





**MASTER'S DEGREE IN
CHEMICAL AND BIOTECHNOLOGICAL PROCESS ENGINEERING
DEGREE PROGRAMME 2016/2017**

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

1st year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Analysis of Chemical and Biotechnological Processes	ING-IND/26	B	9	90
1	Principles of Chemical Engineering and Processes	ING-IND/24	B	9	90
2	Integrated course: Industrial and Energetic Processes				
2	- Module: Industrial Processes	ING-IND/27	B	6	60
2	- Module: Energetic Processes	ING-IND/27	B	6	60
2	Environmental Conscious Energy and Chemical Processes	ING-IND/25	B	9	90

2nd year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Process modeling and simulation 	ING-IND/26	B	9	90
1	Chemical and Biological Reactors	ING-IND/24	B	9	90
2	Advanced systems of process control 	ING-IND/26	B	9	90
2	Environmental Chemical Engineering	ING-IND/25	B	6	60

Additional credits to be acquired

Sem	Activity	SSD*	TAF*	Credits	h
	3 courses from tab 1		C	18	
	Elective activities ¹		D	9	
	Other activities		F	3	
	Internship		F	6	
	Final Examination		E	12	

TOTAL CREDITS 120

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



Tab 1. Courses TAF C (3 from the list)

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

***Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity