

Dicipline:	Mechanical	Semester: 3rd	Name of the Teaching Faculty: Dibyajyoti Nayak	
Subject:	Environment studies	No of Days/Week Class Allotted: 4	Semester From date: 15/09/22 To date: 21/01/23	No. of Weeks:
WEEK	Class Day	Theory Topics		
1	1st	Definition of environment, scope & it's importance		
	2nd	Need for public awareness		
	3rd	Forest resources: Use & over exploitation		
	4th	Deforestation, case studies, timber extraction		
	5th	Dams & their effects on forest & tribal people.		
2	1st	Water resources: - Use & over utilization of surface & ground water.		
	2nd	Dams, benefits & problems.		
	3rd	Mineral resources: - Use & exploitations		
	4th	Environmental effects of using mineral resources.		
	5th			
3	1st	Food resources: World food problems, changes caused by agriculture		
	2nd	Fertilizer, pesticides problems, water logging, salinity.		
	3rd	Energy resources: - Growing energy need		
	4th	Renewable & non-renewable energy		
	5th			

Theory Topics

WEEK	Class Day	Theory Topics
A	1st	Land resources :- land slides, soil erosion & desertification
	2nd	Role of individual in conservation of natural resources
	3rd	Equitable use of resources for sustainable lifestyle.
	4th	Concept of an eco-system
	5th	
B	1st	Structure & function of an eco-system
	2nd	Producer, consumer & decomposers
	3rd	Energy flow in eco-systems.
	4th	Ecological successions
	5th	
	1st	Food chains, food web, ecological pyramids
	2nd	Introduction, types, characteristics, features of ecosystem -
	3rd	Forest ecosystem details
	4th	Aquatic ecosystem details
	5th	

Discipline:	Mechanical	Semester:	IInd	Name of the Teaching Faculty:	Debyajyoti Nayak
Subject:	Environmental Studies	No of Days/Week Class Allotted:	1	Semester From date:	15/09/22 To date 21/01/23
				No. of Weeks:	

WEEK	Class Day	Theory Topics
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7	1st	Introduction to eco-system diversity
	2nd	Genetic species
	3rd	Bio-geographically classification of India
	4th	Value of biodiversity
	5th	

8	1st	Consumptive use, productive use, social ethics
	2nd	Biodiversity at global, national & local level
	3rd	Threats of biodiversity, habitat loss
	4th	Man & wildlife conflicts
	5th	

9	1st	Air pollution
	2nd	Water pollution
	3rd	Soil pollution
	4th	Marine pollution
	5th	

WEEK	Class Day	Theory Topics
10	1st	Noise pollution
	2nd	Thermal pollution
	3rd	Nuclear hazards
	4th	Solid waste managements :- causes & effects
	5th	
11	1st	Urban & industrial wastes
	2nd	Role of individual in prevention of pollution
	3rd	Disaster management
	4th	Unsustainable & sustainable development
	5th	
12	1st	Urban problem related to energy
	2nd	Water conservation, rain water harvesting
	3rd	Resettlement & rehabilitation of people
	4th	Environmental ethics
	5th	

ARYAN SCHOOL OF ENGINEERING & TECHNOLOGY

Discipline: Mech.	Semester: 3rd	Name of the Teaching Faculty: Dibyajyoti Nayak
Subject: Environmental Studies	No of Days/Week Class Allotted: 1	Semester From date: 15/09/22 To date: 21.01.23
		No. of Weeks:

WEEK	Class Day	Theory Topics
13	1st	Climate change, global warming.
	2nd	Acid rain, ozone layer depletion
	3rd	Air pollution act
	4th	Water pollution act.
	5th	Public awareness
14	1st	Population growth
	2nd	Population explosion
	3rd	Environment & human health
	4th	Human rights.
	5th	
15	1st	value education
	2nd	Role of I.T in human health
	3rd	public ethics.
	4th	Role of I.T in environment.
	5th	Satyajam Acharya