

Double Degree

Management of Built Environment - Management Engineering

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4.3 Detailed description of the study programme for the Intake Management Engineering (PSPA)

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1. Professional profile

The Internal Double Master of Science degree in Management of Built Environment - Management Engineering aims to answer to the new expectations and challenges that are emerging in the construction industry, at the national and international level, influenced by many heterogeneous technical, social, cultural and economic factors, like the decrease of new buildings and the increase of investments in the already existing stock; the structural – qualitative and quantitative – changes in the demand; the adjustment of the technical components to new rules and norms in different fields (from energy and material savings, to acoustic isolation, people with disabilities, etc.); the increase in the quality standard required to buildings; the increasing awareness of industrial and service firms of the importance of the quality of real estate, and of its role in the creation of economic value; the increasing interest of financial markets for the real estate market. In order to deal with the challenges of the current economic context, this sector is calling for new professional profiles, able to integrate technical and management competences.

The objective of the Internal Double Master of Science degree in Management of Built Environment - Management Engineering is to train professionals able to strengthen the competence of management engineers in connection to the specific sector, and provide Built Environment experts with in depth managerial competences. In this way, students will become more aware of issues related to building design, asset management, the interaction between managerial and technical issues at all the stages of the construction lifecycle. In this connection, particular attention will be given to the problems of market globalization, innovation management and logistic.

2. Enrolment

2.1 Entry requirements

The Internal Double Master of Science degree in Management of Built Environment - Management Engineering is open to 20 students selected from the Master of Science in Management of Built Environment and the Master of Science in Management Engineering (10 students from each programme).

Applications for the Internal Double Master of Science degree may be submitted, in compliance with the rules set out in this Teaching Regulation <http://www.polimi.it/it/corsi/corsi-di-studio/elenco-dei-corsi/> , by students of the Politecnico di Milano enrolled in:

- Master of Science (equivalent to Laurea Magistrale) Programme in Management of Built Environment; or
- Master of Science (equivalent to Laurea Magistrale) Programme in Management Engineering. Hence, **students enrolled in “individual” courses (equivalent to Corsi Singoli) cannot apply to the Double Master of Science degree in Management of Built Environment - Management Engineering.** To apply for the Double Master of Science degree, students should fulfil the admission requirements outlined in the Teaching regulations of each study course
<http://www.polimi.it/en/programmes/course-catalogue/degree-programmes/>:
- Master of Science (equivalent to Laurea Magistrale) Programme in Management of Built Environment (available at:);
https://www4.ceda.polimi.it/manifesti/manifesti/controller/extra/RegolamentoPublic.do?jaf_currentWFID=main&EVN_DEFAULT=evento&aa=2016&k_corso_la=1096&lang=EN



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Master of Science (equivalent to Laurea Magistrale) Programme in Management Engineering
(available at)

https://www4.ceda.polimi.it/manifesti/manifesti/controller/extra/RegolamentoPublic.do?jaf_currentWFID=main&EVN_DEFAULT=evento&aa=2016&k_corso_la=479&lang=EN

2.2 Articulation of the selection process and general criteria used for students' selection

Students from Politecnico di Milano interested in applying for the Internal Double Master of Science degree in Management Engineering – Management of Built Environment, must submit (by their own institutional e-mail) the documents within the timeframe that will be published on the Course website (at <http://www.auic.polimi.it/en/> and <http://www.ingindinf.polimi.it/en/>), to the following addresses:

- Management of Built Environment students: info-lm-auic@polimi.it
- Management Engineering students: management-engineering@polimi.it

Applications should include the following documents:

- A motivation letter where the candidate describes the reasons for the application in the Internal Double Master of Science degree and the contribution that they will offer to the community of the project;
- Academic CV of the Bachelor degree obtained from other universities, with self-declaration of transcripts with marks and the final degree grade;
- Personal CV outlining skills and extra-bachelor experiences (extra-curricular courses, work experiences, workshops and summer schools, etc.) and that highlights experience and skills acquired that are consistent with the second degree;
- An extended abstract of the final thesis (this is not required for students that graduated with the Business Game in the Laurea in Ingegneria Gestionale at Politecnico di Milano). This manuscript must not exceed 5 standard Word pages.

