

CORE MODULES

Under-Graduate Programs - Chemical Engineering

Sl. No	Category	Total number of Credits
1	University Core	48
2	University Elective	3
3	Programme Core	114
4	Programme Elective	15
Minimum Total Number of Credits		180

B.Tech. Breakup of Category

Category	Number of Credits	Percentage %	Recommended %
Humanities	13	7.2%	8%
Engineering	121	67.2%	66%
Management	11	6.1%	6%
Sciences	35	19.4%	20%
Total	180	100%	100%

B.Tech. Breakup of University Core

Sl. No	Category	Total number of Credits
1	Humanities	12
2	Engineering	10
3	Management	3
4	Sciences	23

University Core Courses

Course Code	Course Name	Credit Structure			
		L	T	P	C
CHE122	Chemical Process Calculations	3	1	0	4
CHE211	Engineering Mechanics	3	1	0	4
CHE212	Environmental Studies	3	0	0	3
CHE213	Process Fluid Mechanics	2	1	2	4
CHE214	Physical Chemistry/ Organic Chemistry	3	0	2	4
CHE215	Unit Operations	3	0	0	3
CHE216	Unit Operations Lab	0	0	2	1
CHE221	Chemical Engineering Thermodynamics	3	1	0	4
CHE222	Mass and Heat Transfer	3	0	0	3
CHE223	Chemical Process Technology	3	1	0	4
CHE224	Applied Numerical Analytical Methods	3	1	0	4
CHE225	Plant Utilities	3	1	0	4
CHE226	Material Science	2	1	0	3
CHE227	Mass and Heat transfer lab	0	0	2	1
CHE311	Transport Phenomena	3	1	0	4
CHE312	Mass Transfer Operations	3	0	0	3
CHE313	Chemical Reaction Engineering I	3	1	0	4
CHE314	Fuel and Oils	1	0	2	2
CHE315	Industrial Economics & Management	3	0	0	3
CHE316	Instrumentation & Process Control	3	1	0	4
CHE318	Chemical Engineering Lab	0	0	2	1
CHE321	Chemical Reaction Engineering II	3	1	0	4
CHE322	Fluid Particle Mechanics	3	1	0	4
CHE323	Process Equipment Design & Economics	3	0	2	4
CHE324	Industrial Waste Treatment	3	0	0	3
CHE327	Industrial Training	-	-	-	1
CHE411	Comprehensive Exam	-	-	-	2
CHE412	Chemical Process Design	3	1	0	4
CHE413	Indl Site Visits/Seminar	-	-	-	2
CHE414	Application of Nanostructures in Chemical engineering	3	0	0	3
CHE417	Professional Ethics	2	0	0	2
CHE421	Major Project	-	-	-	20
HUM201	Psychology & Sociology	2	0	0	2
MAT101	Engineering Mathematics I	3	1	0	4
MAT102	Engineering Mathematics II	3	1	0	4
MAT201	Engineering Mathematics III	2	1	0	3