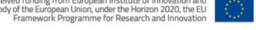






This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



EIT-Manufacturing

@ Politecnico di Milano

Double Degree Programme

EIT







The European Institute of Innovation and Technology (EIT) is a unique EU initiative that drives innovation across Europe by integrating business, education and research to find solutions to pressing global challenges.

EIT supports the development of dynamic, long-term European partnerships among leading **companies**, **research labs** and **higher education**.

This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation







EIT Digital

EIT Urban Mobility

EIT Manufacturing

EIT Climate

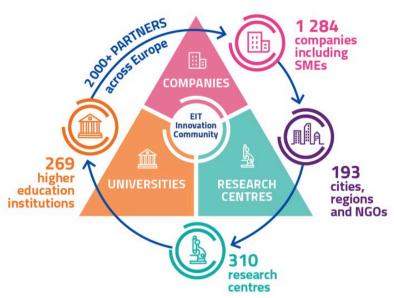
EIT Food

EIT Raw Materials

EIT InnoEnergy

EIT Health

Europe's largest innovation community





manufacturing industry

the competitiveness of Europe's integrated transport

EIT label double degree







This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation

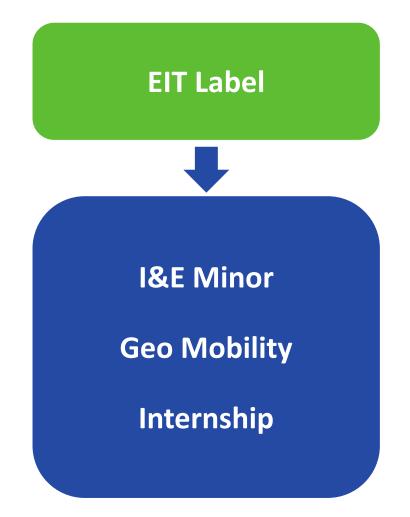


The EIT Manufacturing Master's (EIT-M) is designed to attract and empower top talents preparing them to become leading innovators and entrepreneurs in manufacturing

The education programmes will provide innovative, customised and industry-driven knowledge and the ultimate skills.

The EIT Manufacturing Master training Program offers mobility, mentorship, networking, innovation & entrepreneurship including relevant trainings on how to develop a business model, business case, testimonials and tours, Industrial involvement and Internships, etc.

As a EIT Manufacturing Master Graduates you will be able to generate start-ups or innovation within manufacturing companies and ecosystem, contributing to European competitiveness, environmental sustainability and to the creation of new jobs.



The EIT Manufacturing Master School

Five different programmes are on offer through the EIT-M Master

School at a consortium of European universities.







This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation











University of Applied Sciences and Arts of Southern Switzerland











People and Robots for Sustainable Work

combining manufacturing science, robotic system physics and control system automation, including the design of customized manufacturing processes and production management.

Additive Manufacture for Full Flexibility

combining manufacturing science, physics of additive manufacturing processes, mechanical design to exploit the design freedoms for more customized products and services, and production management

Zero-Defect Manufacture for a Circular Economy

Combining manufacturing science physics of equipment and processes, data analytics, and process management including the flexibility enabled for smaller lot production.

Platforms for digitalized value networks

Combining manufacturing science including the usage and adoption of advanced digital solutions and platforms.

Data Analysis and AI for Competitive Manufacturing

Giving a common background at the Entry universities, while the Exit universities are more specialized on the Digital Manufacturing Technologies related topics.

The EIT Manufacturing Master School

Five different programmes are on offer through the EIT-M Master







This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation











University of Applied Sciences and Arts of Southern Switzerland











- People and Robots for Sustainable Work Not @ POLIMI
 combining manufacturing science, robotic system physics and control system automation,
 including the design of customized manufacturing processes and production management.
- Additive Manufacture for Full Flexibility
 combining manufacturing science, physics of additive manufacturing processes, mechanical
 design to exploit the design freedoms for more customized products and services, and
 production management
- Zero-Defect Manufacture for a Circular Economy @ POLIMI next opening in 2022
 Combining manufacturing science physics of equipment and processes, data analytics, and process management including the flexibility enabled for smaller lot production.
- Platforms for digitalized value networks
 Combining manufacturing science including the usage and adoption of advanced digital solutions and platforms.
- Data Analysis and AI for Competitive Manufacturing Not @ POLIMI
 Giving a common background at the Entry universities, while the Exit universities are more specialized on the Digital Manufacturing Technologies related topics.

The EIT Manufacturing Master School







This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



Students move from their entry university at the end of the first year to their exit university in a different country for the second year. The language of instruction throughout is English.

EIT-M programme graduates are awarded two Master degrees - one from each university. An EIT Label certificate is also conferred to participants who have followed one of the 4 programmes (with international mobility), taken part in the Innovation & Entrepreneurship courses (in particular the summer school) and successfully completed an internship in industry.

The EIT-M, which is set to welcome its first intake of students in September 2022, will be one of the main assets of the EIT Manufacturing innovation communities, spreading innovation and creating new business in the manufacturing ecosystem.

MASTER SCHOOL JOURNEY MAP



EIT-M Master Programme

Type of modules	Total ect for EIT-M Master	Total ects 1 st year	Total ects 2 nd year	
Technical courses (TC)	45			
Specialization courses (SC)	15	40-50	10-20	
Innovation & entrepreneurship courses (I&E) including Summer school (5ects)	30	10-20	10-20	
Master thesis (MT)	30	0	30	
Tot	120	60	60	







This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



MASTER SCHOOL JOURNEY MAP



Additive Manufacture for Full Flexibility



University of Applied Sciences and Arts





This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



@ POLIMI MSC Mechanical Engineering







Additive Manufacturing for Full Flexibility (AM) is a combination of studying manufacturing science including physics of additive manufacturing processes, mechanical design including exploiting the design freedoms enabled for more customized products and services, and production management including the flexibility enabled for smaller lot production.

