CHEMICALENGINEERINGDEPARTMENT LESSONPLAN

Discipline:- CHEMICAL	Semester:-5 th	NameoftheTeachingFaculty MrBIJAYA KUMAR MAHARANA
Subject:- ChemicalPro cessIndustries –II	No of Days/perWeek Class Allotted: -04	SemesterFrom:- July To:-December
CourseCode: TH3		
Week	ClassDay	Theory/PracticalTopics
1 st	1 st	CHAPTER-1:PESTICIDES
	-	Introduction
	2 nd	Pesticides, Classification
	3 rd	ManufactureofDDT
	4 th	DDTflowsheetdescription&application
2 nd	1 st	CHAPTER-2:PAINTSANDVARNISHES
		Introductionaboutpaint, varnishes, lacquers, enamels and their components
	2 nd	Constituentsofpaintsandtheircharacteristics
	3 rd	Manufacturingprocessofpaintsandvarnishes.
	4 th	Failureofpaints
	1 st	Advancetechnologiesinpaintindustries
3rd	2 nd	CHAPTER-3:EXPLOSIVES Introductionaboutexplosives
	3 rd	Classificationofdifferentexplosives
	4 th	Manufactureofcellulosenitrate
4 th	1 st	Broadapplicationofcellulosenitrate
	2nd	Manufacturenitroglycerineanddynamite
	$\overline{3}^{rd}$	CHAPTER-4:PLASTICS
		Introductionaboutplastics, types
	4 th	Differentiatebetweenthermoplasticandthermosetting
5 th	1^{st}	Classificationofplastics
	2 nd	Propertiesandmanufactureofphenolformaldehydeanditsapplication
	3 rd	Propertiesandmanufactureofureaformaldehydeanditsapplication
	4 th	PropertiesandManufactureofpolyethyleneanditsapplication
6 th	1 st	PropertiesandManufactureofP.V.Canditsapplication
	2 nd	CHAPTER-5:SYNTHETICFIBERS
		Introductionaboutfibreanditsclassification
	3 rd	Propertiesofpolyamides
	4 th	ManufactureofNylonanditsapplication
7 th	1 st	PropertiesandManufactureofViscoserayonanditsapplication
	2 nd	PropertiesandManufactureofCuproammoniumrayonanditsapplication

	3 rd	PropertiesandManufactureofAcetaterayonanditsapplication
	4 th	PropertiesandManufactureofPolyesteranditsapplication
8 th	1 st	CHAPTER-6:RUBBER
		Introductionaboutrubberanditsclassification
	2^{nd}	Vulcanizationofrubber
	3 rd	Naturalandsyntheticrubber
	4 th	ManufactureofSBRandtheirproperties
9 th	1 st	ManufactureofNitrilerubberandtheirproperties
	2^{nd}	CHAPTER-7:SUGAR
	- 1	Introduction
	3 rd	Manufactureofsugarfromsugarcane
101	4 th	Manufactureofindustrialalcoholanduses
10 th	1 st	Classificationofalcoholicbeverages
	2 nd	PropertiesofAlcohols
	3 rd	ManufactureofBeer
	4 th	Cont
11 th	1 st	CHAPTER-8:OILSANDFATS
	and	Classifydifferenttypesofoil
	2 nd	Manufactureofvegetableoil
-	3 rd	Differentiateedibleandessentialoil
12 th	<u>4th</u> 1 st	Differentiateoilandfats
12	_	Hydrogenationofoilandapplication
	2^{nd}	Advancetechnologiesinoilproduction
	3 rd	CHAPTER-9:SOAPSANDDETERGENTS
	41	Introductiononsoapsanddetergent
	4 th	Differentiatebetweensoapanddetergent
13 th	1 st	Propertiesofsurfactant
	2^{nd}	Cleaningactionofsoap
-	3 rd	Typesofsoap
	4 th	Manufactureofsoapanduses
14 th	1 st	Manufactureofdetergentanduses
	2^{nd}	Industrialapplicationofsurfactants
	3 rd	CHAPTER-10: PHARMACEUTICALINDUSTRY
		Classificationofpharmaceuticalindustry
	4 th	MajorpharmaceuticalindustryinIndia
15 th	1 st	Pharmaceuticalindustryproducts
	2^{nd}	Propertiesandstructureofpenicillin
	3 rd	Manufactureofpenicillinbyfermentation
	4 th	Applicationofpenicillin