

FATIMA COLLEGE (AUTONOMOUS), MADURAI.

SEMESTER -III

For those who joined in 2020 onwards

COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDITS
21G3EE	Environmental Studies	Lecture	1	1

COURSE DESCRIPTION:

This course intends to emphasize the importance of environmental science and environmental studies and natural resources. This also highlights the need for sustainable development to the future of mankind.

COURSE OBJECTIVE:

It enables the students to maintain ecological balance by providing a basic knowledge of environmental system and processes. It also helps them to understand the interconnectedness between human and the natural world.

COURSE OUTCOME:

CO1: Gives information regarding the changes that takes place due to anthropogenic factors and helps gain skills of various environmental systems

CO2: This provides the basic knowledge of the Natural resources, environmental and social concerns

CO3: Makes them to be aware on eco system and bio diversity that are possibly a threat to the natural biological environment and act accordingly, also enlighten them on such public issues.

CO4: Gives awareness towards all sorts of pollution and measures to control it

CO5: It deals with the most important issues like safe and clean drinking water, hygienic living conditions, clean and fresh air, healthy food for man and for development, also emphasises about the importance of the ozone layer depletion, greenhouse gas effect.

UNIT I

[3 Hrs]

MULTI-DISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES

Multi-Disciplinary Nature Of Environmental Studies , Types of Environment, Structure of earth, Environmental education and Training, Environmental studies: It's importance, Scope of Environmental science, Need for public awareness, Environmental movement

UNIT II - NATURAL RESOURCES

[3 Hrs]

Classification of Natural Resources, Types of resources, Forest Resources-Forest, Forests in India, Deforestation, Afforestation, Conservation of Forests, Forest policy in India, Forest and tribal people. Energy Resources, Renewable energy, non renewable Energy Resources, Conservation of Natural Resources:Role of an Individual.

UNIT III -ECOSYSTEM AND BIODIVERSITY

[3 Hrs]

Structure of an ecosystem, Functions of an Ecosystem, Ecosystem processes, Levels of bio-diversity, Threats to bio diversity, Endangered species of India, Conservation of Bio-Diversity.

UNIT IV--ENVIRONMENTAL POLLUTION

[3

Hrs]

Pollutants, Types of pollution, Solid waste management, Waste disposal methods, Disaster management, Role of an individual in prevention of pollution.

UNIT-V-SOCIAL ISSUESAND ENVIRONMENT.

[3

Hrs]

From Unsustainable to Sustainable Development, Water Conservation, Environmental ethics, Climate change, Global Warming, Ozone Layer Depletion, Acid Rain, Environmental Legislations in India.

TEXT BOOK

Dr.Radha, “ Environmental Studies” Prasanna Publishers & Distributers.

COURSE CONTENTS & LECTURE SCHEDULE:

Module No.	Topic	No. of Lectures	Teaching Pedagogy
1.1	Multi-Disciplinary Nature Of Environmental Studies Types of Environment.	1	Lecture
1.2	Structure of earth, Environmental education and Training, Environmental studies: It's importance.	1	Lecture
1.3	Scope of Environmental science, Need for public awareness, Environmental movement.	1	Lecture & Discussion
UNIT -2 NATURAL RESOURCES			
2.1	Classification of Natural Resources, Types of resources.	1	Lecture
2.2	Forest Resources-Forest, Forests in India, Deforestation, Afforestation, Conservation of Forests, Forest policy in India, Forest and tribal people.	1	Lecture
2.3	Energy Resources, Renewable energy, non renewable Energy Resources, Conservation of Natural Resources:Role of an Individual.	1	Lecture & Discussion
UNIT -3 ECOSYSTEM AND BIODIVERSITY			
3.1	Structure of an ecosystem, Functions of an Ecosystem, Ecosystem	1	Lecture

	processes.		
3.2	Levels of bio-diversity, Threats to bio diversity.	1	Lecture
3.3	Endangered species of India, Conservation of Bio-Diversity.	1	Lecture & Discussion
UNIT -4 ENVIRONMENTAL POLLUTION			
4.1	Pollutants, Types of pollution	1	Lecture & Discussion
4.2	Solid waste management, Waste disposal methods.	1	Discussion
4.3	Disaster management, Role of an individual in prevention of pollution.	1	Discussion
UNIT -5 SOCIAL ISSUESAND ENVIRONMENT.			
5.1	From Unsustainable to Sustainable Development, Water Conservation.	1	Discussion
5.2	Environmental ethics, Climate change, Global Warming, Ozone Layer Depletion, Acid Rain.	1	Discussion
5.3	Environmental Legislations in India.	1	Discussion

Levels	C1	C2	C3	Total Scholastic Marks	Non Scholastic Marks C4	CIA Total	% of Assessment
	Test 1	Test 2	Individual Assignment				
	15Mks.	15Mks	5Mks.	35 Mks.	5 Mks.	40Mks.	

K2	15	-	-	15	-	15	37.5%
K2	-	15	-	15	-	15	37.5%
K3	-	-	5	5	-	5	12.5 %
Non Scholastic	-	-	-		5	5	12.5 %
Total	15	15	5	35	5	40	100 %

CIA

Scholastic 35

Non
Scholastic 5

40

EVALUATION PATTERN

NON - SCHOLASTIC			MARKS			
C1	C2	C3	C4	CIA	ESE	Total
15	15	5	5	40	60	100

C1 – Test 1

C2 – Test 2

C3-Individual Assignment

C4 – Non - Scholastic