

# CHEMICAL ENGINEERING DEGREE

## International accreditation EUR-ACE



ECTS CREDITS	
Basic training (FB)	66
Compulsory (OB)	138
Optional (OP)	24
End-of-degree Project (TFG)	12
<b>Total</b>	<b>240</b>

Centre ([see](#))



**CLICK ON THE CODE OF EACH SUBJECT TO ACCESS THE COURSE HANDBOOK**

## FIRST YEAR

Code	Subject	Credits	Type	Semester
<a href="#">16533</a>	MATHEMATICS I	9	FB	1
<a href="#">16535</a>	CHEMISTRY	9	FB	1
<a href="#">16536</a>	FUNDAMENTALS OF CHEMICAL ENGINEERING	6	OB	1
<a href="#">19339</a>	PHYSICS I	6	FB	1
<a href="#">16537</a>	MATHEMATICS II	6	FB	2
<a href="#">16538</a>	STATISTICS	6	FB	2
<a href="#">16539</a>	COMPUTER-AIDED DESIGN	6	FB	2
<a href="#">16540</a>	COMPUTER METHODS	6	FB	2
<a href="#">19340</a>	PHYSICS II	6	FB	2

## SECOND YEAR

Code	Subject	Credits	Type	Semester
<a href="#">16543</a>	FLUID ENGINEERING	6	OB	1
<a href="#">19341</a>	EXPERIMENTATION IN CHEMISTRY	6	FB	1
<a href="#">19342</a>	THERMODYNAMICS OF INDUSTRIAL PROCESSES	6	OB	1
<a href="#">19343</a>	INDUSTRIAL ANALYTICAL CHEMISTRY	6	OB	1
<a href="#">19344</a>	INDUSTRIAL ORGANIC CHEMISTRY	6	OB	1
<a href="#">16545</a>	ECONOMY AND BUSINESS ADMINISTRATION	6	FB	2
<a href="#">16547</a>	BIOLOGY AND BIOCHEMISTRY	6	OB	2
<a href="#">16548</a>	HEAT TRANSFER ENGINEERING	6	OB	2
<a href="#">16553</a>	MATERIAL SCIENCE AND ENGINEERING	6	OB	2
<a href="#">19345</a>	ENGINEERING LABORATORY	6	OB	2

### THIRD YEAR

Code	Subject	Credits	Type	Semester
<u>16552</u>	SEPARATION PROCESSES	6	OB	1
<u>16557</u>	MECHANICAL DESIGN	6	OB	1
<u>19346</u>	CHEMICAL REACTION ENGINEERING: HOMOGENEOUS PROCESSES	6	OB	1
<u>19347</u>	PROCESS AND PRODUCT ENGINEERING	6	OB	1
<u>19348</u>	MECHANISMS AND MACHINES SCIENCE	6	OB	1
<u>16556</u>	ENVIRONMENTAL ENGINEERING	6	OB	2
<u>19349</u>	EXPERIMENTATION IN CHEMICAL ENGINEERING	6	OB	2
<u>19350</u>	CHEMICAL REACTION ENGINEERING: HETEROGENEOUS PROCESSES	6	OB	2
<u>19351</u>	ANALYSIS OF INDUSTRIAL-CHEMICAL PROCESSES	6	OB	2
<u>19352</u>	ELECTRICAL ENGINEERING	6	OB	2

### FOURTH YEAR

Code	Subject	Credits	Type	Semester
<u>19353</u>	ELECTRONICS, AUTOMATION AND CONTROL	9	OB	Annual
<u>19354</u>	PROCESS PLANT DESIGN	9	OB	Annual
<u>19355</u>	END-OF-DEGREE PROJECT	12	TFG	Annual
<u>16559</u>	CHEMICAL ENGINEERING LABORATORY III	6	OB	1
	OPTIONAL SUBJECTS	24	OP	1 or 2

### OPTIONAL SUBJECTS

#### ROUTE: SCIENTIFIC INTENSIFICATION

Code	Subject	Credits	Type	Semester
<u>16561</u>	ENVIRONMENTAL CHEMISTRY	6	OP	1
<u>16564</u>	INSTRUMENTAL TECHNIQUES OF ANALYSIS	6	OP	1

#### ROUTE: TECHNOLOGICAL INTENSIFICATION

Code	Subject	Credits	Type	Semester
<u>16567</u>	ELECTROCHEMICAL ENGINEERING	6	OP	1
<u>16568</u>	BIOTECHNOLOGY PROCESS ENGINEERING	6	OP	1
<u>16571</u>	COMPUTATIONAL METHODS IN CHEMICAL ENGINEERING	6	OP	1
<u>16572</u>	INDUSTRIAL WASTES TREATMENT AND DISPOSAL	6	OP	1
<u>16565</u>	WATER AND WASTEWATER TREATMENT PLANT DESIGN	6	OP	2
<u>16566</u>	TECHNOLOGY FOR WASTE GAS TREATMENT	6	OP	2
<u>16569</u>	PROCESS SIMULATION AND OPTIMIZATION	6	OP	2
<u>16570</u>	ALTERNATIVE ENERGY RESOURCES	6	OP	2

#### INTERNSHIP

Code	Subject	Credits	Type	Semester
<u>16573</u>	EXTERNAL PRACTICAL	6	OP	Annual

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CENTRE

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[Web page](#) ↗