Universidad Autónoma de Madrid

ACADEMIC YEAR 2021/2022

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
Total	**240**

Centre (see)

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

FIRST YEAR

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

SECOND YEAR

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

THIRD YEAR

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

FOURTH YEAR

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

OPTIONAL SUBJECTS

ROUTE: SCIENTIFIC INTENSIFICATION

Code	Subject	Credits	Type	Semester
16564	INSTRUMENTAL TECHNIQUES OF ANALYSIS	6	OP	1

ROUTE: TECHNOLOGICAL INTENSIFICATION

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

INTERNSHIP

Code	Subject	Credits	Type	Semester
16573	EXTERNAL PRACTICAL	6	OP	Annual

CENTRE

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