UNIVERSITÀ DI TRENTO
Department of Industrial Engineering

STUDENTS ENROLLED FROM A.A. 2022/2023

Didactic Regulation 2024 & 2025

MASTER COURSE IN MATERIALS ENGINEERING (LM 53) - A.A. 2025/2026

A1 Curriculum Manufacturing and Product Development

FIRST YEAR

FIRST SEMESTER

Esse3 code	N°	Courses	SSD	SSD 2024	CFU	B	C	D	E	F	Duration (hours)	Notes	PROFESSOR
146020	1	Ceramic materials engineering	ING-IND/22	IMAT-01/A	6	6					60		Sglavo Vincenzo
146019	2	Engineering properties of materials	ING-IND/22	IMAT-01/A	9	9					90		Dorigato Andrea
146018	3	Metallic materials engineering	ING-IND/21	IIND-03/C	9	9					90		Straffelini Giovanni
146016	4a	Physics and thermodynamics of materials (Mod. 2 - Thermodynamics of materials)	CHIM/07	CHEM-06/A	6	6					60		Parrino Francesco
		SAFETY COURSES										(1)	
				Tot. 1° sem	*30*	*30*	*0*	*0*	*0*	*0*			

SECOND SEMESTER

Esse3 code	N°	Courses	SSD	SSD 2024	CFU	B	C	D	E	F	Duration (hours)	Notes	PROFESSOR
146016	4b	Physics and thermodynamics of materials (Mod. 1 - Physics of materials)	FIS/03	PHYS-03/A	6	6					60		Quaranta Alberto
146021	5	Corrosion and degradation control of materials	ING-IND/22	IMAT-01/A	6	6					60		Fedel Michele
146017	6a	Polymeric and composite materials engineering (Mod. 1 - Polymeric materials)	ING-IND/22	IMAT-01/A	6	6					60		Fambri Luca
	6b	Polymeric and composite materials engineering (Mod. 2 - Composite materials)	ING-IND/22	IMAT-01/A	6	6					60		Pegoretti Alessandro
		Other activities			3					3		(2)(3)	
				Tot. 2° sem	*27*	*24*	*0*	*0*	*0*	*3*			
				Tot. 1st year	**57**	**54**	**0**	**0**	**0**	**3**			

SECOND YEAR

FIRST SEMESTER

Esse3 code	N°	Courses	SSD	SSD 2024	CFU	B	C	D	E	F	Duration (hours)	Notes	PROFESSOR
145957	7	Mechanics and materials for engineering design	ING-IND/14	IIND-03/A	9		9				90		Benedetti Matteo
140347	8	Product design	ING-IND/22	IMAT-01/A	6		6				60		Rossi Stefano
145483	9	Steelmaking and foundry technologies	ING-IND/21	IIND-03/C	6	6					60		Straffelini Giovanni
	12a	Elective course			6			6					
				Tot. 1° sem	27	*6*	*15*	*6*	*0*	*0*			

SECOND SEMESTER

Esse3 code	N°	Courses	SSD	SSD 2024	CFU	B	C	D	E	F	Duration (hours)	Notes	PROFESSOR
145475	10	Design methods for industrial engineering	ING-IND/15	IIND-03/B	6		6				60		Cristofolini Ilaria
145482	11	Finite elements modeling	ING-IND/14	IIND-03/A	6		6				60	offered by LM 33 (4)	Benedetti Matteo
	12b	Elective course			6			6					
145570		Final project			18				18				
				Tot. 2° sem	*36*	*0*	*12*	*6*	*18*	*0*			
				Tot. 2nd year	**63**	**6**	**27**	**12**	**18**	**0**			

TOTAL CFU	**120**	**60**	**27**	**12**	**18**	**3**

ELECTIVE COURSES

FIRST SEMESTER

Esse3 code	N°	Courses	SSD	SSD 2024	CFU	B	C	D	E	F	Duration (hours)	Notes	PROFESSOR
146299		Laboratory of sustainable materials processing and characterization	ING-IND/22	IMAT-01/A	6			6			60		Dirè Sandra
145532		Powder metallurgy	ING-IND/21	IIND-03/C	6			6			60		Molinari Alberto
145783		Advanced Formula SAE	ING-IND/12	IMIS-01/A	6			6				offered by LM 33	Bosetti Paolo

SECOND SEMESTER

Esse3 code	N°	Courses	SSD	SSD 2024	CFU	B	C	D	E	F	Duration (hours)	Notes	PROFESSOR
145572		Circular economy for materials processing	ING-IND/21	IIND-03/C	6			6			60		Pellizzari Massimo
140427		Glass engineering	ING-IND/22	IMAT-01/A	6			6			60		Sglavo Vincenzo
146300		Laboratory of industrial product and process development	ING-IND/21	IIND-03/C	6			6			60		Pellizzari Massimo
146197		Microelectronics devices, sensors and MEMS	ING-INF/01	IINF-01/A	6			6			60	offered by LM 33	Dalla Betta Gian-Franco
145524		Protection of materials and structures	ING-IND/22	IMAT-01/A	6			6			60		Rossi Stefano

NOTES:

(1) = All students must fulfill **safety training requirements**:
- **General safety training**
- **Specific safety training - Medium Risk**

For any further informations: https://www.unitn.it/en/study/register/documents-and-certificates/safety-training

(2) = The curriculum is considered complete with a total of 3CFU - type F. The credits have to be obtained during the master with the following regulation: https://www.dii.unitn.it/en/121/other-activities-type-f-credits.

(3) = **International students** are required to demonstrate an adequate level of knowledge of the Italian language (level A1).

(4) = Offered by LM 33 - AD 140431 Modeling and design with finite elements.