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NAAC ACCREDITED

B.TECH PETROCHEMICAL TECHNOLOGY

(FOUR YEAR FULL TIME)

CURRICULUM-2009 SEMESTER I

CODE NO.	COURSE TITLE	L	Т	Р	С		
THEORY							
XPC101	Technical English	3	1	0	4		
XPC102	Mathematics- I	3	1	0	4		
XPC103	Computer Programming	4	0	0	4		
XPC104	Applied Chemistry	3	1	0	4		
XPC105	Engineering Graphics	2	0	3	4		
XPC106	Basic Engineering	4	0	0	4		
	PRACTICAL						
XPC107	Computer Programming Lab	0	0	3	2		
XPC108	Applied Chemistry Lab	0	0	3	2		
XPC109	Basic Workshop Practice	0	0	3	2		

Total Hours: 34

Total Credits:30

SEMESTER II

CODE NO.	COURSE TITLE	L	Т	Р	С	
THEORY						
XPC201	Mathematics – II	3	1	0	4	
XPC202	Applied Physics	4	0	0	4	
XPC203	Physical chemistry	3	1	0	4	
XPC204	Organic Chemistry	3	1	0	4	
XPC205	Material Technology	4	0	0	4	
XPC206	Environmental Science & Engineering	3	0	0	3	
	PRACTICAL					
XPC207	Applied Physics Lab	0	0	3	2	
XPC208	Communication Skills Enhancement	2	0	2	3	
XPC209	Physical and Organic Chemistry Lab	0	0	3	2	
Total Hourse 22 Total Cradite 20						

Total Hours: 33

Total Credits:30



SEMESTER III

CODE NO.	COURSE TITLE	L	Т	Ρ	С		
	THEORY						
XPC301	Mathematics-III	3	1	0	4		
XPC302	Fluid mechanics	3	1	0	4		
XPC303	Electrical Machines and Drives	3	1	0	4		
XPC304	General Chemical Technology	4	0	0	4		
XPC305	Process Calculations	3	1	0	4		
XPC306	Professional Ethics and Human values (PC)	3	0	0	3		
	PRACTICAL						
XPC307	Basic Engineering Lab	0	0	3	2		
XPC308	Fluid Mechanics Lab	0	0	3	2		

Total Hours: 29

Total Credits:27

SEMESTER IV

CODE NO.	COURSE TITLE	L	Т	Р	С			
	THEORY							
XPC401	Mechanical Operations	3	0	0	3			
XPC402	Petroleum Refinery Engineering I	3	1	0	4			
XPC403	Heat Transfer	3	1	0	4			
XPC404	Process Instrumentation	3	1	0	4			
XPC405	Petroleum Thermodynamics	3	1	0	4			
XPC406	Petrochemical technology I	3	1	0	4			
	PRACTICAL							
XPC407	Mechanical Operations Lab	0	0	3	2			
XPC408	Heat Transfer Lab	0	0	3	2			

Total Hours: 29

Total Credits: 27



SEMESTER V

CODE NO.	COURSE TITLE	L	Т	Р	С			
	THEORY							
XPC501	Numerical Methods and Statistics	3	1	0	4			
XPC502	Petroleum Refinery Engineering II	3	1	0	4			
XPC503	Petroleum Exploration and Exploitation Techniques	3	1	0	4			
XPC504	Chemical Reaction Engineering - I	3	1	0	4			
XPC505	Mass Transfer - I	3	1	0	4			
XPC506	Petrochemical technology II	3	0	0	3			
	PRACTICAL		•		•			
XPC507	Mass Transfer Lab	0	0	3	2			
XPC508	Petrochemical Analysis Lab - I	0	0	3	2			

Total Hours: 29

Total Credits: 28

SEMESTER VI

CODE NO.	COURSE TITLE	L	Т	Р	С		
	THEORY						
XPC601	Process Dynamics and Control	3	1	0	4		
XPC602	Natural Gas and Synthetic Fuels Technology	3	0	0	3		
XPC603	Plant Utilities	3	0	0	3		
XPC604	Chemical Reaction Engineering - II	3	1	0	4		
XPC605	Mass Transfer -II	3	1	0	4		
XPC606	Elective – I	3	0	0	3		
	PRACTICAL						
XPC607	Chemical Reaction Engineering Lab	0	0	3	2		
XPC608	Petrochemical Analysis Lab - II	0	0	3	2		

Total Hours: 27

Total Credits: 25



SEMESTER VII

CODE NO.	COURSE TITLE	L	т	Р	С		
	THEORY						
XPC701	Social Engineering	3	0	0	3		
XPC702	Process Engineering Economics	3	1	0	4		
XPC703	Transport Phenomena	3	0	0	3		
XPC704	Process Modeling and Simulation	3	1	0	4		
XPC705*	Elective – II	3	0	0	3		
XPC706*	Elective – III	3	0	0	3		
	PRACTICAL	ł			1		
XPC707	Process Dynamics and Control Lab	0	0	3	2		
XPC708	Process Equipment Design and Drawing Lab	1	1	3	4		
XPC709	Mini Project	0	0	4	4		

Total Hours: 31

Total Credits: 30

SEMESTER VIII

CODE NO.	COURSE TITLE	L	Т	Ρ	С
	THEORY	•		•	
XPC801	Entrepreneurial development management	3	0	0	3
XPC802	Safety and Risk Management	3	1	0	4
XPC803*	Elective – IV	3	0	0	3
XPC804*	Elective – V	3	0	0	3
PRACTICAL					
XPC805	Project Work & IPT Evaluation	0	0	24	12

Total Hours: 37

Total Credits: 25

Over all Credits: 222

NOTE:

- L --> LECTURE HOURS T --> TUTORIAL HOURS
- P → PRACTICAL HOURS
- **C** → CREDITS HOURS

