

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

SSD	Modulo	CFU	Semestre	AF
<b>I anno - Cycle 2019</b>				
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
<b>TOTAL CREDITS I SEMESTER</b>		<b>30</b>		
ING-IND/22	SCIENCE AND TECHNOLOGY OF POLYMERS	9	II	CARATTERIZZANTE
ING-IND/24	TRANSPORT PHENOMENA	9	II	AFFINE
ING-IND/23	ELECTROCHEMICAL TECHNOLOGIES	9	II	AFFINE
<b>TOTAL CREDITS II SEMESTER</b>		<b>27</b>		
<b>TOTAL CREDITS I YEAR</b>		<b>57</b>		
<b>II anno – Cycle 2018</b>				
ING-IND/24	HEAT AND MASS TRANSFER PHENOMENA IN COMPOSITES AND POLYMERS	9	I	AFFINE
<i>TWO of the following course:</i>				
ING-IND/22	COMPOSITE AND NANOCOMPOSITE MATERIALS	6	I	CARATTERIZZANTE
ING-IND/21	NON-FERROUS METALLURGY	6	I	CARATTERIZZANTE
ING-IND/22	CERAMICS MATERIALS	6	I	CARATTERIZZANTE
<b>TOTAL CREDITS I SEMESTER</b>		<b>21</b>		
<b>CURRICULUM MATERIALS FOR ELECTRONIC APPLICATIONS</b>				
FIS/03	SEMICONDUCTOR PHYSICS AND TECHNOLOGY	9	II	CARATTERIZZANTE
ING-INF/01	NANOTECHNOLOGIES FOR ELECTRONICS	6	II	AFFINE
<b>CURRICULUM MATERIALS FOR BIOMEDICAL APPLICATIONS</b>				
ING-IND/22	BIOMATERIALS	9	II	CARATTERIZZANTE
ING-IND/34	CELL TISSUES INTERACTION	6	II	AFFINE
<b>Electives:</b>		<b>12</b>		
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).				
ING-INF/01	ELECTRONIC AND PHOTONIC DEVICES (MUTUATO)	6	I	A SCELTA
<b>TOTAL CREDITS II SEMESTER</b>		<b>27</b>		
TRAINING PERIOD (TIROCINIO)		<b>3</b>		
FINAL EXAM (TESI)		<b>12</b>		
<b>TOTAL CREDITS II YEAR</b>		<b>57</b>		
<b>TOTALE</b>		<b>120</b>		