

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

SSD	Modulo	CFU	Semestre	AF
I Anno – A.A. 2021/2022				
CHIM/07	CHEMISTRY 2	9	I	CARATTERIZZANTE
FIS/03	PHYSICS OF MATTER – MOD. 1 PHYSICS OF MATTER – MOD. 2	6 6	I	CARATTERIZZANTE
ING-IND/21	PHYSICAL METALLURGY AND METALS PROCESSING	9	I	CARATTERIZZANTE
	TOTAL CREDITS I SEMESTER	30		
ING-IND/22	SCIENCE, TECHNOLOGY AND SUSTAINABILITY OF POLYMERS	12	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. 2022/2023				
ING-IND/24	HEAT AND MASS TRANSFER PHENOMENA IN COMPOSITES AND POLYMERS (PROPRIETA' DI TRASPORTO DEI MATERIALI)	9	I	AFFINE
	<i>TWO of the following course:</i>			
ING-IND/22	COMPOSITE AND NANOCOMPOSITE MATERIALS (MATERIALI COMPOSITI E NANOCOMPOSITI)	6	I	CARATTERIZZANTE
ING-IND/21	METALLIC MATERIALS: PROPERTIES AND APPLICATIONS	6	I	CARATTERIZZANTE
ING-IND/22	CERAMICS MATERIALS	6	II	CARATTERIZZANTE
	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: 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).	12		
	TRAINING PERIOD (TIROCINIO)	3		
	FINAL EXAM (TESI)	12		
	TOTAL CREDITS II YEAR	63		
	TOTALE	120		