

B.Tech in Chemical Engineering

The Chemical Engineering degree at IIT Gandhinagar is a passport to many challenging careers. The undergraduate experience includes course work, independent research experience and a host of departmental activities. The total BTech strength is 30 students.

Bachelor of Technology: First Year *

Sem. I	FP 100 Foundation Programme	HS 101-109 Language	LS 101 Intro to Life Sciences	MA 101 Mathematics - 1	ES 101 Engineering Graphics	ES 102 OR ES 112 Computing OR Introduction to Computing	ES 103 Intro to Electrical Systems	PE 101 Physical Education	
Sem. II	HS 151 Economics	FP 101 Introduction to Engineering	MA 102 Mathematics - 2	PH 101 Physics	CY 202 Chemistry Lab	ES 104 Intro to Analog and Digital Electronics	ES 105 Electrical and Electronics Lab	ES 106 Manufacturing and Workshop Practice	PE 102 Physical Education

* First year is common to all disciplines. It includes Physical Education PE 101 and PE 102 in first and second semester respectively.

Bachelor of Technology: Chemical Engineering

Sem. III	HS 221 Introduction to Philosophy	MA 201 Mathematics - 3	CH 201 General Chemistry	PH 102 Physics Lab	ES 201 Intro to Design and Innovation	ES 211 Thermodynamic	CL 201 Chemical Process Calculation
Sem. IV	HS 201-209 World Civilization / Culture / History	MA 202 Mathematics - 4	ES 202 Introduction to Materials	ES 221 Mechanics of Solids	ES 212 Fluid Mechanics	CL 251 Fluid Mechanics Lab	
Sem. V	HS Elective	BS Elective	CL 221 Chem. Engg. Thermodynamics	CL 322 Chemical Reaction Engineering	ES 311 Heat and Mass Transfer	CL 351 Heat Transfer & Thermodynamics Lab	
Sem. VI	HS Elective	CL 321	CL 422	CL 424	CL 352		

		Separation Processes	Process Control	Process Analysis and Simulation	Mass Transfer & Reaction Engg. Lab		
Sem. VII	HS Elective	Open Elective	Open Elective	CL 425 Process Synthesis and Design	CL 451 Process Dynamics & Control Lab.		
Sem. VIII	HS Elective	BS Elective	Open Elective	Open Elective			