

UNIVERSITÀ DEGLI STUDI DI PALERMO

Department: Engineering A.Y. 2018/2019

DEGREE COURSE IN CHEMICAL ENGINEERING - PRODUCT CHEMICAL ENGINEERING -

Characteristics



Class of Master's Degree (MSc) on Chemicl Engineering (LM-22)



2 YEARS



PALERMO



FREE ACCESS



2025

Educational objectives

The 2nd cycle degree course aims at providing advanced knowledge in the area of traditional Chemical engineering, as well as advanced competences enabling graduates to interact with other advanced sectors in the field of scientific and technological innovation.

The course will therefore provide for mandatory and elective courses, related to applied kinetics and chemical reactors, safety and process optimization, equipment design, science and technology of materials, which are functional to the acquisition of useful knowledge tools for the design and management of traditional as well as innovative chemical processes.

Individual courses aim at providing basic knowledge with respect to those sectors which represent the trends in the development of chemical engineering, in close synergy with other disciplines, such as nanotechnologies, biotechnologies, energetics and environment.

Typical industrial engineering subjects, such as Machines and Machine elements will also be taught, which are in synergy with professional chemical engineering skills, and functional to job placement.

The course also provides other educational activities, with particular emphasis on advanced seminars, both in traditional chemical engineering and in innovative technologies.

The natural completion of such educational programme is an extensive work for the experimental dissertation, awarded with 24 credits.

Professional opportunities

Chemical engineers may find professional opportunities in the chemical, food, pharmaceutical industry, in material production and processing companies, industrial laboratories, technical units of the public administration and engineering companies

Final examination features

To obtain the degree, students must have acquired 180 credits including those relating to the final examination, in accordance with the Course Regulations. The final test has the objective of assessing the level of maturity and critical skills of the undergraduate, with respect to learning and to the acquired knowledge, on completion of the activities provided by the course syllabus. The final examination consists of a written or oral test, in accordance with the rules fixed every year by the Degree Course Regulations for the final examination, respecting and consistent to the calendar, the ministerial requirements and to the relevant Guidelines of the University.

Subjects 1 ° year	CFU	Sem.	Val.	SSD	TAF
02939 - APPLIED ELECTROCHEMISTRY Santamaria(PO)	9	1	V	ING-IND/23	C
00478 - INDUSTRIAL CHEMISTRY Galia(PO)	9	1	V	ING-IND/27	В
17559 - APPLIED PHYSICAL CHEMISTRY Inguanta(PA)	9	2	V	ING-IND/23	С
19400 - CHEMICAL PROCESS CONTROL Galluzzo(CU)	9	2	V	ING-IND/26	В

Legenda: Per. = periodo o semestre, Val. = Valutazione (V=voto, G=giudizio), TAF= Tipologia Attività Formativa (A=base, B=caratterizzante, C=Affine, S=stages, D=a scelta, F=altre)

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Subjects 1 ° year	CFU	Sem.	Val.	SSD	TAF
07871 - MACHINES Beccari(PA)	9	2	V	ING-IND/08	С
18071 - MATERIALS AND PROCESSES FOR TISSUE AND BIOCHEMICAL ENGINEERING La Carrubba(PA)	9	2	V	ING-IND/22	В
Optional subjects	6				С

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Subjects 2 ° year	CFU	Sem.	Val.	SSD	TAF
19399 - CONCEPTUAL DESIGN OF CHEMICAL PROCESSES Micale(PO)	9	1	V	ING-IND/26	В
07298 - POLYMERS TECHNOLOGY La Mantia(PQ)	6	1	V	ING-IND/22	В
16079 - SAFETY MANAGEMENT Grisafi(PA)	6	2	V	ING-IND/25	В
05917 - FINAL EXAMINATION	24	2	G		Е
Stage and others	3				F
Free subjects	12				D

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OPTIONAL SUBJECTS

Stage and others	CFU	Sem.	Val.	SSD	TAF
09787 - OTHER EDUCATIONAL ACTIVITIES	3	1	G		F
07899 - PROFESSIONAL PRACTICE	3	1	G		F
Optional subjects	CFU	Sem.	Val.	SSD	TAF
17583 - CORROSION AND PROTECTION OF METALS Inguanta(PA)	6	1	V	ING-IND/23	С
17366 - FUNCTIONAL NANOSTRUCTURED MATERIALS: FROM MOLECULES TO NANOMACHINES Dispenza(PO)	6	2	V	CHIM/07	С
17364 - MATERIALS FOR ENERGY STORAGE AND CONVERSION Santamaria(PO)	6	2	V	ING-IND/23	С
18583 - MODELS FOR THERMOFLUID DYNAMICS Ciofalo(PQ)	6	1	V	ING-IND/19	С

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