



1863 POLITECNICO DI MILANO



POLITECNICO
MILANO 1863

PoliMI Ambassador in Green Technologies & Smart Infrastructures

POLIMI AMBASSADOR IN GREEN TECHNOLOGIES E SMART INFRASTRUCTURES

Within the context of the interuniversity framework project “Tecnologie per le Transizioni”, Politecnico di Milano wants to activate **high-level training courses** aimed at creating new professional figures, the Polimi Ambassador in *Green Technologies* and *Smart Infrastructures*, which:

- have skills in specific areas consistently with the training project (green/smart)
- acquire digital enabling technologies in line with the profile
- master interdisciplinary tools, methods, and aptitude for a systemic vision
- develop talent to operate in interdisciplinary and multisectoral contexts, acquired through exposure, even in teams, to case studies and challenges

www.polimi.it/en/polimi-ambassador

THE PROJECT 2021-2022

Starting with the 2021-2022 academic year, the training courses *PoliMI Ambassador in Green Technologies* and *PoliMI Ambassador in Smart Infrastructures* will be active as part of some Degree Programmes (DP)

Green Technologies

INGEGNERIA EDILE – ARCHITETTURA
BUILDING AND ARCHITECTURAL ENGINEERING
ENVIRONMENTAL AND LAND PLANNING
ENGINEERING
CHEMICAL ENGINEERING
ENERGY ENGINEERING
MANAGEMENT ENGINEERING
MATERIALS ENGINEERING AND
NANOTECHNOLOGY
NUCLEAR ENGINEERING

Smart Infrastructures

MANAGEMENT OF BUILT ENVIRONMENT
CIVIL ENGINEERING
AUTOMATION AND CONTROL
ENGINEERING
BIOMEDICAL ENGINEERING
COMPUTER SCIENCE AND ENGINEERING
ELECTRICAL ENGINEERING
MECHANICAL ENGINEERING
TELECOMMUNICATION ENGINEERING

The *PoliMI Ambassador in Green Technologies* and *PoliMI Ambassador in Smart Infrastructures* certification will be reported in the Student's Diploma Supplement and an electronic badge will be issued by Politecnico di Milano.

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Green Technologies

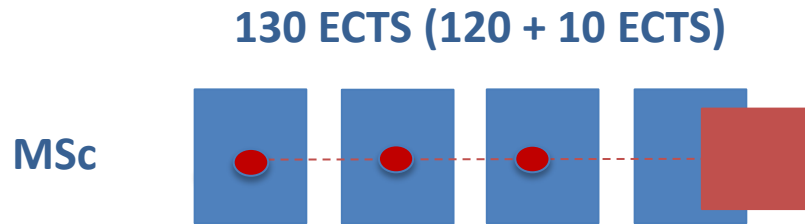
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IMPLEMENTATION (MASTER OF SCIENCE)



30 ECTS green or smart =

≈10 ECTS *green* or *smart*

Vertical Courses

(topics characterizing the DP of context)

+

≈ 20 ECTS *green* or *smart*

Transversal Courses

(topics different from the ones characterizing the DP of context)

ECTS SELECTION – MANAGEMENT ENGINEERING

30 ECTS green =

10 ECTS *green*

Vertical Courses – ***Table A of the call***
(topics characterizing the DP of context)

+

20 ECTS *green*

Transversal Courses – ***Table B of the call***
(topics different from the ones
characterizing the DP of context)

“The student must acquire at least 30 CFU in training activities functional to the profile in Green Technologies. These CFUs must be acquired by choosing from 8 to 13 CFUs from Table A and from 18 to 24 CFUs from Table B”.

For the Ambassador programme, the selection of 15 ECTS from Table A + 18 ECTS from Table B will not be valid

ECTS SELECTION – MANAGEMENT ENGINEERING

Table A

| Course | ECTS | Language | Sem. | Campus | Code |
|--|------|----------|------|--------|-------|
| AGRI-FOOD SUPPLY CHAIN PERSPECTIVES | 5 | ENG | 1 | BV | 55771 |
| CIRCULAR ECONOMY BUSINESS MODELS | 5 | ENG | 1 | BV | 57018 |
| CIRCULAR INDUSTRIAL SYSTEMS | 5 | ENG | 1 | BV | 57017 |
| COLLABORATIVE INNOVATION FOR SUSTAINABILITY AND IMPACT | 5 | ENG | 1 | BV | 57026 |
| ESG PRINCIPLES IN THE ENERGY INDUSTRY | 5 | ENG | 1 | BV | 57330 |
| GREEN LOGISTICS | 5 | ENG | 1 | BV | 57013 |
| INTERNATIONAL MARKETS AND EUROPEAN INSTITUTIONS | 5 | ENG | 1 | BV | 97374 |
| MANAGEMENT FOR SUSTAINABILITY AND SOCIAL IMPACT | 5 | ENG | 1 | BV | 57021 |
| MANAGEMENT OF ENERGY | 5 | ENG | 1 | BV | 57019 |
| SUSTAINABLE MANUFACTURING | 5 | ENG | 1 | BV | 54954 |
| DEVELOPMENT ECONOMICS | 8 | ENG | 2 | BV | 97386 |
| ENERGY AND CLIMATE CHANGE MODELING AND SCENARIOS | 8 | ENG | 2 | BV | 55635 |
| ENERGY ECONOMICS | 8 | ENG | 2 | BV | 55634 |
| GLOBAL ENVIRONMENTAL CHALLENGES | 5 | ENG | 2 | BV | 57020 |
| PRODUCT LIFE CYCLE MANAGEMENT | 5 | ENG | 2 | BV | 97327 |

