

# Pandit Deendayla Petroleum University, School of Technology

## Course Structure for M. Tech. (Chemical Engineering)

(w.e.f. Academic Year July 2016-17)

### Semester I

Sr. No	Course Code	Course Name	Teaching Scheme					Exam Scheme					
			L	T	P	C	Hrs/wk	Theory			Practical		Total Marks
								MS	ES	IA	LW	LE	
1	MA 503T*	Advanced Numerical Techniques and Computer Programming	3	1	0	4	4	25	50	25	--	--	100
2	MA 503P*	Advanced Numerical Techniques and Computer Programming Lab	0	0	2	1	2	--	--	--	25	25	50
3	CH 501T	Advanced Transport Phenomena	3	0	0	3	3	25	50	25	--	--	100
4	CH 502T	Advanced Chemical Reaction Engineering	3	0	0	3	3	25	50	25	--	--	100
5	CH 503T	Advanced Chemical Engineering Thermodynamics	3	0	0	3	3	25	50	25	--	--	100
	CH 504P	Experimental and Software Lab	0	0	4	2	4	--	--	--	25	25	50
6	CH 50X	Elective-I	3	0	0	3	3	25	50	25	--	--	100
<b>Total</b>			<b>15</b>	<b>1</b>	<b>6</b>	<b>19</b>	<b>22</b>	<b>125</b>	<b>250</b>	<b>125</b>	<b>50</b>	<b>50</b>	<b>600</b>

*MS = Mid Semester, ES = End Semester, IA = Internal assessment (like quiz, assignments etc), LW = Laboratory work, LE = Lab Exam*

#### Elective I:

- CH 505 Advanced Separation Technology
- CH 506 Advanced Biochemical Engineering
- CH 507 Advanced Process Synthesis

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### Semester II

Sr. No	Course Code	Course Name	Teaching Scheme					Exam Scheme					
			L	T	P	C	Hrs/wk	Theory			Practical		Total
								MS	ES	IA	LW	LE	Marks
1	CH 508T	Computer Aided Process Engineering	3	0	0	3	3	25	50	25	--	--	100
2	CH 508P	Computer Aided Process Engineering Lab	0	0	4	2	4	--	--	--	25	25	50
3	CH 509T	Advanced Process Control	3	0	0	3	3	25	50	25	--	--	100
4	CH 510T	Unit Operations and Processes in Environmental Engineering	3	0	0	3	3	25	50	25			100
5	CH 51X	Elective II	3	0	0	3	3	25	50	25	--	--	100
6	CH 51X	Elective III	3	0	0	3	3	25	50	25	--	--	100
8	CE 527T	Successful Research Program Development	2	0	0	Au	2	25	50	25	--	--	NP/PP
<b>Total</b>			<b>17</b>	<b>0</b>	<b>4</b>	<b>17</b>	<b>21</b>	<b>150</b>	<b>300</b>	<b>150</b>	<b>25</b>	<b>25</b>	<b>550</b>

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#### Elective II:

- CH 511 Nano Science and Technology
- SE 505 Renewable Energy & Energy Management
- ME 508T Computational Fluid Dynamics
- Modelling and simulation

#### Elective III:

- CH 512 Colloids and Interfacial Engineering
- CH 513 Complex Fluids
- EN 514 Carbon Sequestration and Clean Development Mechanism

