

Scheme of  
UNDERGRADUATE DEGREE COURSE

**B.Tech. V & VI Semester**

**Petrochemical Engineering**



**Rajasthan Technical University, Kota**

Effective from session: 2022 – 2023



## Teaching & Examination Scheme B. Tech.: Petrochemical Engineering 3<sup>rd</sup> Year –V Semester

<b>THEORY</b>											
SN	Category	Course		Contact hrs/week			Marks				Cr
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total	
1	ESC	5PC3-01	Environmental Pollution Control	2	0	0	3	30	70	<b>100</b>	<b>2</b>
2	PCC/ PEC	5PC4-02	Chemical Reaction Engineering -I	3	0	0	3	30	70	<b>100</b>	<b>3</b>
3		5PC4-03	Mass Transfer -II	3	0	0	3	30	70	<b>100</b>	<b>3</b>
4		5PC4-04	Process Equipment Design -I	3	0	0	3	30	70	<b>100</b>	<b>3</b>
5		5PC4-05	Petrochemical Technology	3	0	0	3	30	70	<b>100</b>	<b>3</b>
6		5PC5-11	<b>Core Elective-I : Any One</b> Natural Gas Engineering								
		5PC5-12	Process Instrumentation	2	0	0	3	30	70	<b>100</b>	<b>2</b>
		5PC5-13	Energy Resource and Utilization								
<b>Sub Total</b>				<b>16</b>	<b>0</b>	<b>0</b>					<b>16</b>
<b>PRACTICAL &amp; SESSIONAL</b>											
7	PCC	5PC4-21	Chemical Reaction Engineering Lab-I	0	0	4	3	60	40	<b>100</b>	<b>2</b>
8		5PC4-22	Mass Transfer Lab –II	0	0	2	2	60	40	<b>100</b>	<b>1</b>
9		5PC4-23	Environmental Engineering Lab	0	0	2	2	60	40	<b>100</b>	<b>1</b>
10	PSIT	5PC7-30	Industrial Training	0	0	1		60	40	<b>100</b>	<b>2.5</b>
11	SODE CA	5PC8-00	Social Outreach, Discipline & Extra Curricular Activities	0	0	0			100	<b>100</b>	<b>0.5</b>
<b>Sub- Total</b>				<b>0</b>	<b>0</b>	<b>9</b>					<b>7</b>
<b>TOTAL OF V SEMESTER</b>				<b>16</b>	<b>0</b>	<b>9</b>					<b>23</b>

**L:** Lecture, **T:** Tutorial, **P:** Practical, **Cr:** Credits

**ETE:** End Term Exam, **IA:** Internal Assessment



# RAJASTHAN TECHNICAL UNIVERSITY, KOTA

## Teaching & Examination Scheme B. Tech.: Petrochemical Engineering 3<sup>rd</sup> Year – VI Semester

THEORY												
SN	Category	Course		Contact hrs/week			Marks				Cr	
		Code	Title	L	T	P	Exm Hrs	IA	ETE	Total		
1	ESC	6PC3-01	Plant Design and Economics	2	0	0	3	30	70	100	2	
2	PCC/ PEC	6PC4-02	Chemical Reaction Engineering-II	3	0	0	3	30	70	100	3	
3		6PC4-03	Process Equipment Design-II	3	0	0	3	30	70	100	3	
4		6PC4-04	Process Dynamics and Control	3	0	0	3	30	70	100	3	
5		6PC4-05	Petroleum Refinery Engineering	3	0	0	3	30	70	100	3	
6		6PC5-11	<b>Core Elective-II: Any one</b> Health Safety and Environment Advanced Separation Process Polymer Science & Technology.									
		6PC5-12		3	0	0	3	30	70	100	3	
	6PC5-13											
<b>Sub Total</b>				<b>17</b>	<b>0</b>	<b>0</b>					<b>17</b>	
PRACTICAL & SESSIONAL												
7	PCC	6PC4-21	Petroleum Product Testing Lab	0	0	4	3	60	40	100	2	
8		6PC4-22	Process Dynamics and Control Lab	0	0	4	3	60	40	100	2	
9		6PC4-23	Chemical Reaction Engineering Lab-II	0	0	2	2	60	40	100	1	
10		6PC4-24	Plant Design and Economics Sessional	0	0	2	2	60	40	100	1	
11	SODE CA	6PC8-00	Social Outreach, Discipline & Extra Curricular Activities						100	100	0.5	
<b>Sub- Total</b>				<b>0</b>	<b>0</b>	<b>12</b>					<b>6.5</b>	
<b>TOTAL OF VI SEMESTER</b>				<b>17</b>	<b>0</b>	<b>12</b>					<b>23.5</b>	

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