ECTS SELECTION – MANAGEMENT ENGINEERING

Table B

| Course | ECTS | Language | Sem. | Campus | Code |
|--|------|----------|------|--------|-------|
| DE-MANUFACTURING | 5 | ENG | 1 | BV | 97314 |
| ENGINEERING AND COOPERATION FOR DEVELOPMENT | 8 | ENG | 1 | BV | 55642 |
| FUNDAMENTALS OF ENERGY TECHNOLOGIES | 5 | ENG | 1 | BV | 51113 |
| HYBRID AND ELECTRIC VEHICLE | 6 | ENG | 1 | BV | 54362 |
| INTRODUCTION TO NUCLEAR ENGINEERING A | 5 | ENG | 1 | BV | 52593 |
| METHODS AND TOOLS FOR SYSTEMATIC INNOVATION | 5 | ENG | 1 | BV | 54832 |
| ELECTRIC SYSTEM FOR TRANSPORTATION C | 6 | ENG | 1 | BV | 97671 |
| CLIMATE AND GLOBAL CHANGES IN THE AGE OF SUSTAINABLE DEVELOPMENT | 8 | ENG | 1 | LEO | 54196 |
| ELECTRICITY MARKETS | 8 | ENG | 1 | LEO | 52589 |
| INTRODUCTION TO GREEN AND SUSTAINABLE CHEMISTRY | 5 | ENG | 1 | LEO | 96125 |
| WATER AND FOOD SECURITY | 8 | ENG | 1 | LEO | 95854 |
| DIGITAL TWIN FOR ENERGY SYSTEMS MANAGEMENT | 8 | ENG | 2 | BV | 57006 |
| DIRITTO DELL'ENERGIA | 5 | ENG | 2 | BV | 51509 |
| EMERGING TECHNOLOGIES AND SOCIETAL CHALLENGES | 5 | ENG | 2 | BV | 55807 |
| POWER PRODUCTION FROM RENEWABLE ENERGY | 8 | ENG | 2 | BV | 97394 |
| ECOLOGIA E SOSTENIBILITÀ DEI SISTEMI PRODUTTIVI | 8 | ITA | 2 | LEO | 85722 |
| POLLUTION MEASUREMENT [1ST MOD] | 5 | ENG | 2 | LEO | 51745 |
| POLLUTION MANAGEMENT [2ND MOD] | 5 | ENG | 2 | LEO | 51744 |
| SUSTAINABLE DEVELOPMENT | 5 | ENG | 2 | LEO | 52583 |

ECTS SELECTION – MANAGEMENT ENGINEERING

Table B

| Course | ECTS | Language | Sem. | Campus | Code |
|---|------|----------|------|--------|--------|
| AUTOMATION AND CONTROL IN ELECTRIC AND HYBRID VEHICLES | 5 | ENG | 2 | LEO | 056810 |
| METHODOLOGIES FOR LIFE CYCLE THINKING | 10 | ENG | 2 | LEO | 056818 |
| DATA ANALYSIS FOR SMART AGRICULTURE | 5 | ENG | 1 | LEO | 057498 |
| DATA MODELLING FOR URBAN PERFORMANCE | 5 | ENG | 2 | LEO | 057530 |
| INTEGRATION OF NUCLEAR AND RENEWABLE ENERGY FOR CARBON NEUTRAL SCENARIOS | 5 | ENG | 2 | LEO | 057533 |
| NATURE-BASED SOLUTIONS FOR A RESILIENT WORLD | 5 | ENG | 2 | LEO | 057524 |
| PLASTIC TODAY: KEY CHALLENGES AND OPPORTUNITIES | 5 | ENG | 1 | LEO | 057520 |
| SOCIAL MEDIA AND VOLUNTEERED GEOGRAPHICAL INFORMATION FOR SUSTAINABLE DEVELOPMENT GOALS | 5 | ENG | 2 | LEO | 057495 |

GENERAL INDICATIONS

Students will have to:

- **Present application** to the call through a specific application function available on the online services (section Admission requests> Admission to selection procedures). **DEADLINE: 16/09/2021, h 12.00** (Italian time)
The list of students enrolled in the program, for each Degree Program, will be published by 17/09/2021 on the web page www.polimi.it/en/polimi-ambassador
- **Fill in the Form** for your Degree Program to indicate a choice of at least 30 CFUs from only the courses in Tables A and B, as reported in the Ambassador call. **DEADLINE: 24/09/2021**
- **Fill in the Study Plan** as per the ordinary procedure (in force for all students and in line with what reported in the Educational Rules of your Degree Program), adding all the courses indicated in the Form (previous point) that are already available in the system. The other courses indicated in the Form, but not available in the system will be inserted by the responsible of the Study Plan of your Degree Program (names reported on the website of the Degree Program and/or of the School).
- **Pay next year's first installment** by September 16th

NB. The excess 10 ECTS will not be paid, if the total ECTS in the study plan will stay below 74 ECTS/year

CALLS & TIMING

I semester

| | | | |
|------------|-----------------|-----------------|--------------------|
| Study Plan | opening 31/8 | closure 24/9 | enrollment 15/9 |
| Call1 | 19/7 | 16/9 | |
| Form1 | 31/8 | 24/9 | |

MANAGEMENT ENGINEERING

https://forms.office.com/Pages/ResponsePage.aspx?id=K3EXCvNtXUKAjjCd8ope67c9Up_I B6NIuP8ydFboXMFUMTg3REIRMzIOMk0zVUZETkJBQjRHR0hZW4u

II semester

| | | | |
|------------|-----------------|----------------|--------------------|
| Study Plan | opening 24/1 | closure 1/3 | enrollment 23/2 |
| Call2 | 17/12 | 24/2 | |
| Form2 | 25/2 | 1/3 | |





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