

MASTER COURSE IN MANAGEMENT AND INDUSTRIAL SYSTEMS ENGINEERING

A2) Curriculum Management and Digitalization

LM31 a.a. 2023-24

			FIRST YEAR									
		FI	RST SEMESTER									
Esse3 code	N°	Courses	SSD	CFU	в	С	D	E	F	Duration (hours)	Notes	PROFESSOR
146004	1a	Digital production and logistics systems - mod. 1 Design of digital production and assembly systems	ING-IND/17	6	6					60		Pilati Francesco
140004	1b	Digital production and logistics systems - mod. 2 Logistics and warehouse management	ING-IND/17	6	6					60		Pilati Francesco
146005		Organizations, human resources and innovation - mod. 1 Organization studies and human resources management	ING-IND/35	6	6					60		Cirella Stefano
		Organizations, human resources and innovation - mod. 2 Management, innovation and new technology	ING-IND/35	6	6					60		Cirella Stefano
146006		Advanced manufacturing and sustainable products - mod. 1 Design of smart and sustainable manufacturing	ING-IND/16	6	6					60		Zanella Caterina
		SAFETY COURSES								•	(1)	
			Tot.	30	30	0	0	0	0			
		SEC	OND SEMESTER	-						-		
Esse3 code	N°	Courses	SSD	CFU	в	с	D	Е	F	Duration (hours)	Notes	PROFESSOR
146006	3b	Advanced manufacturing and sustainable products - mod. 2 Simulation of manufacturing processes	ING-IND/16	6	6					60		Zanella Caterina
146007	42	Dynamics in systems and networks - mod. 1 Dynamical systems	ING-INF/04	6	6					60		Giordano Giulia
110007	4b	Dynamics in systems and networks - mod. 2 Network dynamics	ING-INF/04	6	6					60		Giordano Giulia
146008	5	Decision and risk analysis	SECS-S/06	6		6				60		Brunelli Matteo
146014	6	Project management	ING-IND/17	6	6					60		Molinari Andrea
		Other activities		3					3		(2)	
			Tot.	33	24	6	0	0	3			
			Tot. 1st year	63	54	6	0	0	3			

			SECOND YEAR								
			FIRST SEMESTER								
Esse3 code	N°	Courses	SSD	CFU	в	С	D	Е	F	Duration (hours)	Notes
146012	7	Financial analysis and performance management	SECS-P/07	6		6				60	
146015	8	Machine learning	ING-INF/05	6		6					offered by DISI
145534	9	Optimization models and algorithms	SECS-S/06	6		6				60	
	12a	Elective course		6			6				(3)
			Tot.	24	0	12	6	0	0		
			SECOND SEMESTER								
Esse3 code	N°	Courses	SSD	CFU	в	с	D	E	F	Duration (hours)	Notes
145489	10	Enterprise information system	ING-INF/05	6		6				60	
140473	11	Quality and innovation engineering	ING-INF/07	6		6				60	
	12b	Elective course		6			6				(3)
140458		Final project		15				15			
			Tot.	33	0	12	6	15	0		
			Tot. 2nd year	57	0	24	10	15	0		

TOTAL CFU 120 54 30 12 15 3

PROFESSOR
Candio Paolo
Passerini Andrea
Brunelli Matteo

PROFESSOR									
Mich Luisa									
Petri Dario									

		E	LECTIVE COURSE	S									
	FIRST SEMESTER												
Esse3 code	N°	Courses	SSD	CFU	в	С	D	Е	F	Duration (hours)	Notes	PROFESSOR	
146042		Distributed robot perception	ING-INF/07	6			6			60	offered by LM 33	Fontanelli Daniele	
146113		Design of precision systems	ING-IND/12	6			6			60	offered by LM 33 - AD 146030 mod. 1	Bosetti Paolo	
145530		Industrial systems modeling	ING-INF/05	6			6			60		DA DEFINIRE	
146167		Managing industrial systems in the context of high product variety	ING-IND/35	6			6			60		Suzic Nikola	
		s	ECOND SEMESTE	R									
Esse3 code	N°	Courses	SSD	CFU	в	С	D	E	F	Duration (hours)	Notes	PROFESSOR	
145572		Circular economy for materials processing	ING-IND/21	6			6			60	offered by LM 53	Pellizzari Massimo	
145782		Laboratory of the Internet of Things	ING-INF/01	6			6			60	offered by LM 33	Brunelli Davide	
145486		Recycling and sustainable materials	ING-IND/22	6			6			60	offered by LM 53	Pegoretti Alessandro	
140431		Modeling and design with finite elements	ING-IND/14	6			6			60	offered by LM 33	Benedetti Matteo	

NOTES:

(1) = All students must have the certifications of:

the general training course "Sicurezza formazione generale", or similar course;
the specific training course - medium risk "Sicurezza in laboratorio- UniTrento", or similar course;
For any further information about safety training, please visit the website: <u>https://infostudenti.unitn.it/en/safety-training-for-students</u>

(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 competence of the Italian Language (Level A1 CEFR – 3 ECTS/CFU –

type F) before starting the exam session of the second year.

(4) = Different elective modules - not included in the Manifesto - have to be approved by the Teaching board of the Department.

Approved on 15/02/2023 by the Department's Board