

## Summary

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### ART. 1 - TYPE

The University of Pavia will activate, for academic year 2023/2024, a Masters degree in **Energy and Environmental Management and Economics – MEDEA (Level I and II)** – at the Department of Economics and Management.

The course will be run in collaboration with the Eni Corporate University S.p.A.

**Editions:** IV edition

**Reference field:** Economics

### ART. 2 - COURSE OBJECTIVES, EMPLOYMENT OPPORTUNITES AND COURSE APPEAL

MEDEA Masters courses aim to provide in-depth knowledge on the problems facing companies that operate in the energy and environmental sector.

The Masters course dates back over sixty years and is attended by graduates from Economics and other technical degrees. Graduates of the course enjoy high employment levels, usually at Eni and its subsidiaries, both in Italy and abroad. Over the past ten years, Italian students have found employment within 3-4 months of graduating while non-Italian students are normally employed in their home countries.

The Masters course has widespread appeal, therefore graduates of both courses find employment across the energy sector, from administration, finance and control to strategy and international relations, contracts, trading, analysis and risk management.

For both levels, the careers resulting from the courses may vary in the type of tasks requested, but not in terms of access to the energy sector. This is due to the particular features of the teaching programme.

### ART. 3 - COURSE PROGRAMME

The duration of the Masters course is one year (1500 hours in total – **60 credits**) and is organized into: frontal teaching, practical sessions, project work in collaboration with Eni and its subsidiaries, seminars, study groups and individual preparation.

Students must attend 75% of the course activities.

The study period may not be suspended. Transfers to similar Masters courses offered by other institutions are not permitted.

The teaching will be held both online and in presence, or in mixed mode, consistent with the evolution of the pandemic. In any case, the most timely communication will be given to members.

Level I course modules are organized as follows and will be taught in English:

Course/ Module	SSD	Frontal teaching hours	Individual study hours	Total hours	Credits
<b>INTEGRATED COURSE: 1 ECONOMICS</b>					
1.1 ECONOMICS BASIC COURSE 1.2 BEHAVIORAL ECONOMICS AND GREEN NUDGES 1.3 HISTORY AND ECONOMICS 1.4 INDUSTRY 4.0 AND LOGISTICS	SECS-P/01	88	187	275	11
<b>INTEGRATED COURSE: 2 ECONOMETRICS</b>					
2.1 QUANTITATIVE METHODS FOR MANAGEMENT 2.2 DATA ANALYSIS 2.3 CODING	SECS-P/05 SECS-P/02	88	187	275	11
<b>INTEGRATED COURSE: 3 FINANCE</b>					
3.1 FINANCIAL ACCOUNTING 3.2 CORPORATE FINANCE AND ESG GOALS 3.3 ENERGY CONTRACTS AND TRADING 3.4 PROJECT MANAGEMENT 3.5 STRATEGIC MANAGEMENT	SECS-S/06	88	187	275	11
<b>INTEGRATED COURSE: 4 ENERGY</b>					
4.1 ENERGY ECONOMICS 4.2 NATURAL RESOURCES AND RENEWABLE ENERGY 4.3 GEOPOLITICS OF ENERGY AND THE ENVIRONMENT 4.4 FIELD DEVELOPMENT STRATEGY 4.5 RENEWABLES AND ECONOMICS OF ELECTRICITY	SECS-P/06	88	187	275	11
<b>INTEGRATED COURSE: 5 ENVIRONMENT</b>					
5.1 ENERGY TRANSITION AND CLIMATE CHANGE ECONOMICS 5.2 SAFETY AND ENVIRONMENTAL PROTECTION 5.3 SUSTAINABLE DEVELOPMENT 5.4 CIRCULAR ECONOMY	SECS-P/06	88	187	275	11
Total hours partial		440	935	1375	55
Project work - placement				100	4
End of course examination				25	1
<b>Total hours</b>				<b>1500</b>	<b>60</b>

Level II course modules are organized as follows and will be taught in English:

Course/ Module	SSD	Frontal teaching hours	Individual study hours	Total hours	Credits
<b>INTEGRATED COURSE: 1 ECONOMICS</b>					
1.1 ECONOMICS ADVANCED COURSE 1.2 BEHAVIORAL ECONOMICS AND GREEN NUDGES 1.3 HISTORY AND ECONOMICS	SECS-P/01	88	187	275	11
<b>INTEGRATED COURSE: 2 ECONOMETRICS</b>					
2.1 APPLIED ECONOMETRICS 2.2 SYSTEM DYNAMICS MODELLING FOR THE ENERGY 2.3 CODING	SECS-P/05 SECS-P/02	88	187	275	11
<b>INTEGRATED COURSE: 3 FINANCE</b>					
3.1 FINANCIAL ACCOUNTING 3.2 CORPORATE FINANCE AND ESG GOALS 3.3 ENERGY CONTRACTS AND TRADING 3.4 PLANNING AND CONTROL 3.5 PROJECT MANAGEMENT 3.6 STRATEGIC MANAGEMENT	SECS-S/06	88	187	275	11
<b>INTEGRATED COURSE: 4 ENERGY</b>					
4.1 ENERGY ECONOMICS 4.2 NATURAL RESOURCES AND RENEWABLE ENERGY 4.3 GEOPOLITICS OF ENERGY AND THE ENVIRONMENT 4.4 FIELD DEVELOPMENT STRATEGY 4.5 RENEWABLES AND ECONOMICS OF ELECTRICITY	SECS-P/06	88	187	275	11
<b>INTEGRATED COURSE: 5 ENVIRONMENT</b>					
5.1 ENERGY TRANSITION AND CLIMATE CHANGE ECONOMICS 5.2 SUSTAINABLE DEVELOPMENT 5.3 CIRCULAR ECONOMY 5.4 ENVIRONMENTAL ASSESSMENT	SECS-P/06	88	187	275	11
<b>Totale hours partial</b>		440	935	1375	55
<b>Project work - placement</b>				100	4
<b>End of course examination</b>				25	1
<b>Total hours</b>				<b>1500</b>	<b>60</b>

