

THS

GOVERNMENT POLYTECHNIC DHENKANAL

SUB : ENVIRONMENTAL STUDIES (TH-5)

LESSON PLAN FOR ACADEMIC SESSION 2024-25

Discipline : Mechanical Engineering	Semester : 3RD	Name of the faculty : Abinash Mishra
Subject : Environmental Studies (TH – 5)	No. of days /per week class allotted: 4 p / w	Academic Session – 2024-25
WEEK	PERIOD	TOPIC
1 st	1 st	Unit 1 : Introduction about Environmental studies.
	2 nd	Definition and scope of environment.
	3 rd	Importance of Environment.
	4 th	Need of public awareness.
2 nd	1 st	Unit 2 : Introduction of forest resources .
	2 nd	Use and exploitation of forest.
	3 rd	Deforestation ,timing, extracting ,mining.
	4 th	Dams and their effects on forest.
3 rd	1 st	Water resources ,uses and over utilization.
	2 nd	Surface and ground water resources.
	3 rd	Various conflict of water ,mineral resources.
	4 th	Food resources ,world food problem.
4 th	1 st	Energy resources, growing energy needs.
	2 nd	Renewable and non-renewable resources.
	3 rd	Land resources ,land degradation.
	4 th	Role of an individual in conservation of natural resources.
5 th	1 st	Equitable use of resources for sustainable lifestyle.
	2 nd	Unit 3 : Concept of ecosystem Structure, function of ecosystem.

	3 rd	Producers , consumers , decomposers.
	4 th	Energy flow in the ecosystem.
6 th	1 st	Ecological succession.
	2 nd	Food chain , food-web and ecological pyramid..
	3 rd	Various ecosystem with their definition.
	4 th	Forest ecosystem.
7 th	1 st	Different types ecosystem.
	2 nd	Aquatic system (pond, stream, estuaries lake).
	3 rd	Unit Test.
	4 th	Unit 4 : Introduction, definition : genetics, species , and ecosystem diversity.
	1 st	Biographically classification of India.
8 th	2 nd	Value of biodiversity consumptive use.
	3 rd	Productive use , social ethical aesthetic and opt in values.
	4 th	Biodiversity at global national and local level.
	1 st	Threats to biodiversity : Habitats loss.
9 th	2 nd	Threats to biodiversity : poaching of wildlife , man wildlife conflicts.
	3 rd	Unit 5 : Environmental pollution.
	4 th	Reasons of air pollution.
10 th	1st	Air Pollution , Water pollution.
	2 nd	Causes of water pollution.
	3 rd	Control of water pollution.
	4 th	Soil pollution and definition with reason.
11 th	1 st	Marine pollution with different reason.
	2 nd	Noise pollution and its effect.
	3 rd	Thermal pollution.

	4 th	Nuclear pollution details and remedies.
12 th	1 st	Role of individual in prevention of population.
	2 nd	Disaster management and earthquakes.
	3 rd	Unit 6 : Social issue and environment and urban problems.
	4 th	Water conservation.
13 th	1 st	Rain water harvesting.
	2 nd	Environmental ethics climate change.
	3 rd	Acid rain, ozone layer depletion.
	4 th	Water prevention act. Air prevention act. Different public awareness.
14 th	1 st	Unit 7 : Human Population.
	2 nd	Human population and their environment.
	3 rd	Population growth and variation among nation.
	4 th	Population explosion family welfare program.
15 th	1 st	Environment and human health.
	2 nd	Human rights, Role of information technology in environment
	3 rd	Value education.
	4 th	Role of information technology in human health.

Anish S
16/8/24
TEACHING FACULTY

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