

Chemical Engineering

Duration

Ten semesters

Degree

Chemical Engineer

Objectives

The main objective is to achieve a competent professional in the disciplines of organic and inorganic chemical processes, their technologies, and the industries they involve, allowing them to perform efficiently in large, medium, and small-scale companies, in both public and private institutions, and in the general environment.

Occupational Field

Chemical Engineers primarily work in the field of process industries. Additionally, these professionals also teach, do research and work as private and public consultants.

Professional Profile

Professionals in Chemical Engineering carry out the study and technological development of procedures related to various chemical processes, both on an experimental and industrial/commercial scale. These processes transform the nature of substances, making them useful to meet human needs. They plan, design, evaluate, construct, and operate facilities for these purposes, to contribute to societal well-being and environmental protection.

Study Plan

YEAR	SEM.	N°	SUBJECT	HOURLY CREDIT
1	1	1	Algebra and Analytical Geometry	7.00
1	1	2	Calculus I	8.00
1	1	3	Chemistry	5.00
1	1	4	Introduction to Chemical Engineering	5.00



1	2	5	General and Inorganic Chemistry	9.00
1	2	6	Physics I	10.00
1	2	7	Computing	5.00
2	3	8	Calculus II	8.00
2	3	9	Physics II	8.00
2	3	10	Drawing and Representation Systems	6.00
2	4	11	Organic Chemistry	8.00
2	4	12	Chemical Thermodynamics I	7.00
2	4	13	Numerical Methods	4.00
2	4	14	Statistics	5.00
3	5	15	General Analytical Chemistry	8.00
3	5	16	Chemical Thermodynamics II	7.00
3	5	17	Energy Technology	7.00
3	5	18	Environmental Technology	4.00
3	6	19	Physical Chemistry	8.00
3	6	20	Transport Phenomena	8.00
3	6	21	Industrial Materials and Installations	8.00
4	7	22	Engineering of Chemical Reactions I	7.00
4	7	23	Occupational Health and Safety	5.00
4	7	24	Unit Operations	7.00
4	7	25	Microbiology	5.00
4	8	26	Chemical Reactions Engineering II	7.00
4	8	27	Separation Processes I	8.00
4	8	28	Biochemical Reactions Engineering	5.00
5	9	29	Law and Legislation	4.00
5	9	30	Separation Processes II	8.00



5	9	31	Electrochemical Reactions Engineering	7.00
5	9	32	Production Management	5.00
5	9	33	Industrial Installation Project	0.00
5	10	33	Industrial Installation Project	0.00
5	10	34	Process Systems Engineering	8.00
5	10	35	Process Control	7.00
5	10	36	Economic Engineering	5.00
				Total Subjects: 37