#### ART. 4 - EVALUATION TEST

Students' knowledge is evaluated through tests.

Marks are expressed as a percentage with a pass mark of 60/100.

Some seminar-based courses do not feature tests but a purely qualifying examination.

#### ART. 5 - END OF COURSE EXAMINATION AND AWARD OF THE QUALIFICATION

Once the course has concluded, students who have completed all of the activities and satisfied the set requirements will be awarded a Level I or Level II Masters degree in **"Energy and Environmental Management and Economics"**.

The end of course examination consists in the preparation of a report on the project work (1 CFU), without any oral presentation.

#### ART. 6 - TEACHING STAFF

The Masters courses and modules will be held by teaching staff from the University of Pavia, experts from Eni and its subsidiaries and other highly-qualified experts.

#### ART. 7 - ENTRY REQUIREMENTS

##### LEVEL I COURSE

##### a. ACADEMIC TITLES

The level I course is aimed at candidates preferably with foreign citizenship who have achieved:

***a three-year degree (Bachelor's degree) pursuant to D.M. 270/2004 in ECONOMICS, ENGINEERING, MATHEMATICS, PHYSICS, CHEMISTRY, STATISTICS, GEOLOGY, LAW, POLITICAL SCIENCE AND INTERNATIONAL RELATIONS or equivalent qualification awarded abroad***

##### b. OTHER REQUIREMENTS

Further entrance requirements for level I course candidates are:

- date of birth equal to or after 1/1/1992
- excellent command of English (to be assessed during selection process)
- work experience in the energy sector is also preferential

##### LEVEL II COURSE

##### a. ACADEMIC TITLES

The Level II course is aimed at candidates preferably with Italian citizenship who have achieved one of the following:

***a Masters degree, pursuant to Ministerial Decree 270/2004, in one of the following classes or an equivalent qualification awarded abroad:***

▪ Architettura e ingegneria edile-architettura LM4	▪ Finanza LM16
▪ Ingegneria aerospaziale e astronautica LM20	▪ Ingegneria biomedica LM21
▪ Ingegneria chimica LM22	▪ Ingegneria civile LM23
▪ Ingegneria dei sistemi edilizi LM24	▪ Ingegneria dell'automazione LM25
▪ Ingegneria della sicurezza LM26	▪ Ingegneria delle telecomunicazioni LM27
▪ Ingegneria elettrica LM28	▪ Ingegneria elettronica LM29
▪ Ingegneria energetica e nucleare LM30	▪ Ingegneria gestionale LM31
▪ Ingegneria informatica LM32	▪ Ingegneria meccanica LM33

▪ Ingegneria navale LM34	▪ Ingegneria per l'ambiente e il territorio LM35
▪ Scienza e ingegneria dei materiali LM53	▪ Scienze dell'economia LM56
▪ Scienze economiche per l'ambiente e la cultura LM76	▪ Scienze economico-aziendali LM77
▪ Scienze statistiche, attuariali e finanziarie LM83	

#### b. OTHER REQUIREMENTS:

Further entry requirements for **level II course candidates** are:

- possession of a Masters degree with a final mark not below 105/110 (95/100) in the classes cited in section 2 or an equivalent qualification awarded abroad;
- date of birth equal or after 1/1/1996;
- excellent command of English (to be assessed during selection process)

**Italian students awarded requested qualifications by 31 July 2023 are also admitted. Such candidates should include on their curriculum vitae the average mark of any examinations taken.**

The maximum number of students enrolled per course: **50**.

The minimum number of students required to activate the course: **7** (MEDEA Level II); **7** (MEDEA Level I)

The Academic Board reserves the right to consider whether to extend the number of course places offered.

#### c. SELECTION PROCESS

There is a two-stage selection process for each level of the course

##### PHASE 1: PRE-SELECTION BY UNIVERSITY OF PAVIA

The Servizio Post Laurea, once the deadline for admission has expired, will evaluate the eligibility of each candidate, taking into consideration the above-mentioned entry requirements as stated in the applications submitted on-line on the UNIPV portal. It will send a list of those candidates deemed eligible to the Masters Co-ordinator and to the Eni Corporate University for the next phase.

