

B.Tech.(Chemical Engineering)

Semester-I (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-411	Engineering Mathematics	4	0	0	4	4
2	PH-411	Applied Physics	3	0	2	5	4
3	HU-411	Communication Skills/ Professional Communication	2	0	2	4	3
4	WS-411	Workshop Technology & Practice-I	2	0	4	6	4
5	ME-411	Engineering Drawing	0	0	4	4	2
6	CS-411	Elements of Computer Programming	2	0	4	6	4
7	CH-411	Introduction to Chemical Engineering	3	0	0	3	3
Total			16	0	16	32	24

Semester-II A (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CY-421	Applied Chemistry	3	0	2	5	4
2	MC-421	Environmental Studies	2	0	0	2	2
3	EC-421	Elements of Electronics Engineering	3	0	2	5	4
4	WS-421	Workshop Technology & Practice-II	2	0	4	6	4
5	EE-421	Elements of Electrical Engineering	3	0	2	5	4
6	CH-421	Fluid Flow	3	2	0	5	4
7	CH-422	Fluid and Particle Mechanics	0	0	4	4	2
Total			16	2	14	32	24

UG:Practical Training

TP-401	Two weeks Practical Training during summer vacations					80	S/US
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Semester-III (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-511	Higher Engineering Mathematics	3	0	0	3	3
2	CY-511	Industrial Chemistry	3	0	2	5	4
3	PH-511	Material Science	3	0	2	5	4
4	CH-511	Chemical Process Calculations	3	2	0	5	4
5	CH-512	Chemical Engineering Thermodynamics	3	2	2	7	5
6	CH-513	Chemical Technology-I	3	0	2	5	4
Total			18	4	8	30	24

Semester-IV (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-521	Numerical Analysis	3	0	2	5	4
2	MC-521	Human Values and Professional Ethics	1	0	0	1	0
3	CH-521	Mass Transfer-I	3	2	0	5	4
4	CH-522	Heat Transfer	3	2	2	7	5
5	CH-523	Chemical Reaction Engineering-I	3	2	2	7	5
6	CH-524	Chemical Technology-II	3	0	2	5	4
Total			16	6	8	30	22

Semester-V (UG)

S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	CH-611	Mass Transfer-II	3	2	4	9	6
2	CH-612	Chemical Reaction Engineering-II	3	2	0	5	4
3	CH-613	Industrial Pollution Control	3	2	0	5	4
4	CH-614	Mechanical Operations	3	2	0	5	4
5	CH-615	CAD for Chemical Engineers	2	0	2	4	3
6	CH-616	Seminar	0	0	2	2	1
Total			14	8	8	30	22

Signature
 30/3/16
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 KY →
 LTP
 Total Credit
 302 + 302 = 604

Semester-VI (UG)			L	T	P	Hrs.	Credits
No	Sub Code	Subject Name					
1	CH-621	Elective-I	3	0	0	3	3
2	HU-621	Engineering Economics and Entrepreneurship	3	0	0	3	3
3	CH-622	Process Dynamics & Control	3	2	2	7	5
4	CH-623	Transport Phenomena	3	2	0	5	4
5	CH-624	Process Equipment Design	1	0	4	5	3
6	CH-625	Chemical Process Instrumentation	3	0	2	5	4
7	CH-626	Environmental Testing & Analysis Lab	0	0	2	2	1
Total			16	4	10	30	23

UG:Industrial Training						200	
TP-701	Industrial Training during summer vacations (6 weeks)						

Semester-VII B (UG)			L	T	P	Hrs.	Credits
S.No	Sub Code	Subject Name					
1	CH-711	Elective-II	3	0	0	3	3
2	HU-711	Technical Communication & Soft Skills	2	0	2	4	0
3	CH-712	Plant Design & Economics	3	0	2	5	4
4	CH-713	Modelling & Simulation	3	0	4	7	5
5	CH-714	Chemical Process Safety & Plant Utilities	3	2	0	5	4
6	CH-715	Project	0	0	4	4	2
7	TP-701E	Industrial Training (Evaluation Only)					2
Total			14	2	12	28	20

Semester-VIII (UG)			L	T	P	Hrs.	Credits
S.No	Sub Code	Subject Name					
1	CH-721	Elective-III	3	0	0	3	3
2	OE-729 *	OP-Elective	3	0	0	3	3
3	CH-723	Computational Techniques for Chemical Engineers	2	2	0	4	3
4	CH-724	Energy Technology	3	0	2	5	4
5	CH-725	Petroleum Refining Engineering	3	0	2	5	4
6	CH-726	Project	0	0	8	8	4
Total			14	2	12	28	21

Elective I (CH-621)

- A. Energy Audit & Management
- B. Polymer Science & Engineering
- C. Pulping & Bleaching Technology
- D. Paint Technology
- E. Electrochemical Technology

Elective II (CH-711)

- A. Stock Preparation & Paper Making
- B. Novel Separation Techniques
- C. Advanced Polymer Materials
- D. Agro-Residue Utilization
- E. Hazardous Waste Management

Elective III (CH-721)

- A. Chemical Recovery Processes
- B. Solid Waste Management
- C. Petrochemical Technology
- D. Application of Nano Technology in Chemical Engineering
- E. Rubber Technology



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