

RGPV (DIPLOMA WING) BHOPAL		OBE CURRICULUM FOR THE COURSE		FORMAT- <b>3</b>	Sheet No. 1/3
Branch				Semester	
Course Code	Course Name				
<b>Course Outcome 1</b>	Describe the components of biosphere and the impact of human activity on environment.			Teach Hrs	Marks
<b>Learning Outcome 1</b>	Summarize different types of ecosystems and their conservation			03	05
<b>Contents</b>	Ecosystem, types, structure and function of ecosystem. Energy flow in ecosystem. Biodiversity and its importance, threats to biodiversity and conservation of biodiversity.				
<b>Method of Assessment</b>	Internal assessment –presentation /quiz				
<b>Learning Outcome 2</b>	Summarize various natural resources and their conservation			03	05
<b>Contents</b>	Natural resources and associated problems. Renewable and non renewable resources, forest resources- Description, benefits, Effects due to deforestation, Water resources –Use and conservation. Mineral resources–mining activity. Role and responsibility of engineer in environmental protection,				
<b>Method of Assessment</b>	External assessment-Endsem theory exam				
<b>Learning Outcome 3</b>	Explain the role of population growth on environment			04	05
<b>Contents</b>	Population growth aspects and importance and effects on environment. Human health and Human rights. Concept of carbon credits				
<b>Method of Assessment</b>	Internal assessment –presentation /quiz				
<b>Course Outcome 2</b>	Summarize the causes and sources of air pollution, and their impact on global environment				

<b>Learning Outcome 1</b>	List out various sources of air pollutants their sources and impact on human life	10	10
<b>Contents</b>	Standard definition of air pollution ,Composition of natural air, Names of air pollutants, Classification of air pollutants, primary and secondary pollutants, Classification of source of air pollutants on different bases, Definition of different types of aerosols. Effect of air pollution on human health, material properties, vegetation.		
<b>Method of Assessment</b>	External assessment-End sem theory exam		
<b>Learning Outcome 2</b>	Explain major environmental phenomenon of airpollution	10	15
<b>Contents</b>	Major environmental phenomenon e.g., acid rain, global warming, green house effect, ozone layer depletion. Air quality standards, Brief description of air pollution laws. Meteorological parameters influencing air pollution Environmental lapse rate, temperature inversion. The National Action Plan on Climate Change (NAPCC),		
<b>Method of Assessment</b>	External assessment-Endsem theory exam		
<b>Learning Outcome 3</b>	Appreciate role of agencies and regulatory bodies	10	10
<b>Contents</b>	Role of national green tribunal in India, Function of Regulatory boards like CPCB and State Pollution Control Boards, Bureau of Energy Efficiency, Schemes under The National Mission for Enhanced Energy Efficiency (NMEEE),		
<b>Method of Assessment</b>	Internal assessment –presentation /quiz		
<b>Course Outcome 3</b>	Summarize water pollutants and water conservation		
<b>Learning Outcome 1</b>	Differentiate waste water on the basis of properties	05	10
<b>Contents</b>	Water resources, Classification of water, Origin, composition and characteristics of domestic		

	waste water as well as industrial waste water, Biochemical oxygen demand, Water pollution laws and standards.		
<b>Method of Assessment</b>	Internal assessment –presentation /quiz		
<b>Learning Outcome 2</b>	Describe water conservation methods	10	10
<b>Contents</b>	Water conservation ,watershed management, Rain water harvesting		
<b>Method of Assessment</b>	External assessment-Endsem theory exam		
<b>Course Outcome 4</b>	Suggest methods for solid waste management		
<b>Learning Outcome 1</b>	Classify solid wastes and their management	10	10
<b>Contents</b>	Sources and classification of solid waste, Public health aspects		
<b>Method of Assessment</b>	External assessment –presentation /quiz		
<b>Learning Outcome 2</b>	Describe waste disposal methods	10	10
<b>Contents</b>	Disposal methods – open dumping , sanitary , land fill, Incineration , composting		

<b>Method of Assessment</b>	External assessment-Endsem theory exam		
<b>Course Outcome 5</b>	Explain about noise pollution	10	10
<b>Contents</b>	Sources of noise pollution ,Units of Noise pollution measurement, Allowable limits for different areas, Problems of noise pollution and measures to control it, Noise pollution control devices		
<b>Method of Assessment</b>	External assessment-Endsem theory exam		