##### PHASE 2: SELECTION BY THE CO-ORDINATOR AND ENI

Once it has received the list of students from the first phase of pre-selection, the Masters commission, composed of a Co-ordinator and Eni personnel, will allocate places on the Masters courses to candidates.

The Commission will identify and make a final decision on the candidates admitted to the second phase of selection. These candidates may be required to undergo technical/aptitudinal interviews in order to verify that they satisfy Eni's recruitment criteria.

When the selection process has concluded, a ranking list for each level (I and II) and divided by qualifying type will be drawn up. Should two or more candidates have the same score, preference will be given to the younger candidate.

Should one or more candidates withdraw, the place/s vacated will be made available to candidates who appear on the relative ranking list until all places have been filled.

Regarding ranking list positions, preference will be given to candidates from one of the countries benefiting from a scholarship (in particular, Italian citizenship for the Level II course and non-Italian citizenship for the Level I course).

The Commission composed of the Coordinator and Eni personnel will make a specific selection for each Master level, through the evaluation of the curriculum vitae submitted by candidates during online application. Subsequently candidates whose profile will be deemed pertaining to the professional figure they intend to train by the Commission may be required to undergo psycho-aptitude tests and

technical/motivational interviews aimed at assessing eligibility according to the criteria of Eni Recruiting. At the end of the selection will be formulated, for each course (I and II level), a ranking of merit (for the level II master specific also for the type of entry academic title). Should two or more candidates have the same score, the youngest candidate prevails. Should one or more candidates withdraw, the place/s vacated will be made available to candidates who appear on the relative ranking list until all places have been filled. Regarding ranking list positions, preference will be given to candidates from one of the countries benefiting from a scholarship (in particular, Italian citizenship for the Level II course and non-Italian citizenship for the Level I course).

#### **d. SCHOLARSHIPS**

Scholarship candidates are admitted to the Master courses and exempted from the payment of the €25,000 course fee. Further, in order to favor the diffusion of the culture of energy in countries of specific interest for the energy sector:

In addition, in order to promote the spread of energy culture in specific countries of interest to the energy sector, a number of scholarships may be awarded to deserving students who hold the citizenship of one of the following countries: Algeria, Cyprus, Congo, Ivory Coast, Egypt, Indonesia, Italy, Kazakhstan, Kenya, Libya, Mexico, Mozambique, and Turkmenistan.

When awarding scholarships, the Examining Board will evaluate the university curriculum, other qualifications and professional experience gained. Academic background or professional experience in the energy sector will be adequately evaluated.

The scholarship includes, in addition to fee waiver, free educational materials, a monthly contribution to housing expenses and the use of company canteens. In awarding scholarships, the examining board will evaluate the academic record, other qualifications and professional experience. Academic or professional experience in the energy sector will be appropriately valued. Individuals chosen independently by foreign Eni Companies may also participate in the courses.

The amount of the scholarship is €1,000 gross/month for Italian students; €1,300 gross/month for foreign students.

The scholarship also includes free educational materials, facility visits and the use of company canteens.

#### **ART. 8 - DEADLINE FOR ON-LINE COURSE APPLICATION**

Candidates must complete the admission procedure described in the Call for Applications from **27 January 2023** and by:

- **2 May 2023** for the Level I Masters course
- **9 May 2023** for the Level II Masters course

The requirements requested in the Call for Applications and Attachment must be held by the enrolment deadline date with the exception of that described in Article 7 regarding access to the Level II course (*Italian candidates who are awarded a qualification by 31 July 2023 will also be admitted*).

Once a completed application has been made on the Unipv portal, candidates must complete an application on the Eni.com website (either of the following links):

<https://www.eni.com/it-IT/cariere/master-medea.html> - Italian version

<https://www.eni.com/en-IT/careers/medea-masters.html> - English version

#### **ART. 9 - ATTACHMENT TO THE ON-LINE MASTERS APPLICATION**

Candidates must attach their **curriculum vitae** during the online application process, including an indication that they hold the requested entry and selection requirements.

All parts of the CV are recommended to be carefully and clearly drafted.

Candidates holding a qualification awarded abroad must attach, during the online application process, the documents indicated in Article 3 of the Call for Applications. To complete their enrolment, the



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requested documentation must be presented, in its original form, together with a declaration of legal validity from the Italian diplomatic representative situated in the state where the certificate was issued, **by 30/09/2023**, to the Ufficio Master - Servizio Post Laurea – via Ferrata 5, 27100 Pavia.

#### **ART. 10 - WEBSITE AND ADMINISTRATION OFFICE**

All correspondence to candidates will be made via the following website:

<https://economiaemanagement.dip.unipv.it/it/node/159>

**For more information related to the organisation of the course:**

#### **ADMINISTRATION OFFICE**

Servizio Post Laurea

Via Ferrata, 5 -27100 Pavia

Dr. Marco Loreto T 0382 985955 E [master.ateneo@unipv.it](mailto:master.ateneo@unipv.it)