


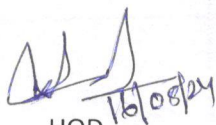
# GOVT. POLYTECHNIC, NUAPADA

## LESSON PLAN

<b>Discipline:</b> CSE	<b>Semester:</b> 3rd	<b>Name of the Teaching Faculty:</b> Sri Bibhuti Bhusan Dash
<b>Subject:</b> Environmental Studies	<b>No. of Class class allotted per week:</b> 4	<b>Semester from:</b> 01/07/2024 <b>No. of weeks:</b> 15 <b>Session:</b> 2024-25
<b>WEEK</b>	<b>DAY</b>	<b>THEORY TOPICS</b>
1st	1st	The Multidisciplinary nature of environmental studies: Definition, scope of environmental studies
	2nd	Importance of environmental studies.
	3rd	Need for public awareness (Cont..)
	4th	Need for public awareness.
2nd	1st	
	2nd	<b>Natural Resources:</b> Renewable and non- renewable resources:
	3rd	a) Natural resources and associated problems. Forest resources: Use and over-exploitation,
	4th	deforestation, case studies,
3rd	1st	Timber extraction mining, dams and their effects
	2nd	on forests and tribal people
	3rd	Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dam"s benefits and
	4th	problems
4th	1st	Mineral Resources: Use and exploitation, environmental effects of extracting and using
	2nd	mineral resources.
	3rd	Food Resources: World food problems, changes caused by agriculture and over grazing, effects of modern agriculture, fertilizers- pesticides
	4th	problems, water logging, salinity
5th	1st	Energy Resources: Growing energy need, renewable and non-renewable energy sources.
	2nd	use of alternate energy sources, case studies.
	3rd	Concept and Syntax of Methods.
	4th	Defining Methods.
6th	1st	Creating an Object.
	2nd	Accessing Class Members.
	3rd	Instance Data and Class Data.
	4th	Constructors.
7th	1st	Access specifiers, Access Modifiers, Access Control.
	2nd	String Builder and String Buffer
	3rd	Methods and Messages
	4th	Parameter Passing
8th	1st	Comparing and Identifying Objects
	2nd	Inheritance in Java.
	3rd	Use of Inheritance,Types of Inheritance.
	4th	Single Inheritance.

9th	1st	Multi-level Inheritance.
	2nd	Hierarchical Inheritance .
	3rd	Hybrid Inheritance.
	4th	Introduction to Polymorphism
10th	1st	Method Overloading
	2nd	Run time Polymorphism
	3rd	Method Overriding
	4th	Introduction to packages, Java API Packages
11th	1st	Using System Packages
	2nd	Naming Convention
	3rd	Creating Packages
	4th	Accessing a Package
12th	1st	Using a Package
	2nd	Adding a Class to Package
	3rd	Hiding Classes
	4th	Static Import
13th	1st	What is a stream, Reading and writing to files(only txt files)
	2nd	Innput and Output Stream
	3rd	Manipulating Input data
	4th	Opening and Closing Streams
14th	1st	Predefined streams
	2nd	Exceptions Overview, Exception Keywords
	3rd	Catching Exceptions
	4th	Using Finally Statement
15th	1st	Exception Methods
	2nd	Declaring Exceptions
	3rd	Defining and throwing exceptions
	4th	Errors and Runtime Exceptions

  
 Signature of  
 Faculty

  
 HOD  
 Sr. Lecturer(CSE)