



Facoltà di Ingegneria e Architettura

MASTER'S DEGREE IN CHEMICAL AND BIOTECHNOLOGICAL PROCESS ENGINEERING DEGREE PROGRAMME 2023/2024

Course contents are available at this link

1st year

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Applied Statistics for Industrial Engineering	ING-IND/26	В	9	90
1	Principles of Chemical Engineering and Processes	ING-IND/24	В	9	90
	Integrated course: Industrial and Energetic Processes				
1	- Module: Industrial Processes	ING-IND/27	В	6	60
2	- Module: Hydrogen Technology and Fuel Cells	ING-IND/27	В	6	60
2	Environmental Conscious Energy and Chemical	ING-IND/25	В	9	90
_	Processes	1110 1110/25			30

2nd year

	. , ,				
Sem	Teaching course	SSD*	TAF*	Credits	h
1	Process modeling and simulation	ING-IND/26	В	9	90
1	Chemical and Biological Reactors	ING-IND/24	В	9	90
1	Safety and environmental chemical engineering with design project	ING-IND/25	В	12	120
2	Advanced systems of process control	ING-IND/26	В	9	90

Additional credits to be acquired

Sem	Activity	SSD*	TAF*	Credits	h
	2 courses from tab 1		С	12	
	Elective activities ¹		D	9	
	English Language Test or other activities ²		F	3	
	Internship		F	6	
	Final Examination		Е	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. If the student can show appropriate certification of B2 European level (CEFR) knowledge other activities could be acquired.







Tab 1. Courses TAF C (2 from the list)

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

*Abbreviations

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity