

UTKALMANI GOPABANDHU INSTITUTE OF
ENGINEERING,ROURKELA



LESSON PLAN

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

UTKALMANI GOPABANDHU INSTITUTE OF ENGINEERING,ROURKELA



LESSON PLAN

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT CODE: Th.5

NAME: ENVIRONMENTAL STUDIES
BRANCH: ELECTRONICS & TELECOMMUNICATION

SEMESTER: DIPLOMA -III

PERIODS PER WEEK: 4

NAME OF THE FACULTY: MANINI MONALISA PRADHAN

NO OF CLASSES ALLOTTED PER WEEK ONLINE: 4 (15/09/2022 to 22/12/2022)

Week/Date	Lecture	Topic to be covered	Remarks
1 st week 15/09/2022 To 17/09/2022	1 st	Definition of multidisciplinary nature of environmental studies	
	2 nd	Scope of environmental studies	
	3 rd	Important of environmental studies, Need for public awareness	
2 nd week 19/09/2022 To 24/09/2022	1 st	Forest resources use and over exploitation, deforestation	
	2 nd	Case studies of timber extraction	
	3 rd	Mining ,Dams and their effects on forests and tribal people	
	4 th	Use and over utilization of surface and ground water, floods, ground water , conflict over water	
3 rd week 26/09/2022 To 01/10/2022	1 st	Mineral resources use and exploitation.	
	2 nd	Food resources, world food problem, changes caused by agriculture.	

UTKALMANI GOPABANDHU INSTITUTE OF ENGINEERING, ROURKELA



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT CODE: Th.5

NAME: ENVIRONMENTAL STUDIES
BRANCH: ELECTRONICS & TELECOMMUNICATION

SEMESTER: DIPLOMA -III

PERIODS PER WEEK: 4

NAME OF THE FACULTY: MANINI MONALISA PRADHAN

NO OF CLASSES ALLOTTED PER WEEK ONLINE: 4 (15/09/2022 to 22/12/2022)

Week/Date	Lecture	Topic to be covered	Remarks
	3 rd	Energy Resources, Growing energy needs renewable resources.	
	4 th	Land resources, land as resources, land degradation.	
4 th week 03/10/2022 To 08/10/2022	1 st	Soil erosion, Desertification of individual natural resources.	03/10/2022 TO 08/10/2022(holiday)Need four extra classes for adjustment
	2 nd	Equitable use of resources for sustainable lifestyle	
	3 rd	Concept of Ecosystem	
	4 th	Structure and function of Ecosystem	
5 th week 10/10/2022 To 15/10/2022	1 st	Producer , consumers, decomposers	
	2 nd	Energy flow in Ecosystem, ecological succession	
	3 rd	Food chain ,food web, ecological pyramids	
	4 th	Introduction type characteristic feature of Ecosystem	
6 th week 17/10/2022 To 22/10/2022	1 st	Forest Ecosystem	
	2 nd	Aquatic ecosystems	
	3 rd	Biodiversity, Definition of genetic and species	

UTKALMANI GOPABANDHU INSTITUTE OF ENGINEERING, ROURKELA



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT CODE: Th.5

NAME: ENVIRONMENTAL STUDIES
BRANCH: ELECTRONICS & TELECOMMUNICATION

SEMESTER: DIPLOMA -III

PERIODS PER WEEK: 4

NAME OF THE FACULTY: MANINI MONALISA PRADHAN

NO OF CLASSES ALLOTTED PER WEEK: 4(15/09/2022 to 22/12/2022)

Week/Date	Lecture	Topic to be covered	Remarks
	4 th	Ecosystems diversity	
7 th week 24/10/2022 To 29/10/2022	1 st	Biographically classification of India	24/10/2022(holiday)Need one extra class for adjustment
	2 nd	Value of biodiversity consumptive use and productive	
	3 rd	Biodiversity at global, national and local level	
	4 th	The arts to biodiversity, Habitat loss, poaching of wild life.	
8 th week 31/10/2022 To 05/11/2022	1 st	Air pollution	
	2 nd	Water pollution	
	3 rd	Soil pollution	
	4 th	Marine pollution	
9 th week 07/11/2022 To 12/11/2022	1 st	Noise pollution	8/11/2022(holiday)Need one extra class for adjustment
	2 nd	Thermal pollution	
	3 rd	Nuclear Hazards	
	4 th	Solid waste management cause and effect	
10 th week 14/11/2022 To 19/11/2022	1 st	Control measures of individual waste	

UTKALMANI GOPABANDHU INSTITUTE OF ENGINEERING, ROURKELA



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT CODE: Th.5

NAME: ENVIRONMENTAL STUDIES
BRANCH: ELECTRONICS & TELECOMMUNICATION

SEMESTER: DIPLOMA -III

PERIODS PER WEEK: 4

NAME OF THE FACULTY: MANINI MONALISA PRADHAN

NO OF CLASSES ALLOTTED PER WEEK ONLINE: 4 (15/09/2022 to 22/12/2022)

Week/Date	Lecture	Topic to be covered	Remarks
	2 nd	Role of individual prevention of pollution	
	3 rd	Disaster management, food ,earth quake	
	4 th	Cyclone and landslides	
11 th week 21/11/2022 To 26/11/2022	1 st	Unsustainable to sustainable development	
	2 nd	Urban problem related to energy	
	3 rd	Water conservation and rain water harvesting	
	4 th	Water shed management	
12 th week 28/11/2022 To 03/12//2022	1 st	Resettlement of people	
	2 nd	Rehabilitation of people	
	3 rd	Environmental Ethics	
	4 th	Climate change	
13 th week 05/12/2022 To 10/12//2022	1 st	global warming	
	2 nd	Acid rain	
	3 rd	ozone layer depletion,	
	4 th	Nuclear acid rain	
14th week 12/12/2022 to 17/12/2022	1 st	Air Act	
	2 nd	Water Act	
	3 rd	Population growth	
	4 th	population explosion	
15 th Week 19/12/2022 to 24/12/2022	1 st	Environment and human health	
	2 nd	Environment and human health continue	
	3 rd	Human rights Value of education and role of information technology in human environment, Value of education and role of information technology in human health	