Department of Chemical Engineering: B.Tech Curriculum

Semester 1

	L	T	E	P	O	C	Cat
Math. 1	3	1	0	0	6	10	S
Physics. 1	3	1	0	0	6	10	S
Chemistry 1	3	1	0	0	6	10	S
Thermodynamics	3	1	0	0	6	10	E
Physics Lab.1	0	0	0	3	1	4	S
Chemistry Lab	0	0	0	3	0	3	S
Ecology and Envt	2	0	0	0	0	0	
Life Skills	0	0	0	0	3	0	
NSS/NSO/NCC	0	0	0	0	2	0	
Total	14	4	0	6	30	**47**	

Winter

	L	T	E	P	O	C	Cat
Workshop	0	0	0	3	0	**3**	E

Semester 2

	L	T	E	P	O	C	Cat
Math. 2	3	1	0	0	6	10	S
Physics. 2	3	1	0	0	6	10	S
Computational Engineering	3	0	0	3	6	12	E
Principles & Calculations in ChE	3	1	0	0	6	10	P
Engineering Mechanics	3	1	0	0	6	10	E
Total	15	4	0	3	30	**52**	

Summer

	L	T	E	P	O	C	Cat
Workshop	0	0	0	3	0	**3**	E

Semester 3

	L	T	E	P	O	C	Cat
Math Elective	3	0	0	0	6	9	S
Chemical Engg. Thermodynamics	3	1	0	0	6	10	P
Continuum Mechanics & TP	3	1	0	0	6	10	P
Computational Techniques	3	1	0	3	8	15	P
Humanities 1	3	0	0	0	6	9	H
Total	15	3	0	3	32	**53**	

Semester 4

	L	T	E	P	O	C	Cat
Mom Transfer & Mechanical Operations	3	1	0	0	6	10	P
Fundamentals of Heat & Mass Tr	3	1	0	0	6	10	P

Thermodynamics Lab	0	0	0	3	2	5	P
Chemistry Elective	3	0	0	0	6	9	S
Basics of EE	3	1	0	0	6	10	E
Humanities 2	3	0	0	0	6	9	H
Total	15	3	0	3	32	**53**	

Semester 5

	L	T	E	P	O	C	Cat
Applications of Mass Transfer	3	1	0	0	6	10	P
CRE	3	1	0	0	6	10	P
Mom Transfer &MOLab	0	0	0	3	2	5	P
Heat and Mass Transfer Lab	0	0	0	3	2	5	P
Dept Elective 1	3	0	0	0	6	9	P
Life Sciences	3	0	0	0	6	9	S
Total	12	2	0	6	28	**48**	

Semester 6

	L	T	E	P	O	C	Cat
Materials Science	3	1	0	0	6	10	P
Process Control	3	1	0	0	6	10	P
Dept Elective 2	3	0	0	0	6	9	P
Dept Elective 3	3	0	0	0	6	9	P
Heat and Mass Transfer Lab 2	0	0	0	3	2	5	P
CRE Lab	0	0	0	3	2	5	P
Total	12	2	0	6	28	**48**	

Semester 7

	L	T	E	P	O	C	Cat
Plant, Process & Product Design	3	1	0	0	6	10	P
Chemical Technology	3	1	0	0	6	10	P
Plant, Process & Product Design Lab	0	0	0	3	2	5	P
Humanities 3	3	0	0	0	6	9	H
Dept Elective 4	3	0	0	0	6	9	P
Total	12	2	0	3	26	**43**	

Semester 8

	L	T	E	P	O	C	Cat
Dept Elective 5	3	0	0	0	6	9	P
Professional Ethics	2	0	0	0	0	0	
Total	5	0	0	0	6	9	

Note: Indicated credits are for core programme including departmental electives (5). In addition, 72 credits of free electives (17%) have to be taken from any department including Chemical Engineering in V semester (1), VI semester (2), VII semester (2) and VIII semester (3). The number in the parenthesis indicates suggested number of electives.

B.Tech (honours):B.Tech project worth 13 credits in VII semester + 14 credits in VIII semester over and above the regular B.Tech requirement.