





**MASTER'S DEGREE IN  
CHEMICAL AND BIOTECHNOLOGICAL PROCESS ENGINEERING  
DEGREE PROGRAMME 2019/2020**

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

**1<sup>st</sup> year**

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Applied Statistics for Industrial Engineering	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

**2<sup>nd</sup> 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 <sup>1</sup>		D	9	
	English Language Test <sup>2</sup>		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.
- (2) The credits of European language level can be acquired:
  - passing the English language test at B2 European level (CEFR) at Centro Linguistico d'Ateneo,
  - showing appropriate certification of B2 European level (CEFR) knowledge.



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

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

**\*Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity