

Discipline MECHANICAL,CIVIL ELECTRICAL,ETC	Semester :3rd	Name of the Teaching Faculty: ER. MANJIT KUMAR BEHERA
Subject: ENVIRONMENTAL STUDIES	No. of days/per week class allotted:05	Semester From date : 01/08/2023 to 30/11/2023
Week	Class Day	Theory Topics
1 ST	1 ST	Multidisciplinary nature of environmental studies- Introduction,
	2 ND	Definition , Scope and importance
	3 RD	Need for public awareness
	4 TH	Doubt clearing
	5 TH	Unit-2- Natural resources- Introduction , definition, Associated problems
2 ND	1 ST	Forest Resources- Use & over exploitation, deforestation, Case studies
	2 ND	Timber extraction, mining, dams and their effects on forests and tribal people
	3 RD	Water resources- use & over utilization of surface & ground water, floods, drought
	4 TH	Conflicts over water, dams benefits and problems
	5 TH	Mineral resources- use & exploitation, environmental effects of extracting and using mineral resources
3 RD	1 ST	Food resources- World food problem, Changes caused by agriculture & over grazing,
	2 ND	Effects of modern agriculture, fertilizers & pesticide problems, water logging & salinity
	3 RD	Energy resources- Growing energy need, Renewable & non- renewable energy source, use of alternate energy sources
	4 TH	Case studies, Land resources- land as a resource, land degradation, man induces landslides,
	5 TH	Soil erosion, desertification
4 TH	1 ST	Role of individual in conservation of natural resources, Equitable use of resources for sustainable life styles
	2 ND	Unit-3- Ecosystem: concept of ecosystem, structure of ecosystem
	3 RD	Function of ecosystem, Producers, consumers,decomposers
	4 TH	Energy flow in eco system ,ecological succession
	5 TH	Food chain, food web, ecological pyramid
5 TH	1 ST	Forest ecosystem- definition, types, characteristics
	2 ND	Forest ecosystem- structure & function
	3 RD	Pond ecosystem
	4 TH	Stream ecosystem
	5 TH	Lake ecosystem
6 TH	1 ST	River ecosystem
	2 ND	Ocean ecosystem

	3 RD	Estuaries ecosystem
	4 TH	Unit -4- Biodiversity & its conservation: introduction, definition, genetics, species, and ecosystem diversity
	5 TH	Biogeographically classification of India
7 TH	1 ST	Value of biodiversity
	2 ND	Biodiversity at global level
	3 RD	Biodiversity at national level
	4 TH	Habitat loss, poaching of wild life
	5 TH	Man wildlife conflicts
8 TH	1 ST	Doubt clearing
	2 ND	Unit-5- Environmental pollution: introduction, definition
	3 RD	Air pollution
	4 TH	Control of air pollution
	5 TH	Water pollution
9 TH	1 ST	Control of water pollution
	2 ND	Soil pollution
	3 RD	Marine pollution
	4 TH	Noise pollution
	5 TH	Thermal pollution
10 TH	1 ST	Nuclear pollution
	2 ND	Solid waste management- causes, effect
	3 RD	Control measures
	4 TH	Waste management
	5 TH	Role of individual in prevention of pollution
11 TH	1 ST	Flood management
	2 ND	Earth quake magement
	3 RD	Cyclone management
	4 TH	Landslides management
	5 TH	Unit-6- Social issues & the environment: From unsustainable to sustainable development, urban problems related to energy.
12 TH	1 ST	Water conservation , rain water harvesting
	2 ND	Water shed management, resettlement and rehabilitation of people; its problem and concern
	3 RD	Environmental ethics: issue and possible solutions.
	4 TH	Climate change, global warming
	5 TH	Acid rain , ozone layer depletion,
13 TH	1 ST	Nuclear accidents and holocaust,
	2 ND	case studies
	3 RD	Air (prevention and control of pollution) Act
	4 TH	Water (prevention and control of pollution) Act
	5 TH	Public awareness
14 TH	1 ST	Doubt clearing
	2 ND	Unit 7- Human population and the Environment: population growth and variation among nations (introduction)
	3 RD	population growth and variation among nations
	4 TH	Population explosion, family welfare program
	5 TH	Environment and human health

15 TH	1 ST	Human rights
	2 ND	Value education
	3 RD	Role of information technology in environment and human health
	4 TH	Doubt clearing, revision
	5 TH	Revision and Previous year question discussion

Manjit Kumar Behara

Ami Behara.

H.O.D. Mechanical Deptt.
O.S.E., Berhampur


Principal
Orissa School of Engineering
Berhampur (Gm.)