

## NILASAILAINSTITUTEOFSCIENCE&TECHNOLOGY SERGARH-756060, BALASORE (ODISHA) (ApprovedbyAICTE&affiliatedtoSCTE&VT,Odisha)



## **LESSONPLAN**

## **SUBJECT:Th5.ENVIRONMENTALSTUDIES**

## **CHAPTERWISEDISTRIBUTIONOFPERIODS**

SI.No.	Name of the chapter as per the Syllabus	No. of Periods as per the Syllabus	No. of periods actually needed
1	The Multidisciplinary nature of environmental studies	4	2
2	NaturalResources	10	14
3	Systems	8	8
4	Biodiversity and it's Conservation	8	8
5	EnvironmentalPollution	12	17
6	Socialissues and the Environment	10	17
7	Humanpopulationandtheenvironment	8	9
	TotalPeriod:	60	75

Discipline: ALLBRANCH	Semester: 3rd	Name of the Teaching Faculty: Mr. SAROJ KUMAR PATRA
Week	Class Day	Theory/Practical Topics
1 <sup>st</sup>	1 <sup>st</sup>	The Multidisciplinary nature of environmental studies: Definition, scope and importance.
	2 <sup>nd</sup>	Need for public awareness.
	3 <sup>rd</sup>	Natural Resources: Renewable and non renewable resources
	4 <sup>th</sup>	Natural resources and associated problems.
	5 <sup>th</sup>	Forest resources: Use and over-exploitation, deforestation, case studies,
<b>2</b> <sup>nd</sup>	1 <sup>st</sup>	Timber extraction mining, dams and their effects on forests and tribal people
	2 <sup>nd</sup>	Waterresources:Useandover-utilizationofsurface and ground water, floods, drought,
	3 <sup>rd</sup>	conflictsoverwater,dam'sbenefitsand problems
	4 <sup>th</sup>	conflictsoverwater,dam'sbenefitsand problems
	5 <sup>th</sup>	environmentaleffectsofextractingandusingmineral resources
<b>3</b> <sup>rd</sup>	<b>1</b> <sup>st</sup>	FoodResources:Worldfoodproblems,changes caused by agriculture and over grazing
	2 <sup>nd</sup>	effects of moderna griculture, fertilizers-pesticides problems, waterlogging, salinity,
	3 <sup>rd</sup>	Energy Resources: Growing energy need, renewableandnon-renewableenergysources,
	4 <sup>th</sup>	useofalternate energy sources,case studies.
	5 <sup>th</sup>	LandResources:Landasaresource,landdegradation, man induces landslides, soil erosion, and desertification

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<b>4</b> <sup>th</sup>	1 <sup>st</sup>	Roleofindividualinconservationofnaturalresources. Equitable use of resources for sustainable life styles.
	2 <sup>nd</sup>	Systems: Conceptofanecosystem.Structureandfunctionofanecosystem.
	3 <sup>rd</sup>	Producers,consumers,decomposers.
	4 <sup>th</sup>	Ecological succession.
	5 <sup>th</sup>	Foodchains, foodwebs and ecological pyramids.
	1 <sup>st</sup>	Introduction, types, characteristic features, structure and function of the following eco system
<b>5</b> <sup>th</sup>	2 <sup>nd</sup>	Forest ecosystem:
	3 <sup>rd</sup>	Aquatic ecosystems (ponds, streams, lakes, rivers, oceans)
	4 <sup>th</sup>	Energy flow in the eco systems
	5 <sup>th</sup>	Biodiversity and it's Conservation: Introduction-Definition:
	1 <sup>st</sup>	genetics, species andecosystem diversity.
<b>6</b> <sup>th</sup>	2 <sup>nd</sup>	BiogeographicallyclassificationofIndia.
	3 <sup>rd</sup>	Valueofbiodiversity:consumptiveuse,productiveuse
	4 <sup>th</sup>	socialethical,aestheticandoptin values.
	5 <sup>th</sup>	Biodiversityatglobal, national and local level.

<b>7</b> <sup>th</sup>	1 <sup>st</sup>	Threatstobiodiversity: Habitatsloss, poaching of wild life
	2 <sup>nd</sup>	manwildlifeconflicts.
	3 <sup>rd</sup>	EnvironmentalPollution: DefinitionCauses,effects andcontrolmeasures of different pollutions
	4 <sup>th</sup>	Air pollution.
	5 <sup>th</sup>	Waterpollution
	1 <sup>st</sup>	Soilpollution
<b>8</b> <sup>th</sup>	2 <sup>nd</sup>	Marinepollution
	3 <sup>rd</sup>	Noise pollution.
	4 <sup>th</sup>	Thermal pollution
	5 <sup>th</sup>	Nuclear hazards.
	1 <sup>st</sup>	SolidwasteManagement:Causes
<b>9</b> <sup>th</sup>	2 <sup>nd</sup>	effects
	3 <sup>rd</sup>	controlmeasuresofurbanandindustrial wastes.
	4 <sup>th</sup>	Roleofanindividualinpreventionofpollution
	5 <sup>th</sup>	Disaster management

		Floods
<b>10</b> <sup>th</sup>	1 <sup>st</sup>	Floods
	2 <sup>nd</sup>	earth quake
	3 <sup>rd</sup>	cyclone
	4 <sup>th</sup>	landslides.
	5 <sup>th</sup>	SocialissuesandtheEnvironment
	1 <sup>st</sup>	Formunsustainabletosustainabledevelopment.
<b>11</b> <sup>th</sup>	2 <sup>nd</sup>	Urbanproblemsrelated to energy.
	3 <sup>rd</sup>	Water conservation
	4 <sup>th</sup>	rainwaterharvesting,
	5 <sup>th</sup>	watershed management.
	1 <sup>st</sup>	Resettlementandrehabilitationofpeople
12 <sup>th</sup>	2 <sup>nd</sup>	itsproblemsand concern.
	3 <sup>rd</sup>	Environmentalethics:issueandpossible solutions.
	4 <sup>th</sup>	Climatechange,
	5 <sup>th</sup>	globalwarming,

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<b>13</b> <sup>th</sup>	1 <sup>st</sup>	acid rain,
	2 <sup>nd</sup>	ozonelayer depletion
	3 <sup>rd</sup>	nuclearaccidentsandholocaust,case studies
	4 <sup>th</sup>	Air(preventionandcontrolofpollution)Act
	5 <sup>th</sup>	Water(preventionandcontrolofpollution)Act
	1 <sup>st</sup>	Publicawareness.
14 <sup>th</sup>	2 <sup>nd</sup>	Humanpopulationandtheenvironment:
	3 <sup>rd</sup>	Populationgrowthandvariationamong nations.
	4 <sup>th</sup>	Populationexplosion-familywelfareprogram
	5 <sup>th</sup>	Environmentandhumanhealth.
	1 <sup>st</sup>	Value education
15 <sup>th</sup>	2 <sup>nd</sup>	Humanrights.
	3 <sup>rd</sup>	Humanrights.
	4 <sup>th</sup>	Roleofinformationtechnologyinenvironmentandhumanhealth
	5 <sup>th</sup>	Roleofinformationtechnologyinenvironmentandhumanhealth