

Semester-Wise Course Structure

(w.e.f. 2026-27)

Program: B. Tech in Chemical Engineering (Major: Petrochemicals and Polymers Engineering)

Batch 2026-30

Semester 1 (First Year: Odd Sem)							
Sl.	Course_Title	Course_Code	Course Category	L	T	P	Credit
1	Classical Physics	PY111	IS	3	1	0	11
2	Inorganic & Physical Chemistry	CY111	IS	3	1	0	11
3	Applied Mathematics-1	MA123	IS	3	1	0	11
4	Engineering Thermodynamics	CH161	IE	3	1	0	11
5	Physics Lab	PY111L	IS	0	0	2 / 2	1
6	Chemistry Lab	CY111L	IS	0	0	2 / 2	1
7	Workshop Practices	ME131	EP	0	0	3	3
8	Petrochemicals & Polymer Engineering Practices	CH113	EP	1	0	2	5
9	Universal Human Values	HU101	HU	1	1	0	5
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*Basic English		LM101	LM	1	2	0	7

*Basic English to be taken by a student by recommendation after Diagnostic Test

Semester 2 (First Year: Even Sem)							
Sl.	Course_Title	Course_code	Course Category	L	T	P	Credit
1	Modern Physics	PY121	IS	2	1	0	8
2	Organic and Hydrocarbon Chemistry	CY121	IS	3	1	0	11
3	Applied Mathematics-2	MA124	IS	3	1	0	11
4	Computer Programing	CS101	IE	3	1	0	11
5	Fluid Mechanics	CH121	IE	3	1	0	11
6	Physics Lab	PY121L	IS	0	0	2 / 2	1
7	Chemistry Lab	CY121L	IS	0	0	2 / 2	1
8	Computer Programing Lab	CS101L	IE	0	0	2	2
9	Engineering Visulization		EP	0	1	3	5
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Summer Term 1 st Year (After 2 nd Sem)							
Sl.	Course_Title	Course_code	Course Category	L	T	P	Credit
1	Summer Internship (Two Weeks)	CH217	DP	0	0	14	2

Semester 3 (Second Year: Odd Sem)							
Sl.	Course_Title	Course_code	Course Category	L	T	P	Credit
1	Applied Mathematics-3	MA222	IS	3	1	0	11
2	Fundamentals of Electronics Engineering	ECE102	IE	3	1	2	13
3	Chemical Engineering Thermodynamics	CH262	DC	3	1	0	11
4	Mass & Energy Balances	CH171	DC	2	1	0	8
5	Fluid Flow and Mechanical Operations	CH224	DC	3	1	2	13
6	Fundamentals of Polymer & Petrochemicals	CH191	DE 1	2	0	0	6
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Semester 4 (Second Year: Even Sem)							
Sl.	Course_Title	Course_code	Course Category	L	T	P	Credit
1	Materials Science and Strength of Materials	CH212	DC	3	1	0	11
2	Mass Transfer Operations-1	CH274	DC	3	1	0	11
3	Petroleum Refining Engineering	CH281	DC	3	0	0	9