An evaluation Committee composed by professors appointed by the Study Course of Management of Built Environment and the Study Course of Management Engineering, will be in charge of the candidates' selection process.

The evaluation committee will make a first screening of the applicants based on the academic background, the motivation letter and the CV of the candidate and will assign up to 60 points as follows:

- Motivation letter, up to 10 points assigned;
- Academic CV of the Bachelor Degree obtained from other universities, with self-declaration of transcripts with marks and the final degree grade, up to 40 points assigned;
- Personal CV and Thesis or Business Game experience, up to 10 points assigned.

Candidates who are assigned **at least 50 points** will be interviewed individually.

The evaluation committee will do a second evaluation based on an individual interview that will assess:



- The extent to which the Double Degree is consistent with the candidate's expectations and motivations;
- The extent to which the objectives of the Double Degree are consistent with the specific skills acquired by the candidate during the Bachelor's Degree and through other curriculum experiences;
- The extent to which the candidate is motivated to acquire knowledge in the areas covered by the Double Degree in particular with respect to the second degree (evaluated via questions during the individual interview).

The one-to-one interview will be assigned **a maximum of 40 points**.

2.3 Main deadlines and time-frame

The deadlines of the selection process will be published on the Course websites (at www.dig.polimi.it/internaldd and <http://www.ingindinf.polimi.it/en/didactics/internal-double-degree-projects/> and at <http://www.ccsmbc.polimi.it>, and at <http://www.auic.polimi.it/en/educational-offer/double-degrees/internal-double-degrees/>)

This year, the call for applications will follow this timeline:

- Presentation of candidate applications: by January 13rd 2017 at 12.00 (noon)
- Selection process and interviews: between January 13rd 2017 and February 15th 2017
- Publication of the final results and formal acceptance by candidates: by February 20th 2017

3. Tuition fees

Details will be published on the University websites: <http://www.polimi.it/en/students/from-enrolment-to-degree/fees/> and

http://www.polimi.it/uploads/media/Tuition_Fees_and_Exemptions_Guide_Magistrale-MSc_2016-17.pdf

4. Study Plan

4.1 General framework of the double degree

The double degree is based on two Master of Science programmes of Politecnico di Milano: the Master of Science degree in Management of Built Environment and the Master of Science degree in Management Engineering.

Students can start the double degree from either programme, according to their specific inclination and background: i.e. an intake from Management of Built Environment or from Management Engineering. This enables students to first deepen one of the two topics, then move to the other, and, finally, integrate them.

Therefore, the programme is organised as shown in the diagram below:



Intake Management of Built Environment

Intake Management Engineering

3rd Year

Thesis and Internship
(17 credits)

Thesis and Internship
(18 credits)

Management Engineering
(35 credits)

MBE
(33 credits)

2nd Year

Management Engineering
(10 credits)

MBE
(24 credits)

MBE
(51 credits)

Management Engineering
(45 credits)

1st Year

Management Engineering
(10 credits)

MBE
(57 credits)

Management Engineering
(60 credits)



4.2 Detailed description of the study programme for the Intake Management of Built Environment (PSPA)

Students with a first degree in Architecture, Planning, Civil, Building and Management Engineering have access with no debits to the course.

