Government Polytechnic Panchkula, Sector Lesson Plan

Name-MsRavita /Dr.Pankaj Discipline- Applied Science Semester – 2nd Sem Subject –Environment

Duration –16 weeks

Work load (per week):- lectures-02

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| *Week* | *Theory* | |
| *1st* | *Lect. day* | *Topic* |
| *1st* | ***UNIT I***  ***Introduction:*** *Basics of ecology,eco system- concept,* |
| *2nd* | *sustainable development,* |
| *2nd* | *1st* | *Sources,*  *advantages, disadvantages of renewable and nonrenewable energy.* |
| *2nd* | *Rain water harvesting* |
| *3rd* | *1st* | *Deforestation – its effects & control measures* |
| *2nd* | ***Revision*** |
| *4th*  *5th*  *6th*  *7th* | *1st* | ***Revision*** |
| *2nd* | ***Revision*** |
| *1st* | ***UNIT II***  ***Air and Noise Pollution:*** *Air Pollution: Source of air pollution.Effect of air pollution on human health,* |
| *2nd* | *economy,*  *Air pollution control methods.* |
| *1st* | *Noise Pollution: Source of noise pollution,* |
| *2nd* | *Unit of noise,* |
| *1st* | *Effect of noise pollution, Acceptable noise level,* |

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| *8th*  *9th*  *10th*  *11th*  *12th*  *13th*  *14th*  *15th*  *16th* | *2nd* | *Different method of minimizing noise pollution.* |
| *1st* | *Water Pollution: Impurities in water, Cause of water pollution,* |
| *2nd* | *Source of water pollution.*  *Effect of water pollution on human health,* |
| *1st* | *Concept of DO, BOD, COD. Prevention of water pollution-* |
| *2nd* | *Water treatment processes, Sewage treatment. Water quality standard.* |
| *1st* | *Soil Pollution :Sources of soil pollution, Effects and Control of soil pollution,* |
| *2nd* | *Types of*  *Solid waste- House hold, Industrial, Agricultural, Biomedical,* |
| *1st* | *Disposal of solid waste,* |
| *2nd* | *Solid waste management E-waste, E – waste management* |
| *1st* | ***UNIT IV***  ***Impact of Energy Usage on Environment*** |
| *2nd* | *Global Warming, Green House Effect,* |
| *1st* | *Depletion of Ozone Layer, Acid Rain. Eco-friendly Material,* |
| *2nd* | *Recycling of Material,* |
| *1st* | *Concept of Green Buildings,* |
| *2nd* | *Concept of Carbon Credit & Carbon footprint.* |
| *1st* | *UNIT V*  *Disaster Management*  *A. Different Types of Disaster:*  *Natural Disaster: such as Flood, Cyclone, Earthquakes and Landslides* |
| *2nd* | *Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster, Biological Disasters,* |
| *1st* | *Accidents (Air, Sea Rail & Road), Structural failures(Building and Bridge), War & Terrorism*  *etc.* |
| *2nd* | *B.Disaster Preparedness:*  *Disaster Preparedness Plan*  *Prediction, Early Warnings and Safety Measures of Disaster*  *Psychological response and Management (Trauma, Stress, Rumour and Panic)* |