	C	SEE	CCE	
2	0	0	2	50	50	100

Legends: CI-Class Room Instructions; T – Tutorial; P - Practical; C – Credit; SEE - Semester End Evaluation; LWA - Lab Work Assessment; V – Viva voce; CCE-Continuous and Comprehensive Evaluation; ALA- Active Learning Activities.

Course Content:

Sr. No	Course Content	Hrs.	% Weightage
1	**Introduction to Environmental Studies** **Theory Topics** • Meaning, Nature and Scope of Environmental Studies • Importance of Environmental Awareness • Ecosystem and Biodiversity • Natural Resources and Conservation • Environmental Pollution and its Types **Practical 1: Ecosystem Component Identification Activity** Students will identify and list the biotic (living) and abiotic (non-living) components present in a small ecosystem such as a garden, classroom	**03T** **03P**	**20**

surroundings, or park. They will explain the relationship between these components in brief.

Practical 2: Biodiversity Conservation Strategy Design
Students will assume the role of environmental consultants and prepare a biodiversity conservation plan for a hypothetical forest, wetland, or grassland ecosystem. The plan should include threats, conservation objectives, and practical protection measures.

Practical 3: Pollution Source Identification and Classification
Students will identify different pollution sources in their surrounding area and classify them into air, water, soil, or noise pollution categories. They will also mention the possible effects of each type of pollution on the environment and human health.

Examination Style:

Sr. No	Evaluation Methods	SEE	CCE
1	**ALA 1: Environmental Audit of Campus or Office Area** Students will conduct an environmental audit of the classroom, campus, office area, or nearby business premises to identify environmental issues and suggest practical measures for improving sustainability. The final report must be submitted in PDF format on the GMIU Web Portal.		10
2	**Environmental Awareness Infographic:** Students will create an infographic on any one topic related to ecosystem, biodiversity, natural resource conservation, or environmental pollution. The infographic should present key information, environmental significance, and awareness messages in a clear and visually appealing format.	10	
	Total	10	10

2	**Natural Resources and Sustainable Development** **Theory Topics:** • Renewable and Non-Renewable Resources • Water Conservation and Rainwater Harvesting • Forest Resources and Wildlife Protection • Sustainable Development Goals (SDGs) • Climate Change and Global Warming	**03T 03P**	**20**

Practical 1 – Water Conservation Practices Observation
Students will identify and record different water conservation methods used at home or in the classroom environment. They will write a short note on the importance of saving water in daily life.

Practical 2 – Forest and Wildlife Conservation Awareness Report
Students will prepare a short report on the importance of forests and wildlife in maintaining ecological balance. They will also list simple measures for forest and wildlife protection.

Practical 3– Sustainable Development Goals (SDGs) Identification Activity
Students will study the Sustainable Development Goals and identify any five goals related to environmental protection. They will explain each selected goal in 2–3 lines with its environmental significance.

Examination Style:

Sr. No	Evaluation Methods	SEE	CCE
1	**ALA 2: Sustainable Lifestyle Report** Students will prepare a report describing eco-friendly practices they can adopt in daily life to reduce environmental impact and upload the final file (PDF) on the GMIU Web Portal.		10
2	**SDG Awareness Poster Design:** Students will design a poster on any one Sustainable Development Goal (SDG) related to environmental protection. The poster should highlight the goal's importance, key challenges, and practical actions that can contribute to sustainable development. The final poster should be submitted in digital format.	10	
	Total	10	10

3	**Environmental Pollution and Waste Management** **Theory Topics** • Air, Water, Soil and Noise Pollution • Solid Waste Management • E-Waste and Plastic Waste Challenges • Environmental Protection Laws • Role of Government and NGOs in Environmental Protection	**03T 03P**	**20**

Practical 1: Waste Segregation Chart Preparation
Students will prepare a chart classifying everyday waste items into biodegradable, non-biodegradable, recyclable, e-waste, and plastic waste categories. They will explain the correct disposal method for each category.

Practical 2: Poster Creation on Plastic Waste Reduction
Students will individually design a classroom poster promoting reduction of single-use plastic and proper waste disposal habits. The activity will focus on awareness and environmental responsibility.

