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)* |