"PVC" NSSK Govt. Polytechnic Bilaspur at Kalol (HP)

Planned Syllabus Coverage (Theory)

s. No	No. of	Topic	Detail of Content	Reference Resources
5. 140	Lect.	Topic	Detail of content	
1	02	Basics of Ecology	1.Basics of ecology, eco system and sustainable development	ESDM by Dr. Deepak Arora
2	04	Conservation of land,preservation of species	2.Conservation of land, preservation of species, prevention of advancement of deserts and lowering of water-table, rain water harvesting, deforestation-its effects and control measures	ESDM by Dr. Deepak Arora
3	05	Pollution	3.Pollution:Sources of Pollution-causes, effects and control measures of pollution (air, water, noise, soil, radioactive and nuclear). Units of measurement	ESDM by Dr. Deepak Arora
4	05	Pollution	Prevention of Pollution,Introduction to Cleaner production Technologies,introduction to Waste Minimization Tech.	ESDM by Dr. Deepak Arora
5	06	waste management Conservation	4. Solid waste management, classification of refuse material, sources, effects and control measures. Introduction to E-waste Management	ESDM by Dr. Deepak Arora
6	08	Energy efficiency	5.Conservation Energy:Introduction to Energy Management, Energy Conservation, Energy efficiency & its need.Introduction to Energy Conservation Act 2001 and Energy Conservation (Amendment) Act 2010 & its importance. Role of Non-Conventional Energy Resources(Solar Energy, Wind Energy, Bio Energy, Hydro Energy) in environmental protection.	ESDM by Dr. Deepal Arora
7	06	Role of Non- Conventional Energy Resources	6.Impact of Energy Usage on Environment:Global Warming, Green House Effect, Depletion of Ozone Layer, Acid Rain, Eco- friendly Material, Recycling of Material, Concept of Green Buildings	ESDM by Dr. Deepal Arora
8	04	Disasters	7. Basics of Disaster Management 7.1 Disasters-Basic Terminology: Concepts and definitions of Disaster, Hazard, Vulnerability,Risk, Capacity- Disaster and Development, and Disaster Management.	ESDM by Dr. Deepa Arora
	04 7	Types of Disaster	7.2 Types, Trends, Causes, Consequences and Control of Disaster Geological Disasters: earthquakes, landslides, tsunami,mining;Hydro-Meteorological Disasters:floods,cyclones,lightning, thunder-storms, hail storms, avalanches, droughts,cold and heat waves.Disasters:epidemics, pest attacks, forest fire Technological Disasters: chemical, industrial, radiological, nuclear; Manmade Disasters: building collapse,rural and urban fire, road and rail, nuclear,radiological,chemicals and biological disasters	ESDM by Dr. Deepa Arora
	04	rends	7.3 Disaster Management Disaster Management, Disaster risk reduction Pre-Disaster-Risk Assessment and Analysis, Risk Mapping, zoning and Micro-zoning Prevention and Mitigation of Disasters, Early Warning System; Preparedness, Capacity Development	ESDM by Dr. Deepa

Shabrum Shame Signature of Teacher with Date

Sign. Of HOD/OIC