Practical 3: NGO and Government Initiative Review
Students will identify one environmental campaign conducted by the government or an NGO and write a short review report of its objectives, activities, and impact on environmental protection.

Examination Style:

Sr. No	Evaluation Methods	SEE	CCE
1	**ALA 3: Pollution Control Study:** Students will evaluate pollution control measures implemented in their city or locality and upload the PDF on the GMIU Web Portal.		10
2	**Waste Segregation Awareness Chart:** Students will prepare a chart illustrating the segregation of biodegradable, non-biodegradable, plastic, and e-waste materials. The chart should include examples of each category and highlight the importance of proper waste management for environmental protection.	10	
	Total	10	10

4	**Human Population and Environmental Ethics** **Theory Topics** • Population Growth and Environmental Impact • Urbanization and Environmental Issues • Environmental Ethics and Social Responsibility • Green Practices in Business and Society • Role of Technology in Environmental Sustainability	**03T 03P**	**20**

Practical 1: Population Growth Impact Analysis
Students will prepare a short analysis on how increasing population affects resources such as water, food, housing, and transportation. They will connect population growth with environmental problems faced in daily life.

Practical 2: Environmental Ethics Reflection Writing
Students will write a short reflection on their personal environmental responsibilities such as saving water, avoiding plastic, and maintaining cleanliness. The activity will help students understand environmental ethics in daily life.

Practical 3: Technology for Environmental Sustainability Case Study
Students will identify one modern technology such as solar energy, electric vehicles, rainwater harvesting systems, or recycling technology and explain how it supports environmental sustainability.

Practical 4: Slogan and Awareness Message Writing Activity
Students will create environmental awareness slogans and short messages related to social responsibility, green living, and sustainable development. The activity will promote creative understanding of environmental ethics.

Examination Style:

Sr. No	Evaluation Methods	ESE	CCE
1	**Activity: 1** **Tree Plantation Participation:** Students will analyze ethical responsibilities of individuals and businesses toward environmental protection. Upload the PDF on the GMIU Web Portal.		10
2	**Green Practices Observation Report:** Students will identify and document any three green practices adopted by a business, institution, or community in their locality. They should briefly explain how these practices contribute to environmental sustainability and social responsibility. The findings should be submitted in a short report.	10	
	Total	10	10

<table>
<tr>
<td>5</td>
<td>
Environmental Policies and Global Issues
Theory Topics

Environmental Policies in India
International Environmental Agreements
Disaster Management and Environmental Safety
Role of International Organizations in Environmental Protection
Future Challenges in Sustainability

Practical 1: Disaster Management Preparedness Plan
Students will prepare an individual disaster safety plan for situations such as earthquakes, floods, or fires. The activity will include safety measures, emergency actions, and awareness of environmental risks.

Practical 2: Role of International Organizations Report
Students will identify organizations such as the United Nations Environment Programme or World Health Organization and write a short report on their contribution to environmental protection and sustainability.

Practical 3: Future Sustainability Challenges Brainstorming Activity
Students will list possible future environmental challenges such as water scarcity, climate change, pollution, or energy crises and explain their possible impacts on society and the environment.

Examination Style:
<table>
<tr><th>Sr. No</th><th>Evaluation Methods</th><th>SEE</th><th>CCE</th></tr>
<tr><td>1</td><td>Activity: 2
Digital Blog on Global Environmental Initiatives:
Students research and write a digital blog highlighting recent environmental initiatives and policy measures undertaken by India and other countries to address global environmental challenges. Convert the completed blog into PDF and upload it to the GMIU Web Portal.</td><td></td><td>10</td></tr>
<tr><td>2</td><td>Environmental Policy Awareness Presentation:
Students will prepare a short presentation on any one environmental policy of India or international environmental agreement. The presentation should highlight its objectives, significance, and contribution to environmental protection and sustainable development. The final presentation should be submitted in PDF format.</td><td>10</td><td></td></tr>
<tr><td></td><td>Total</td><td>10</td><td>10</td></tr>
</table>
</td>
<td>03T
03P</td>
<td>25</td>
</tr>
</table>

