



## Regolamento didattico

LM/FS  
2026/2027

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 | IIND-06/B | Energy conversion and storage systems | 9   |
| b)      | Caratterizzante | IIND-07/A | Sustainable Energy                    | 9   |
| b)      | Caratterizzante | IIND-08/A | Electrical Machines and Smart Grids   | 9   |
| c)      | Affini          | ECON-04/A | Environmental economics and policy    | 9   |
| c)      | Affini          | IIND-03/A | Structural design of energy systems   | 9   |
| c)      | Affini          | IIND-03/B | Tools and Methods for Ecodesign       | 9   |
| c)      | Affini          | IINF-05/A | Data Science for Eco-sustainability   | 9   |

Anno: 1 () - Totale CFU: 63

### Anno: 2 (attivo dall'A.A. 2027/2028)

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

Anno: 2 () - Totale CFU: 27

#### Sustainable Energy Transition

|    |                 |           |                                                                      |   |
|----|-----------------|-----------|----------------------------------------------------------------------|---|
| b) | Caratterizzante | ICHI-02/A | Chemical processes and plants for circular bioeconomy (non attivato) | 9 |
| b) | Caratterizzante | IIND-07/A | Heat and Mass transfer (non attivato)                                | 9 |
| c) | Affini          | GEOS-01/C | Geothermal Resources (non attivato)                                  | 6 |
| c) | Affini          | IIND-01/F | Computational Fluid Dynamics for Energy Engineering (non attivato)   | 6 |

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

#### Sustainable Manufacturing

|    |                 |           |                                                        |    |
|----|-----------------|-----------|--------------------------------------------------------|----|
| b) | Caratterizzante | IIND-06/B | Energy Efficiency in Production Systems (non attivato) | 12 |
|----|-----------------|-----------|--------------------------------------------------------|----|

|                                                                                |                 |           |                                                              |   |
|--------------------------------------------------------------------------------|-----------------|-----------|--------------------------------------------------------------|---|
| b)                                                                             | Caratterizzante | IIND-08/B | Electrochemical Storage and Electrical Safety (non attivato) | 6 |
| c)                                                                             | Affini          | BIOS-05/A | Applied Ecology (non attivato)                               | 6 |
| c)                                                                             | Affini          | IINF-04/A | Fault Diagnosis and Predictive Maintenance (non attivato)    | 6 |
| <b>Anno: 2 (: Sustainable Manufacturing) - Totale CFU: 30 + 27 comuni = 57</b> |                 |           |                                                              |   |

**Totale CFU 2 anni: 120**

#### Riepilogo Attività Formative

| Attività                                            | Min<br>DM | CFU<br>Ordinamento | CFU<br>MANU | CFU<br>ENE_<br>T |
|-----------------------------------------------------|-----------|--------------------|-------------|------------------|
| b) - Caratterizzanti la Classe                      | 45        | 45 - 70            | 45          | 45               |
| c) - Affini ed integrative                          | 24        | 24 - 48            | 48          | 48               |
| f) - Altre attività formative (D.M. 270 art. 10 §5) |           | 24 - 48            | 24          | 24               |
|                                                     |           | Tirocini Formativi | 3           | 3                |
| <b>Totale</b>                                       |           |                    | 120         | 120              |

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

| SSD       | Offerta formativa                                                                                      | Anno | CFU |
|-----------|--------------------------------------------------------------------------------------------------------|------|-----|
| CEAR-01/A | Hydraulics for the Energy Harvesting (non attivato)                                                    | 2    | 6   |
| CEAR-06/A | Structures for Green Energy (non attivato)                                                             | 2    | 6   |
| ECON-04/A | Energy and Resource Economy (non attivato) (STATUTARIO per il Curr. Sustainable Manufacturing)         | 2    | 6   |
| GEOS-02/A | Climate variability and impacts (non attivato) (STATUTARIO per il Curr. Sustainable Energy Transition) | 2    | 6   |
| IIND-02/A | Robots and intelligent machines for production sustainability (non attivato)                           | 2    | 6   |
| IIND-03/A | Finite elements Analysis for Green Plants (non attivato)                                               | 2    | 6   |
| IIND-03/C | Advanced Materials for energy applications (non attivato)                                              | 2    | 6   |
| IIND-05/A | Industrial Sustainability Management (non attivato)                                                    | 2    | 6   |
| IINF-02/A | Electromagnetic Energy Harvesting (non attivato)                                                       | 2    | 6   |
| IINF-03/A | Blockchain and data security management (non attivato) (STATUTARIO per entrambi i curricula)           | 2    | 6   |
| IMIS-01/A | Industrial Measurement for Sustainable Processes and Products (non attivato)                           | 2    | 6   |
| MATH-06/A | Optimization Methods in Green and Smart Manufacturing (non attivato)                                   | 2    | 6   |