RGPV (DIPLOMA WING	G)BHOPAL					FORMAT -3	
	1	OBE CU	RRICULUM	FOR THE	COURSE		
Branch	PRPC SEN				SEME	STER	
COURSE CODE	COURSE NAME		Introduction to petrochemical eng			gineering	
COURSE OUTCOME-1	To beable t	to explain co	oncept of ph	ase rule, ac	lsorption ar	nd colloid's.	
LEARNING OUTCOME- 1	To illustarat concept of phase rule.						
	Statement and explanation of phase rulederivation, One						
CONTENTS	component system i.e. water two component system i.e. KI-water and silver lead.						
ASSESSMENT METHOD							
LEARNING OUTCOME-	To evolain	adsorption					
2		ausorption					
	Introductio	on, physical	adsorption a	and ID chem	ni-sorption,	in	
exchange adsorption, freundeich and Langmuir adsorption							
ASSESSMENT							
METHOD							
LEARNING OUTCOME	To describe	e colloids					
3							
	Properties of colloidal systemthirotrophy, emulsification and de-						
CONTENTS	emulsificat	ion their th	eory and inc	lustrial appl	ications.		
ASSESSMENT							
METHOD							
COURSE OUTCOME-2	To identif	y properties	s of various	hydrocarbo	nss.		
LEARNING OUTCOME-	To identify	aliphatic co	mpounds.				
1							
	General p	roperties of	hydrocarbo	ons method	s of prepara	ition,	
	properties	and uses of	aliphatic an	d cyclic con	npounds.Ali	phatic and	
CONTENTS	aromaticde	erivatives Th	nio, hydroxy	l compound	ls, aldehyde	s, ketones,	
	carboxylic acid, eithrs, syanametailic compounds.						
ASSESSMENT							
METHOD							
LEARNING OUTCOME-	To identify	aromatic co	ompounds.				
2							
CONTENTS	Aromatic h	ydrocarbon	s, benzene,	Toluene po	lymeric aro	matic	
	hydrocarbo	ons, vaphtha	aleneanthra	cine, heterc	ocyclic sulph	ur	
	Compalind		ACCOUNTED A	WINDE TOP	niten		

ASSESSMENT		
METHOD		
COURSE OUTCOME-3	To to develop the understanding about fundamental knowledge of	
	petrochemical industry	
LEARNING OUTCOME-	To develop understanding of unit operations.	
1		
CONTENTS	Introductions, mechanicalseparations fluid flew operations their	
	basic principles	
ASSESSMENT		
METHOD		
LEARNING OUTCOME-	To develop understanding of industrial process.	
2		
	Heat transfer operations, mass transfer operation and simultaneous	
CONTENTS	heat and mass transfer operations.	
ASSESSMENT		
METHOD		
COURSEOUTCOME-4	To learn the various processes.	
LEARNING OUTCOME-	To apply different unit process in petrochemical industry.	
1		
	Introduction Nitration balagonation alkylation sulfanation	
CONTENTS	introduction, Nitration, halogenation, arkylation, sufficiation.	
CONTENTS		
ASSESSMENT		
METHOD		
LEARNING OUTCOME-	To select the appropriate method.	
2		
	Animation, polymerization, oxidation hydrogetion.	
CONTENTS		
ASSESSMENT		
METHOD		
COURSE OUTCOME-5	To develop understanding of petrochemical industry.	
LEARNING OUTCOME-	To understand various representation of flow process.	
1		
CONTENTS	Equipment symbols, processes stream flow lines, instrumentation	
	symbols. objective of process plant location and layout criteria for	
	selection of plant location and layout	
ASSESSMENT		
METHOD		

2		
CONTENTS	Density, Visocity of liquid and gases vapour fascia, heat capacity of solids liquids and gases deffusivity. Use of nomegrams, effect of temperature on physical properties, graphical calculation	
ASSESSMENT		
METHOD		
LEARNING OUTCOME- 3	To get familiar with petrochemical field.	
CONTENTS	Evolution of petrochemical engineering profession, role of petrochemical engineers opportunities for petrochemical engineers future of petrochemical engineering.	
ASSESSMENT		
METHOD		

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