

School of Engineering
Bachelor's Degree in Chemical Engineering
(Reference Plan 2016)
August Admission

1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester	8th Semester	9th Semester
Being a University Student 6	Person and Meaning of Life 6	Ethics 9	Person and Transcendence 6	Classical and Contemporary Humanism 9	Leadership 6	General Study Workshop III 3	Professional Elective III 6	Professional Elective IV 6
Differential Calculus 7	Integral Calculus 7	Multivariate Calculus 9	Differential Equations 7	Professional Elective I 6	Professional Elective II 6	Social Responsibility and Sustainability ** 6	Practicum I 9	Free Elective II 6
Advanced Mathematics 7	Linear Algebra 7	Probability and Statistics 7	General Study Workshop II 3	Chemical Equilibrium 6	Free Elective I 6	Separation Processes I 8	Separation Processes II 8	Practicum II 9
General Study Workshop I 3	Statistics 9	Dynamics 9	Thermodynamic Properties 6	Transport Phenomena 9	Fluid Flow 8	Heat Transfer* 7	Financial Engineering* 6	Industrial Plant Design 7
General Chemistry 7	Inorganic Chemistry 7	Electric Circuits I 6	Organic Chemistry I 8	Analytical Chemistry* 8	Kinetics and Catalysis 6	Chemical Reactor Engineering 8	Equipment Design and Selection 8	Entrepreneurship and Innovation 6
Computer-Aided Design 6	Environmental Engineering 6	Thermodynamics 8	Mass and Energy Balances 9	Organic Chemistry II 8	Instrumentation and Control 8	Polymer Science 7	Process Simulation and Optimization 6	Technology Innovation ** 6
Algorithms and Programming 6			Sustainable Development 6		Regional I: Electrochemistry 6	Regional II: Decision Analysis 6		Energy Resources 6
42	42	48	45	46	46	45	43	46

Humanities	General Studies	Basic Sciences	Professional Block	Professional Elective Block	Free Elective Block
6	3	10	34	4	2
42	9	75	241	24	12

Total credits 403

Total subjects 59

* Subject given in English

** Online subject