

Session Plan

Subject Name: EE&S

Subject Code: 202

Name of Faculty: Mr. Sanad sahu

Course Outcomes

Subject Name : EE&S

Subject Code:202

After the completion of this course the student will be able to:

CO 202.1 Student will be able to explain environment and role of environmental engineer.

CO 202.2 Student will be able to describe pollution and various major toxic metal and law of air pollution.

CO 202.3 Student will be able to explain environmental laps rate and there effects.

CO 202.4 Student will be able to explain purification process of air pollution.

CO 202.5 Student will be able to describe water resources and law of water pollution.

CO 202.6 Student will be able to explain waste water treatment methods.

CO 202.7 Student will be able to explain solid waste disposal method.

CO202.8 Student will be able to describe noise pollution and control of noise pollution.

Unit1 Introduction to Environment

S.No	Topic Name	CO Attem Pted	Resources Used	Mode of teaching	Expected Date	Actual Date	Remark
1	Biosphere,biotic,an abiotic,an equatic ecosystem	CO 202.1	Chalk& board	Lecture	29/01/18 30/01/18		
2	Types of pollution,impact of human being on environment	CO 202.1	Chalk& board	Lecture	01/02/18 02/02/18		
3	Basic approach to improve environmental quantities	CO 202.1	Chalk& board	Lecture	03/02/18		
4	Role of an environment engineer	CO 202.1	Chalk& board	Lecture	04/02/18		
5	Test		Pen & papper	Written& Quize	05/02/18		
6	Discussion	CO 202.1	Chalk& board	Lecture	06/02/18		

Unit2 Air pollution sources & Effect

S.No	Topic Name	CO Attempted	Resources Used	Mode of Teaching	Expected Date	Actual Date	Remark
1	Definition of air pollution, composition of natural air, name of air pollutants	CO 202.2	Chalk&board	Lecture	07/02/18 08/02/18		
2	Classification of air pollutants, primary and secondary pollutants	CO 202.2	Chalk&board	Lecture	09/02/18		
3	Definition of different types of aerosols	CO 202.2	Chalk&board	Lecture	10/02/18		
4	Effect of air pollution on human health, Major toxic metals	CO 202.2	Chalk&board	Lecture	12/02/18		
5	Acid rain ,global warming ,ozone layer depletion,Air quality standards	CO 202.2	Chalk&board	Lecture	13/02/18 15/02/18		
6	Test		Pen and paper	Written and quize	16/02/18		

Unit 3 Metrological Aspects of Air pollution

S.No	Topic Name	CO Attempted	Resources Used	Mode of Teaching	Expected Date	Actual Date	Remark
1	Metrological parameter influencing air pollution	CO 202.3	Chalk& board	Lecture	17/02/18 19/02/18 20/02/18		
2	Environmental lapse rate	CO 202.3	Chalk& board	Lecture	21/02/18		
3	Temperature inversion, Atmospheric stability, adiabatic loss rate	CO 202.3	Chalk& board	Lecture	22/03/18		
4	Turbulence, topographical effect	CO 202.3	Chalk& board	Lecture	23/03/18		
5	Plume behaviour	CO 202.3	Chalk& board	Lecture	24/02/18		
6	Looping, coning, fanning, lofting, trapping	CO 202.3	Chalk& board	Lecture	26/02/18		

Unit4 Air pollution control method&Equipments

S.No	Name of Practical	CO Attem Pted	Resour ces Used	Mode of Teach ing	Expect ed Date	Act ual Dat e	Remark
1	Natural purification process of air.	CO 202.4	Chalk& board	Lectur e	27/02/18 28/02/18		
2	Artificial purification method of air.	CO 202.4	Chalk& board	Lectur e	01/03/18		
3	Gravitational settling chamber,cyclone,scruber and electrostatic precipitator	CO 202.4	Chalk& board	Lectur e	05/03/18		
4	Absorption,Adsorption,condensation,combustion	CO 202.4	Chalk& board	Lectur e	06/03/18		

Unit 5 Water pollution sources and classification

S.No	Topic Name	CO Attempted	Resources Used	Mode of Teaching	Expected Date	Actual Date	Remark
1	Water resources,uses of water,classification of water	CO 202.5	Chalk and Board	Lecture Method	07/03/18 08/03/18 09/03/18		
2	Origion,composition and characteristic of domestic waste water.BOD,COD and uses of waste water	CO 202.5	Chalk and Board	Lecture Method	10/03/18 TO 20/03/18		
3	Test		Pen and papper	Written quize	21/03/18		

Unit 6 Waste water treatment method

S.No	Topic Name	CO Attempted	Resources Used	Mode of Teaching	Expected Date	Actual Date	Remark
1	Basic process of waste water treatment ,primary and secondary treatment method	CO 202.6	Chalk and Board	Lecture Method	22/03/18 23/03/18 24/03/18		
2	Flow chart of a simple effluent treatment plant Theory of industrial waste treatment	CO 202.6	Chalk and Board	Lecture Method	26/03/18 27/03/18 28/03/18		
3	Volume reduction,neutralization and proportioning	CO 202.6	Chalk and Board	Lecture Method	31/03/18		

Unit 7 Solid waste management

S.No	Topic Name	CO Attempted	Resources Used	Mode of Teaching	Expected Date	Actual Date	Remark
1	Sources and classification of solid waste. Public health aspects	CO 202.7	Chalk and Board	Lecture Method	01/04/18 03/04/18 04/04/18		
2	Disposal method-open dumping,sanitary,land fill. Incineration,composting	CO 202.7	Chalk and Board	Lecture Method	05/04/18 06/04/18 07/04/18		
3	Potential method of disposal. Recovery and recycling of paper,glass and plastic	CO 202.7	Chalk and Board	Lecture Method	09/04/18 10/04/18		

Unit 8 Noise pollution and control

S.No	Topic Name	CO Attempted	Resources Used	Mode of Teaching	Expected Date	Actual Date	Remark
1	Sources of noise pollution. Unit of noise pollution	CO 202.8	Chalk and Board	Lecture Method	11/04/18 12/04/18 13/04/18		
2	Allowable limit for different areas. Problem of noise pollution and measure to control it	CO 202.8	Chalk and Board	Lecture Method	16/04/18 17/04/18 19/04/18		
3	Noise pollution control devices	CO 202.8	Chalk and Board	Lecture Method	20/04/18		

Unit 9 Safety practices

S.No	Topic Name	CO Attempted	Resources Used	Mode of Teaching	Expected Date	Actual Date	Remark
1	Responsibility of employees and employees regarding health and safety	CO 202.9	Chalk and Board	Lecture Method	21/04/18 23/04/18 24/04/18		
2	Fire hazards, prevention and precautions	CO 202.9	Chalk and Board	Lecture Method	25/04/18 26/04/18		
3	Industrial hazards prevention and protection. Protection from air and noise pollution	CO 202.9	Chalk & board	Lecture	27/04/18		

Expected Study Hours: hrs

Actual Study Hours:

Reason for Delay

Signature of Faculty

Signature of HOD