

**2 YEARS MASTER COURSE in
MATERIALS ENGINEERING AND NANOTECHNOLOGY
DM 270/04**

SSD	Modulo	CFU	Semestre	AF
I Anno – A.A. 2020/2021				
CHIM/07	CHEMISTRY 2	9	I	CARATTERIZZANTE
FIS/03	PHYSICS OF MATTER – MOD. 1	6	I	CARATTERIZZANTE
	PHYSICS OF MATTER – MOD. 2	6		
ING-IND/21	BATTERIES AND FUEL CELLS	9	I	CARATTERIZZANTE
TOTAL CREDITS I SEMESTER		30		
ING-IND/22	SCIENCE, TECHNOLOGY AND SUSTAINABILITY OF POLYMERS	9	II	CARATTERIZZANTE
ING-IND/24	TRANSPORT PHENOMENA II	6	II	AFFINE
ING-IND/23	ELECTROCHEMICAL TECHNOLOGIES	9	II	AFFINE
TOTAL CREDITS II SEMESTER		27		
TOTAL CREDITS I YEAR		57		
II Anno – A.A. 2021/2022				
ING-IND/24	HEAT AND MASS TRANSFER PHENOMENA IN COMPOSITES AND POLYMERS (PROPRIETA' DI TRASPORTO DEI MATERIALI)	9	I	AFFINE
TWO of the following course:				
ING-IND/22	COMPOSITE AND NANOCOMPOSITE MATERIALS (MATERIALI COMPOSITI E NANOCOMPOSITI)	6	I	CARATTERIZZANTE
ING-IND/21	NON-FERROUS METALLURGY (METALLURGIA NON FERROSA)	6	I	CARATTERIZZANTE
ING-IND/22	CERAMICS MATERIALS	6	I	CARATTERIZZANTE
TOTAL CREDITS I SEMESTER		21		
CURRICULUM MATERIALS FOR ELECTRONIC APPLICATIONS				
FIS/03	SEMICONDUCTOR PHYSICS AND TECHNOLOGY (TECNOLOGIA DEI SEMICONDUTTORI)	9	II	CARATTERIZZANTE
ING-INF/01	NANOTECHNOLOGIES FOR ELECTRONICS (NANOTECNOLOGIE PER L'ELETTRONICA)	6	II	AFFINE
CURRICULUM MATERIALS FOR BIOMEDICAL APPLICATIONS				
ING-IND/22	BIOMATERIALS	9	II	CARATTERIZZANTE
ING-IND/34	CELL TISSUES INTERACTION	6	II	AFFINE
Electives:		12		
Students are obliged to choose courses held in the English in a Master degree of the Faculty of Engineering. The choice can't affect single modules belonging to integrated courses.				
(Gli studenti sono obbligati alla scelta di insegnamenti erogati in lingua inglese e attivati sui Corsi di Laurea Magistrale. La scelta non può interessare singoli moduli appartenenti a corsi integrati).				
TOTAL CREDITS II SEMESTER		27		
TRAINING PERIOD (TIROCINIO)		3		
FINAL EXAM (TESI)		12		
TOTAL CREDITS II YEAR		57		
TOTALE		120		