

Faculty of Chemical Sciences of Ciudad Real Chemical Engineering		
ECTS Co-ordinator	Name	Prof. Juan Francisco Rodriguez
	Address	Facultad de Ciencias Químicas Campus Universitario, s/n 13071. Ciudad Real.
	Telephone nº	+34-926-295300
	Extension	Ext.3416
	Fax	+34-926-295301
	e-mail	juanfran@inqu-cr.uclm.es
Dean or Director	Name	Antonio Antiñolo García
	Address	Facultad de Ciencias Químicas Campus Universitario, s/n 13071. Ciudad Real.
	Telephone nº	+34-926-295300
	Extension	3471
	Fax	+34-926-295301.
	e-mail	cmartin@qui-cr.uclm.es
Centre Details	Address	Facultad de Ciencias Químicas Campus Universitario, s/n 13071. Ciudad Real.
	Telephone nº	+34-926-295300
	e-mail	cmartin@qui-cr.uclm.es
Description of the Syllabus	Professional Qualification	Degree in Chemical Engineering
	Duration	Five years
	Division in Cycles	Two cycles

Name of the Faculty/Centre	Faculty of Chemical Sciences of Ciudad Real
Professional Qualification	Chemical Engineering
Date of the Syllabus	1999
Overall number of classes in UCLM credits	350 UCLM credits
Overall number of classes in ECTS credits	300 ECTS credits

First Year

Code	Subject	ECTS Credits
	Annual Subjects	
57601	Mathematics	13
57602	Physics for Engineers	13
57603	Fundamentals of Chemistry	8
	1st Semester	
57604	Technical Design	6
57605	Basic Principles of Chemical Engineering	4
	2nd Semester	
57606	Analytical Chemistry	6
57607	Inorganic Chemistry	6
57608	Statistics	4
	TOTAL	60

Second Year

Code	Subject	ECTS Credits
	Annual Subjects	

57609	Physical Chemistry	8
57610	Numerical and Computer Methods in Chemical Engineering	8
	<i>Optional Course I</i>	4
	<i>Free Configuration</i>	4
	1st Semester	
57611	Organic Chemistry	6
57612	Industrial Analytical Chemistry	4
57613	Basic Principles in Chemical Engineering	6
57614	Laboratory of Chemistry I	5
	2nd Semester	
57615	Chemical Engineering Thermodynamics	4
57616	Transport Phenomena	6
57617	Laboratory of Chemistry II	5
	TOTAL	60

Third Year

Code	Subject	ECTS Credits
	Annual Subjects	
57618	Fluid Mechanics and Heat Transfer	8
	1st Semester	
57619	Chemical Engineering Kinetics	4
57620	Materials Engineering	5
57621	Electrical Engineering	4
57622	Chemical Engineering Laboratory I	5
	<i>Optional Course II</i>	4
	2nd Semester	
57623	Engineering Thermodynamics	4
57624	Heterogeneous Catalysis	7
57625	Chemical Engineering Laboratory II	7
	<i>Optional Course III</i>	4
	<i>Free Configuration</i>	8
	TOTAL	60

Fourth Year

Code	Subject	ECTS Credits
	Annual Subjects	
57634	Separation Processes	10
57635	Reactor Engineering and Design	7
57636	Industrial Chemistry	7
	1st Semester	
57637	Design of process equipment	6
57638	Process Economics	5
	<i>Optional Course IV</i>	5
	2nd Semester	
57639	Process Dynamics and Control	6
57640	Environmental Engineering	5
57641	Chemical Engineering Laboratory III	5
	<i>Free Configuration</i>	4
	TOTAL	60

Fifth Year

Code	Subject	ECTS Credits
	Annual Subjects	
57642	Chemical Engineering Projects	8
9005	Practical Development	9
	1st Semester	
57643	Process Simulation and Optimisation	7

57644	Chemical Engineering Laboratory IV	5
	<i>Optional Course V</i>	5
	<i>Optional Course VI</i>	4
	2nd Semester	
	<i>Optional Course VII</i>	4
	<i>Free configuration</i>	18
	TOTAL	60

Optional Course

Code	Subject	ECTS Credits
	OPTIONAL COURSE I	
57626	Intensification in Inorganic Chemistry	4
57627	Mineralogy	4
57628	Instrumental Physics	4
	OPTIONAL COURSE II	
57629	Intensification in Organic Chemistry	4
57630	Intensification in Physical Chemistry	4
	OPTIONAL COURSE III	
57631	Industrial Electrochemistry	4
57632	Documentation and Communication in Chemical Engineering	4
57633	Homogeneous Catalysis	4
	ITINERARY A: Process Engineering	
	OPTIONAL COURSE IV	
57645	Technology of Petroleum	5
57646	Planning and Control of Industrial Production	5
	OPTIONAL COURSE V	5
57649	Petrochemical Processes	
57650	Quality management in industrial chemistry	5
	OPTIONAL COURSE VI	
57651	Simulators of Chemical Processes	4
57652	Synthetic Polimers	4
	OPTIONAL COURSE VII	
57653	Health and industrial safety	4
57654	Advanced control of processes	4
57655	Intensification in Unit Operations	4
	ITINERARY B: Environmental Engineering	
	OPTIONAL COURSE IV	
57647	Industrial Biochemistry	5
57648	Environmental Analysis	5
	OPTIONAL COURSE V	
57656	Waste Management and Soil Decontamination	5
57657	Waste Water Treatment Engineering	5
	OPTIONAL COURSE VI	
57658	Atmospheric Chemistry	4
57659	Biochemical Engineering	4
	OPTIONAL COURSE VII	
57660	Urban Solid Waste Management	4
57661	Air Pollution Engineering	4
57662	Energy Resources and Environment	4