LESSON PLAN OF 6 TH SEMESTER(2020-21) CHEMICAL ENGINEERING		
DISCIPLINE: CHEMICAL	Semester:-6 [™]	NAME OF THE TEACHING FACULTY PRATEEK KUMAR DAS
SUBJECT: PLANT SAFETY MANAGEMENT	No of days per Week Allotted : 04	SEMESTER: APRILTO AUGUST No of Weeks:- 15
Week	Class/ Day	Theory/ Practical Topics
1 ST	1 st	Fundamental of safety
	2 nd	Unsafe act and unsafe condition
	3 rd	Integration of Safety, Health and
		Environment
	4 th	Integration of Safety, Health and
		Environment
	1 st	Objective and principle of Safety
		Management
2 ND	2 nd	Terms and definition used in safety
2		management
	3 rd	Classification of accidents
	4 th	Good Housekeeping practice
	1 st	Work place safety
	2 nd	Safe working environment
3 rd	3 rd	Spot a hazard to stop an accident
-	4 th	Spot a hazard to stop an accident
	1 st	Precaution in use of ladder
	2 nd	Safety instruction during maintenance
	3 rd	Safety measures during handling of
4 th		compressed system, cylinders and painting
	4 th	Equipment
	4"	Safety measures during handling of
		compressed system, cylinders and painting
	1 st	Equipment Permit to work system
5 th	2 nd	Permit to work system Permit to work system
	3 rd	Requirement of personal protective
	3	equipment of personal protective
	4 th	Requirement of personal protective
	, , , , , , , , , , , , , , , , , , ,	equipment
	1 st	Classification of Hazards
	2 nd	Personal protective equipment for different
	_	parts of body
6 th	3 rd	Personal protective equipment for different
· ·		parts of body
	4 th	Guideline to use personal protective
		equipment
	1 st	Guideline to use personal protective
7 th		equipment
	2 nd	Fundamentals of fire

	3 rd	Elements of fire
	4 th	Terms and definition in Fire Management
	1 st	Classification of fire and fire extinguishing
		technique
	2 nd	Causes of fire and its prevention
8 th	3 rd	Different types of fire extinguisher and
		their application
	4 th	Different types of fire extinguisher and
		their application
9 th	1 st	Precaution for prevention of fire
	2 nd	Classification of Chemical Hazards
	3 rd	Factors influencing effects of toxic
		chemicals
	4 th	Terms related to concentration level as per
		industrial hygiene norm
	1 st	Control measure for Chemical hazards
10 th	2 nd	Introduction to electrical safety
10"	3 rd	Precaution and safety in use of electricity
	4 th	Precaution and safety in use of electricity
	1 st	Electrical hazards in Industrial system
	2 nd	Electrical hazards in Industrial system
11 th	3 rd	Safety provision to prevent electrical
11"		hazards
	4 th	Safety provision to prevent electrical
		hazards
	1 st	Sources of mechanical hazards
12 th	2 nd	Machine Guard and Safety devices
12	3 rd	Machine Guard and Safety devices
	4 th	Pressure hazards and pressure vessel
13 th	1 st	Pressure hazards and pressure vessel
	2 nd	Safety measures in use of gas cylinders
	3 rd	Safety measures in use of gas cylinders
	4 th	Types of maintenance-Breakdown
14 TH	1 st	Types of maintenance-Annual
	2 nd	Types of maintenance-Preventive
	3 rd	Case Study regarding plant safety
	4 th	Case Study regarding plant safety
15 TH	1 st	Objective Questions on Plant Safety
		Management
	2 nd	Objective Questions on Plant Safety
		Management
	3 rd	Objective Questions on Plant Safety
	-	Management
	4 th	Objective Questions on Plant Safety
		Management Survey