The first year is then organised as follows:

Code	SSD	Course title	Type	Sem	ECTS	ECTS group
096307	ING-IND/35	BUSINESS ECONOMICS	M	1	9	9
097610	ING-IND/17	PRODUCTION MANAGEMENT	M	1	9	9
096315	ICAR/12	EVALUATION AND MANAGEMENT OF REAL ESTATE	M	1	9	9
096312	ICAR/21	METHODS AND TOOLS FOR ANALYSIS OF URBAN AND TERRITORIAL SYSTEMS	M	2	6	6
096314	SECS-P/06	REGIONAL ECONOMICS + LAND RENT THEORY	M	2	12	12
096334	ICAR/10 ICAR/19	VALORISATION OF HISTORICAL BUILDINGS + VALORISATION OF CULTURAL HERITAGE	I	2	12	12

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Code	SSD	Course title	Type	Sem	ECTS	ECTS group
096076	ING-IND/35	LEADERSHIP & INNOVATION	M	2	10	10
096088	ING-IND/17	OPERATIONS MANAGEMENT	M	1/2	10	
096090	ING-IND/17	INDUSTRIAL TECHNOLOGIES*	M	1/2	10	

The second year is organised as follows:

Code	SSD	Course title	Type	Sem	ECTS	ECTS group
096317	ICAR/11	BUILDING MAINTENANCE PROCEEDINGS AND METHODS	M	1	9	9
096328	ICAR/12 ING-IND/35	FINANCIAL MANAGEMENT OF REAL ESTATE TRANSACTIONS + PROJECT MANAGEMENT	I	1	12	12
096429	ICAR/12	INFORMATION SYSTEMS FOR THE MAINTENANCE AND MANAGEMENT	M	1	9	9
096320	IUS/10	ADMINISTRATIVE AND PUBLIC PROCUREMENT LAW	M	2	6	6
096321	SECS-P/06	ECONOMIC ASSESSMENT OF URBAN TRASFORMATIONS	M	2	9	9
096326	ING-IND/17	CONSTRUCTION SUPPLY CHAIN MANAGEMENT	M	2	6	6

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Code	SSD	Course title	Type	Sem	ECTS	ECTS group
096078	ING-IND/35	ACCOUNTING, FINANCE & CONTROL (1)	M	1	10	10
096080	ING-IND/35	STRATEGY & MARKETING	M	1	10	
096088	ING-IND/17	OPERATIONS MANAGEMENT*	M	1/2	10	
096090	ING-IND/17	INDUSTRIAL TECHNOLOGIES*	M	1/2	10	
096076	ING-IND/35	LEADERSHIP & INNOVATION	M	2	10	

(1) This subject is mandatory. However, it can be included in the study plan either in the second year or in the third year.



The Third year is organised as follows:

Code	SSD	Course title	Type	Sem	ECTS	ECTS group
		MASTER THESIS CLASS – MBE_EC		1/2	12	12
		INTERSHIP – MBE		1/2	5	5

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Code	SSD	Course title	Type	Sem	ECTS	ECTS group
096078	ING-IND/35	ACCOUNTING, FINANCE & CONTROL (1)	M	1	10	10
096080	ING-IND/35	STRATEGY & MARKETING	M	1	10	
096088	ING-IND/17	OPERATIONS MANAGEMENT*	M	1/2	10	
096090	ING-IND/17	INDUSTRIAL TECHNOLOGIES*	M	1/2	10	
096076	ING-IND/35	LEADERSHIP & INNOVATION	M	2	10	

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Code	SSD	Course title	Type	Sem	ECTS	ECTS group
097403	ING-IND/17	INDUSTRIAL MANAGEMENT LAB AND TOOLBOX		1/2	15	15
097319	ING-IND/17	ASSET LIFE CYCLE MANAGEMENT		1	10	10
097320	ING-IND/17	INDUSTRIAL PROJECT MANAGEMENT A		1	10	

(1) This subject is mandatory. However, it can be included in the study plan either in the second year or in the third year.

