UNIVERSITÀ POLITECNICA DELLE MARCHE

Facoltà di Ingegneria

A.A. 2024/2025

Regolamento didattico

LM/FS 2022/2023

Classi: **LM-30 - Ingegneria Energetica**

DM270/2004

Sede: **Pesaro**

CdS: **Green Industrial Engineering**

Sustainable Energy Transition
Sustainable Manufacturing

Anno: 1

Tip. DM	Tip. AF	SSD	Offerta formativa	CFU
b)	Caratterizzante	ING-IND/09	Energy conversion and storage systems	9
b)	Caratterizzante	ING-IND/10	Sustainable Energy	9
b)	Caratterizzante	ING-IND/15	Tools and Methods for Ecodesign	9
b)	Caratterizzante	ING-IND/32	Electrical Machines and Smart Grids	9
c)	Affini	ING-IND/14	Structural design of energy systems	9
c)	Affini	ING-INF/05	Data Science for Eco-sustainability	9
c)	Affini	SECS-P/06	Environmental economics and policy	9

Anno: 1 () - Totale CFU: 63

Anno: 2

Tip. DM	Tip. AF	SSD	Offerta formativa	CFU
f)	Altre	-	Elective Courses taught in English	12
f)	Altre	-	Internship	3
f)	Altre	-	Thesis	12

Anno: 2 () - Totale CFU: 27

Sustainable Energy Transition

b)	Caratterizzante	ING-IND/10	Heat and Mass transfer	9
b)	Caratterizzante	ING-IND/25	Chemical processes and plants for circular bioeconomy	9
c)	Affini	GEO/08	Geothermal Resources	6
c)	Affini	ING-IND/06	Computational Fluid Dynamics for Energy Engineering	6

Anno: 2 (: Sustainable Energy Transition) - Totale CFU: 30 + 27 comuni = 57

Sustainable Manufacturing

b)	Caratterizzante	ING-IND/09	Energy Efficiency in Production Systems	12
c)	Affini	BIO/07	Theoretical and Applied Ecology	6
c)	Affini	ING-IND/16	Advanced Sustainable Production Systems	6
c)	Affini	ING-INF/04	Fault Diagnosis and Predictive Maintenance	6

Anno: 2 (: Sustainable Manufacturing) - Totale CFU: 30 + 27 comuni = 57

Totale CFU 2 anni: 120

Riepilogo Attività Formative

Attività	Min DM	CFU Ordinamento		CFU ENE_T	CFU MANU
b) - Caratterizzanti la Classe	45	48 - 70		54	48
c) - Affini ed integrative	24	24 - 45		39	45
f) - Altre attività formative (D.M. 270 art. 10 §5)		24 - 45		24	24
			Tirocini Formativi	3	3
Totale				120	120

Offerta a scelta libera dello studente (OL) per i corsi a scelta

SSD	Offerta formativa	Anno	CFU
GEO/01	Climate variability and impacts (STATUTARIO per curriculum "Sustainable Energy Transition")	2	6
ICAR/01	Hydraulics for the Energy Harvesting	2	6
ICAR/08	Structures for Green Energy	2	6
ING-IND/12	Industrial Measurement for Sustainable Processes and Products	2	6
ING-IND/13	Robots and intelligent machines for production sustainability	2	6
ING-IND/14	Finite elements Analysis for Green Plants	2	6
ING-IND/17	Industrial Sustainability Management	2	6
ING-IND/21	Advanced Materials for energy applications	2	6
ING-INF/02	Electromagnetic Energy Harvesting	2	6
ING-INF/03	Blockchain and data security management (STATUTARIO per entrambi i curricula)	2	6
MAT/09	Optimization Methods in Green and Smart Manufacturing	2	6
SECS-P/06	Energy and Resource Economy (STATUTARIO per curriculum "Sustainable Manufacturing")	2	6