



**MASTER'S DEGREE IN CHEMICAL AND BIOTECHNOLOGICAL
PROCESS ENGINEERING
DEGREE PROGRAMME 2015/2016**

Course contents are available at this [link](#)


1st year – 1st semester

Teaching course	SSD*	TAF*	Credits	h
Analysis of Chemical and Biotechnological Processes	ING-IND/26	B	9	90
Principles of Chemical Engineering and Processes	ING-IND/24	B	9	90
Total Credits 1 st year – 1 st semester			18	


1st year – 2nd semester

Teaching course	SSD	TAF	Credits	h
Environmental Chemical Engineering	ING-IND/25	B	9	90
Industrial and Energetic Processes	ING-IND/27	B	9	90
Environmental Conscious Energy and Chemical Processes	ING-IND/25	B	9	90
Total Credits 1 st year – 2 nd semester			27	

2nd year – 1st semester

Teaching course	SSD	TAF	Credits	h
Process modeling and simulation 	ING-IND/26	B	9	90
Chemical and Biological Reactors	ING-IND/24	B	9	90
Other activities		F	3	
Total Credits 2 nd year – 1 st semester			21	

2nd year – 2nd semester

Teaching course	SSD	TAF	Credits	h
Advanced systems of process control 	ING-IND/26	B	9	90
Elective activities ¹		D	9	
Internship		F	6	
Final Exam		E	12	
Total Credits 2 nd year – 2 nd semester			36	



Three courses among:

Teaching course	SSD	TAF	Credits
Fundamentals of Machine Design (1 st year 1 st semester)	ING-IND/14	C	6
Energy Systems 2 (1 st year 1 st semester)	ING-IND/09	C	6
Biochemistry (1 st year 1 st semester)	BIO/10	C	6
Chemistry and Technology of Food (1 st year 1 st semester)	CHIM/10	C	6
Microbiology (1 st year 2 nd semester)	MED/07	C	6
Applied Biotechnology (2 nd year 1 st semester)	CHIM/08	C	6
Physical Chemistry of Interphases (2 nd year 1 st semester)	CHIM/02	C	6
Project management (2 nd year 1 st semester)	SECS-P/08	C	6
Total credits			18

Total credits 120

***Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity

- (1) The elective activities must be consistent with the personal educational plan and they need approval by the Degree Programme Board.