4.3 Detailed description of the study programme for the Intake Management Engineering (PSPA)

First year courses

Code	SSD	Course title	Type	Sem	ECTS	ECTS group
096078	ING-IND/35	ACCOUNTING FINANCE & CONTROL	M	1	10	10
096080	ING-IND/35	STRATEGY & MARKETING	M	1	10	10
096076	ING-IND/35	LEADERSHIP & INNOVATION	M	2	10	10
096090	ING-IND/17	INDUSTRIAL TECHNOLOGIES	M	1/2	10	30
096086	ING-IND/16	QUALITY ENGINEERING	M	2	10	
096089	ING-IND/17	LOGISTICS MANAGEMENT	M	1/2	10	
096088	ING-IND/17	OPERATIONS MANAGEMENT	M	1/2	10	

Second year courses

Code	SSD	Course title	Type	Sem	ECTS	ECTS group
097403	ING-IND/17	INDUSTRIAL MANAGEMENT LAB AND TOOLBOX	I	1/2	15	15
097319	ING-IND/17	ASSET LIFE CYCLE MANAGEMENT	M	1	10	10
097320	ING-IND/17	INDUSTRIAL PROJECT MANAGEMENT A	M	1	10	
097321	ING-IND/17	OPERATIONS RISK MANAGEMENT AND RESILIENCE	M	1	5	5
097323	ING-IND/17	QUALITY MANAGEMENT	M	1	5	
097313	ING-IND/16	ADDITIVE MANUFACTURING	M	1	5	5
097314	ING-IND/16	DE-MANUFACTURING	M	1	5	
097325	ING-IND/17 ING-IND/35	DIGITAL BUSINESS INNOVATION	M	2	5	
097316	ING-IND/17	INTERNATIONAL DISTRIBUTION	M	2	5	
097327	ING-IND/17	PRODUCT LIFE CYCLE MANAGEMENT	M	2	5	
097315	ING-IND/17	SAFETY ENGINEERING AND MANAGEMENT	M	1	5	5
097330	ING-IND/17 ING-IND/35	SUPPLY CHAIN AND PURCHASING MANAGEMENT	M	1	5	
		STUDENT'S FREE CHOICE OF COURSES - GROUP GESLM		1/2		10

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Code	SSD	Course title	Type	Sem	ECTS	ECTS Group
096308	ICAR/10	BUILDING TYPES AND CONSTRUCTION METHODS	M	1	9	9
096310	ICAR/11	BUILDING AND CONSTRUCTION TECHNOLOGIES	M	1	9	9
096320	IUS/10	ADMINISTRATIVE AND PUBLIC PROCUREMENT LAW	M	2	6	6

Third year courses

Code	SSD	Course title	Type	Sem	ECTS	ECTS Group
		MASTER THESIS CLASS – ME_IM		1/2	13	13
		INTERNSHIP – ME		1/2	5	5

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Code	SSD	Course title	Type	Sem	ECTS	ECTS Group
096313	ICAR/11	DURABILITY AND MAINTENANCE	M	2	12	12
096314	SECS-P/06	REGIONAL ECONOMICS + LAND RENT THEORY	M	2	12	12
096317	ICAR/11	BUILDING MAINTENANCE PROCEEDINGS AND METHODS	M	1	9	9

5. Further Information

Withdrawal from the Double Degree programme must follow the procedures and timeframes established by the School's schedules.

Students applying to the Double Degree may apply for ASP (Alta Scuola Politecnica), the Erasmus + and non-EU international mobility programmes. **However, if students are selected for both programmes, they must withdraw from one of them as per the relevant procedures and timeframes.**

Any delay in communicating withdrawal from the Double degree programme will seriously affect replacement candidates and cause administrative difficulties.

Students who undertake the Double degree programme and decide to finish their studies after completing only one of the degrees must present a new study plan detailing a change in curriculum/PSPA (previously approved study plan), within the established deadline.

6. Contacts

- Management of Built Environment students: info-lm-auic@polimi.it
- Management Engineering students: management-engineering@polimi.it

The Dean of the School of Industrial and Information Engineering

F.to Prof. Giovanni Lozza

The Dean of the School of Architecture Urban Planning and Construction Engineering

F.to Prof. Ilaria Valente