

ANNEX 1.2

DEGREE PROGRAM DIDACTIC REGULATIONS

MASTER DEGREE IN MANAGEMENT ENGINEERING

CLASS LM-31

School: Polytechnic School

Department: Industrial Engineering

Didactic Regulations in force since the academic year 2025 -26

STUDY PLAN

KEY

Type of Educational Activity (TAF):

B = Characterising

C = Related or Supplementary

D = At the student's choice

E = Final examination and language knowledge

F = Further training activities

Program								
Year I								
Title Course	SSD	Module	CRED ITS	Hours	Course modalities	TAF	Disciplinary area	Mandatory/ optional
Plan and innovation of the organizational system	IEGE-01/A (EX ING-IND/35)	Unic	9	72	In person	B		Mandatory
System and process model analysis	IINF-04/A (EX ING-INF/04)	I – System theory		72		B		
Management Control Systems	IEGE-01/A (EX ING-IND/35)	Unic		72		B		
Information systems	IINF-05 (EX ING-INF/05)	Unic	6	48	In person	C		Mandatory
Production systems for goods and services	IIND-05 (EX ING-IND/17)	Unic	6	48	In person	B		Mandatory
Modellistica ed analisi di sistemi e processi	IINF-04/A (EX ING-INF/04)	II – Models identification and estimation	6	48	In person	B		Mandatory
Mechanical technology II	IIND-04 (EX ING-IND/16)	Unic		60	In person			
Autonomus choice course (see table 5)		Unic	9	72	In person	D		Mandatory

Year II								
Title Course	SSD	Module	CRED ITS	Hours	Course modalities	TAF	Disciplinary area	Mandatory/ optional
Curricular activities (see tables 1 to 4)		Unic	36	288	In person	B e C		Mandatory
Extra knowledge		Unic	3	24	In person	F		Mandatory
Linguistic knowledge		Unic	3	24	In person	F		Mandatory
Stage e Traineeship		Unic	6	150	In person	F		Mandatory
Final test			12			E		Mandatory
Year I								

Table 1 –Innovation Management ^(a)				
Strategy and Entrepreneurship	I	9	IEGE-01/A (EX ING-IND/35)	B
Innovation evaluation system	II	9	IEGE-01/A (EX ING-IND/35)	B
Product Lifecycle Management	I	9	IIND-03/B (EX ING-IND/15)	C
Technologies for Information Systems	II	9	IINF-05 (EX ING-INF/05)	C

Table 2 – Supply Chain Management				
Logistic Systems Modelling	I	9	IEGE-01/A (EX ING-IND/35)	B
Integrated Logistic System	II	9	IIND-05 (EX ING-IND/17)	B
Measurement Data Analysis	I	9	IMIS-01/B (EX ING-INF/07)	C
Freight transport systems	I	9	CEAR-03/B (EX ICAR/05)	C

Table 3 – Green and Sustainable Manufacturing Management				
Management and Control of Processing Systems	II	9	IIND-04 (EX ING-IND/16)	B
Circular resource management	I	9	IEGE-01/A (EX ING-IND/35)	B
Energetics	I	9	IIND-07/A (EX ING-IND/10)	C
Statistical quality control	II	9	STAT-01/B (EX SECS-S/02)	C

Table 4 – Management of Business Data and Information				
Business Analytics	II	9	IEGE-01/A (EX ING-IND/35)	B
System and Process Control	I	9	IINF-04/A (EX ING-INF/04)	B

Technologies and Applications for Digital Transformation	I	9	IINF-05 (EX ING-INF/05)	C
Statistical lab for industrial data analysis	I	9	STAT-01/B (EX SECS-S/02)	C

Table 5 – Complex Project and Process Management				
Process and project management in organizations	II	9	IEGE-01/A (EX ING-IND/35)	B
System and Process Control	I	9	IINF-04/A (EX ING-INF/04)	B
Operational research 2: Tools for decision making	I	9	MATH-01/B (EX MAT/04)	C
Aerospace program management	II	9	IIND-01/E (EX ING-IND/05)	C

Table 6 – Autonomous choice exams			
Exam	Semester	Credits	SSD
Fundamentals of Law for Engineers	II	9	GIUR-01/A (EX IUS/01)
Industrial Production Management	I	9	IIND-05 (EX ING-IND/17)
Smart modelling of industrial production systems	I	9	IIND-05 (EX ING-IND/17)
Automated Production Systems	II	9	IIND-05 (EX ING-IND/17)
Safety and Maintenance of Industrial Plants	II	9	IIND-05 (EX ING-IND/17)
Plants for the Process Industry	I	9	ICHI-02/A (EX ING-IND/25)
Technologies for Non-Conventional Materials	II	9	IIND-04 (EX ING-IND/16)
Special Technologies	II	9	IIND-04 (EX ING-IND/16)
Computer-Aided Manufacturing	I	9	IIND-04 (EX ING-IND/16)
Green manufacturing and sustainability	I	9	IIND-04 (EX ING-IND/16)
Additive manufacturing	II	9	IIND-04 (EX ING-IND/16)
Project Management for Civil Works	II	9	IEGE-01/A (EX ING-IND/35)
Structural Mechanics	II	9	CEAR-03/A (EX ICAR/04)
Intelligent Transportation Systems	II	9	08/CEAR-03/B (EX ICAR/05)
Statistics for Business Decision-Making	I	9	STAT-01/B (EX SECS-S/01)
Applied mechanics for energy efficiency	II	9	IIND-02 (EX ING-IND/13)
Sustainable Chemistry and Industrial Safety	I	9	ICHI-02/A (EX ING-IND/25) CHEM-06 (EX CHIM/07)