Suggested Specification table:

Distribution of Marks (Revised Bloom's Taxonomy)						
Level	Remembrance (R)	Understanding (U)	Application (A)	Analyze (N)	Evaluate (E)	Create (C)
Weightage %	10%	20%	30%	20%	10%	10%

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Course Outcome:

After learning the course, the students should be able to:	
CO1	Understand the basic concepts of environmental studies, ecosystems, biodiversity, and natural resources.
CO2	Identify environmental issues such as pollution, waste generation, climate change, and their impact on society and businesses.
CO3	Apply sustainable practices and resource conservation methods in daily life, organizations, and communities.
CO4	Analyze environmental ethics, green practices, and the role of technology in environmental sustainability.
CO 5	Evaluate environmental policies, global environmental issues, disaster management practices, and sustainability challenges.

Instructional Method:

The course delivery method will depend upon the requirement of content and needs of students.

The teacher, in addition to conventional teaching methods by black board, may also use any tools such as demonstration, role play, Quiz, brainstorming, MOOCs etc.

From the content 10% topics are suggested for flipped mode instruction.

Students will use supplementary resources such as online videos, NPTEL/SWAYAM videos, e-courses, Virtual Laboratory.

The internal evaluation will be done on the basis of the Active Learning Assignment.

Practical/Viva examination will be conducted at the end of semester for evaluation of performance of students in the laboratory.

Reference Books:

[1] Bharucha, E. (2021). *Textbook of Environmental Studies for Undergraduate Courses* (3rd ed.). Universities Press.

[2] Cunningham, W. P., & Cunningham, M. A. (2020). *Environmental Science: A Global Concern* (15th ed.). McGraw Hill Education.

[3] Rajagopalan, R. (2019). *Environmental Studies: From Crisis to Cure* (4th ed.). Oxford University Press.

[4] Kaushik, A., & Kaushik, C. P. (2022). *Perspectives in Environmental Studies* (7th ed.). New Age International Publishers.

[5] Odum, E. P., & Barrett, G. W. (2018). *Fundamentals of Ecology* (5th ed.). Cengage Learning.

[6] Miller, G. T., & Spoolman, S. (2021). *Living in the Environment: Principles, Connections, and Solutions* (20th ed.). Cengage Learning.

[7] Agarwal, K. C. (2020). *Environmental Biology*. Nidhi Publishers.

Suggested Assessment Guidelines:

SEE	Topic	Criteria	Marks	Description
1	**Environmental Awareness Infographic**	Content Accuracy and Relevance	5	The infographic presents accurate and relevant information on the selected environmental topic. It effectively highlights key concepts, environmental significance, and awareness messages.
		Visual Design and Communication	5	The infographic is visually organized, creative, and easy to understand. Information is communicated clearly through appropriate use of text, visuals, and layout.
2	**SDG Awareness Poster Design**	Content Relevance and Understanding	5	The poster accurately explains the selected Sustainable Development Goal and demonstrates understanding of its environmental significance and objectives.
		Creativity and Communication Effectiveness	5	The information is presented in a visually appealing and well-organized manner, effectively communicating the key message and practical actions.

3	**Waste Segregation Awareness Chart**	Classification and Content Accuracy	5	The chart correctly categorizes waste types with appropriate examples and demonstrates understanding of waste segregation principles.
		Organization and Awareness Value	5	The chart is neat, well-structured, and effectively highlights the importance of proper waste management and environmental protection.
4	**Green Practices Observation Report**	Identification of Green Practices	5	he student identifies relevant green practices and explains their contribution to environmental sustainability and social responsibility.
		Analysis and Report Presentation	5	The report provides clear observations and logical explanations, presented in a concise and organized format.
5	**Environmental Policy Awareness Presentation**	Understanding of Policy or Agreement	5	The presentation clearly explains the objectives, features, and significance of the selected environmental policy or international agreement.
		Presentation Quality and Communication	5	The content is logically organized, visually clear, and effectively communicates the role of the policy in environmental protection and sustainable development.