	Meerut Institute of Engineering and Technology, Meerut							
CO-wise Syllabus- EVS								
	CO-1	Statement	Understand basic concepts related to EIA and the need of sustainable development.					
1		Syllabus	Environment: Definition, Types of Environment, Components of environment, Segments of environment, Scope and importance, Need for Public Awareness. Ecosystem: Definition, Types of ecosystem, Structure of ecosystem, Food Chain, Food Web, Ecological pyramid. Balance Ecosystem. Effects of Human Activities such as Food, Shelter, Housing, Agriculture, Industry, Mining, Transportation, Economic and Social security on Environment, Environment Impact Assessment, Sustainable Development.					
	CO-2	Statement	Estimate and predict the consequences of human actions on quality of human life and nature.					
2		Syllabus	Natural Resources: Introduction, Classification. Water Resources; Availability, sources and Quality Aspects, Water Borne and Water Induced Diseases, Fluoride and arsenic Problems in Drinking Water. Mineral Resources ; Material Cycles; Carbon, Nitrogen and Sulfur cycles. Energy Resources ; Conventional and Non conventional Sources of Energy. Forest Resources ; Availability, Depletion of Forests, Environment impact of forest depletion on society.					
	CO-3	Statement	Develop critical thinking for environmental protection.					
3		Syllabus	Pollution and their Effects; Public Health Aspects of Environmental ; Water Pollution, Air Pollution, Soil Pollution, Noise Pollution, Solid waste management.					
	CO-4	Statement	Understand various current environmental issues and concerns of national and global importance.					
4		Syllabus	Current Environmental Issues of Importance; Global Warming, Green House Effects, Climate Change, Acid Rain, Ozone Layer Formation and Depletion, Population Growth and Automobile pollution, Burning of paddy straw.					
	CO-5	Statement	Develop sensitive attitude to adopt sustainability as a practice in life, society and industry.					
5		Syllahus	Environmental Protection ; Environmental Protection Act 1986, Initiatives by Non Governmental Organizations (NGO's), Human Human Population and the Environment: Population growth, Environmental Education, Women Education.					

	B.Tech First Year: Regular Course Lecture Plan Session 2023-24							
Subject Name: Environment & Ecology (BAS104/BAS204)								
CO. No	Title	Topic Description	Lect. No					
		Environment- definition; types, components and segments of environment	1					
		Scope and importance of environmental science/studies, Need for Public Awareness	2					
	Environment & Ecosystem	Ecology, Ecosystem (Definition, types and structure)	3					
		Functions of ecosystem, concept of food chain, food web and energy flow	4					
CO-1		Ecological pyramids and their types	5					
		Impact of human activities (mining and modern agriculture) on environment	6					
		Impact of human activities-urbanization (housing, transportation and industrialization) on environment	7					
		EIA and its procedure	8					
		Concept of Sustainable Development	9					
		Introduction and classification of natural resources	10					
		Water resources (distribution, sources and quality aspects)	11					
		Water borne and water induced diseases, arsenic and fluoride	12					
	Natural Resources	Material or bio-geochemical cycles, Carbon, nitrogen and sulphur cycles	13					
CO-2		Conventional Sources of Energy: Fossil fuels (coal, petroleum & natural gas), nuclear fuels	14					
		Non conventional Sources of Energy: solar, wind, hydro, tidal, geothermal, biomass energy	15					
		Forest resources (availability), functions of forest, Deforestation-its causes, impacts and control measures	16					
		Environmental pollution, its types and types of environmental pollutants	17					
		Causes, impacts and control measures of air pollution	18					
	Pollution And Their Effects;	Causes, impacts and control measures of water pollution	19					
CO-3	Public Health	(waste water treatment) Causes, impacts and control measures of thermal, soil and						
	Aspects Of	noise pollution	20					
	Environmental	Case studies like Bhopal Gas Tragedy, Chernobyl nuclear accident, Minamata disease	21					
		Solid waste (including E-waste) and Solid waste management practices	22					

	B.Tech First Year: Regular Course Lecture Plan Session 2023-24								
Subject Name: Environment & Ecology (BAS104/BAS204)									
CO. No	Title	Topic Description	Lect. No						
	Current	Concept of Global climate change, global warming and greenhouse effect	23						
	Environmental	Concept of Acidrain and ozone layer delpletion	24						
CO-4	Issues Of National & Global	Causes, impacts and control measures of automobile pollution	25						
	Importance	Burning of paddy straw, its causes, environmental impacts and control measures	26						
	Environmental Protection	Environmental Protection Act 1986	27						
		Role of NGO'S and Individuals in environmental protection	28						
CO-5		Polpulation: population & its characteristics, population growth and related aspects	29						
		Environmental Education and need for women education	30						