Typical application areas of AM include rapid prototyping, flexible pattern and mold manufacturing, lightweight systems, and flexible manufacturing systems. During the programme students will gain new skills in these areas.



Additive Manufacture for Full Flexibility







This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation

A student who graduates from the Additive Manufacturing for Full Flexibility (AM) shall be able to:

- critically, independently and creatively participate in strategic work to meet manufacturing-related problems and to be able to relate these measures to sustainable social development,
- implement the gained engineering expertise in AM to create new or improved methods, techniques, products, and services in the field;
- think beyond traditional disciplinary boundaries to find innovative solutions to real-world problems and to come up with new ideas;
- draw up plans and to make decisions foreseeing future consequences from a scientific, ethical, and societal
 perspective;
- turn innovations in the area into feasible and successful business solutions.
- profitably work in teams and contexts by taking into account all relevant elements and showing effective decision-making and leadership abilities.





This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation

1st year @ POLIMI **Draft plan**

Type of modules	POLIMI courses	ECTS	Sem.	Total credits
	ADVANCED MANUFACTURING PROCESSES	10	1	
	APPLIED METALLURGY	6	1	
TC	CONTROL AND ACTUATING DEVICES FOR MECHANICAL SYSTEMS	9	1	36
	MEASUREMENTS	5	2	
	MACHINE DESIGN	6	2	
SC	ADDITIVE MANUFACTURING	8	1	8
I&E	DESIGN & MANAGEMENT OF PRODUCTION SYSTEMS or LEADERSHIP & INNOVATION	10	2	16
	MANAGING TECHNOLOGY DISRUPTION	6	2	

10.5	CENTRALLY OR CANUTER CUIDANAER COLLOCA	-	_	_
I&E	CENTRALLY ORGANIZED SUMMER SCHOOL	5	2	5

Platforms for digitalized value networks







This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



@ POLIMI MSC Management Engineering





University of Applied Sciences and Arts of Southern Switzerland

SUPSI

The programme is a combination of studying manufacturing science including the usage and adoption of advanced digital solutions and platforms.

During the programme, students will gain new skills in these areas.

In Platforms for digitalized value Networks, relevant fields include modelling and simulation, virtual prototyping, system engineering, industrial processes and operations.

Students learn the latest theoretical knowledge and know how to apply their skills in practical real-life problems. Typical application areas of Platforms for digitalized values networks: Cyber-physical systems (CPS), Information system management, digital monitoring.







This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation

A student who graduates from the Platform for digitalized value network programme shall be able to:

- have broad knowledge of theories and concepts in Cyber-physical systems (CPS), Information system
 management, digital monitoring
- critically, independently and creatively participate in strategic work to meet manufacturing-related problems and to be able to relate these measures to sustainable social development,
- implement the gained engineering expertise in AM to create new or improved methods, techniques, products, and services in the field;
- think beyond traditional disciplinary boundaries to find innovative solutions to real-world problems and to come up with new ideas;
- draw up plans and to make decisions foreseeing future consequences from a scientific, ethical, and societal
 perspective;
- turn innovations in the area into feasible and successful business solutions
- profitably work in teams and contexts by taking into account all relevant elements and showing effective decision-making and leadership abilities.

Platforms for digitalized value networks Politecnico MILANO 1863







This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



1st year @ POLIMI **Draft plan**

Type of modules	POLIMI courses	ECTS	Sem.	Total credits
	INDUSTRIAL TECHNOLOGIES	10	1	
TC	LOGISTICS MANAGEMENT	10	2	30
	OPERATIONS MANAGEMENT	10	2	
SC	ACCOUNTING, FINANCE & CONTROL	10	1	10
I&E	LEADERSHIP & INNOVATION	10	2	20
	STRATEGY & MARKETING	10	1	20

I&E	CENTRALLY ORGANIZED SUMMER SCHOOL	5	2	5

Apply to EIT-M Master School







This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



APPLICATION PORTAL https://apply.eitmanufacturing.eu

Remember to apply by the POLIMI Portal for MSC course, also.

A student can choose to apply to a maximum of two (2) programmes, ranking them in the preferred order. Within each programme the student can choose up to three study tracks, meaning combinations of entry and exit universities, wherever available. The student has to upload the following documents, in pdf and portrait format, before the applications deadline. Specific information about the document requirements and format are available at the applications portal.

- DEGREE OR STATEMENT OF FINAL YEAR ENROLLMENT
- **ENGLISH CERTIFICATE**
- **CURRICULUM**
- **MOTIVATION LETTER MAX 2 pages**
- PASSPORT / ID COPY



Application Deadline

1st March 2022

Scholarship awarding







This activity has received funding from European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation

SCHOLARSHIPS MAY INCLUDE:

MOBILITY GRANT | SUBSISTENCE COSTS SUPPORT | FEE WAIVERS

During the selection the student application will be evaluated according to the ranking of the programmes and respective three study track choices.

Once the selections are closed, the student will receive a written communication about his/her admission to the specific programme and study track.

Scholarships are awarded to a sub-set of students based on a ranking that considers:

- Academic grades
- o Gender
- RIS countries citizenship
- Study track