



**POLITECNICO**  
MILANO 1863

SCUOLA DI  
ARCHITETTURA  
URBANISTICA  
INGEGNERIA DELLE  
COSTRUZIONI

SCUOLA DI  
INGEGNERIA  
INDUSTRIALE E  
DELL'INFORMAZIONE

## Internal Double Degree

### Management of Built Environment (LM-24) and Urban Planning and policy Design (LM-48)

#### 1. Aim of the programme

The Internal Double Master's Degree in **Management of Built Environment - Urban Planning and policy Design** aims at facing the new challenges emerging in the construction industry at national and international level, because of various technical social, cultural, and economic factors when integrating or modifying the built asset in existing urban area according to urban planning. This requires new professional profiles, capable of integrating technical and managerial skills.

Therefore, the aim of the Double Master's Degree in Management of Built Environment - Urban Planning and policy Design is to train professionals who can strengthen the skills of a urban planner for what concerns this particular sector, while also providing experts of the built environment in-depth urban planning and policy design skills. Thus, students can become more aware of the difficulties of building design, infrastructure and urban design interaction between management issues and techniques at all stages of the construction cycle. In this sense, particular attention will be paid to the problems of energy and urban planning, economic assessment of urban transformation, and the management of innovation and real estate functions.

#### 2. Study plan

##### 2.1 General structure of the double degree programme

The Double Degree programme is based on two Master's Degree Programs of Politecnico di Milano: the Master Degree in Management of Built Environment and the Master Degree in **Urban Planning and policy Design**.

Students can enter the double degree from either program, depending on their propensity and background; in other words, students can be admitted from either the Management of Built Environment or the **Urban Planning and policy Design** intake. This allows students to first deepen one of the two fields, then focus on the other one, to lastly integrate the two.



## 2.2 Detailed description of the study plan for students enrolling from the Management of Built Environment intake (PSPA: MT3 TECHNICAL CURRICULUM)

Students with the First Degree in Architecture, Planning, Civil Engineering, Built and Management Engineering access the program with no debt.

096311	Technical assessment of the built environment	MBE	CM	A	9	9	1	1	ICAR/12	
	<b>One among</b>									
054436	Building types and real estate functions	MBE	CM	A	9	9	1	1	ICAR/12	
096307	Business economics	MBE	CM	A	9		1	1	ING-IND/35	
	<b>One among</b>									
053105	Building and construction technologies	MBE	CM	A	9	9	1	1	ICAR/11	
097610	Production management	MBE	CM	A	9		1	1	ING-IND/17	
053119	Durability and maintenance	MBE	CM	A	12	12	1	2	ICAR/11	
096312	Methods and tools for analysis of urban and territorial systems	MBE	CM	A	6	6	1	2	ICAR/21	
053109	Regional economics + land rent theory	MBE	CM	A	12	12	1	2	SECS-P/06	
055729	Building maintenance proceedings and methods	MBE	CM	A	6	6	2	1	ICAR/11	
054754	Facility management lab	MBE	CM	A	6	6	2	1	ICAR/12	
051336	Construction management	MBE								
051337	Construction management A: principles	MBE	CL	A	6	12	2	1	ICAR/11	
051338	Construction management B: applications	MBE	CL	A	6		2	1	ICAR/11	
051335	Administrative and public procurement law	MBE	CM	A	6	6	2	2	IUS/10	
053117	Economic assessment of urban trasformations	MBE	CM	A	9	9	2	2	SECS-P/06	
054437	Social housing estate and management	MBE	CM	A	9	9	2	2	ICAR/12	
096322	Internship	MBE	T	A	3	3	2			
055734	Synthesis class - Technical Curriculum	MBE	PF	A	12	12	2			
059379	Planning theory and practice	UPPD	CM	A	6	6	1	1	ICAR/20	
054530	Conflicts management and resolution	UPPD	CM	A	6	6	2	1	ICAR/20	
	<b>One among</b>									
054497	Urban planning and design studio	UPPD								
054502	Urban design	UPPD	IL	A	6	12	1	1	ICAR/21	
054503	Urban planning	UPPD	IL	A	6		1	1	ICAR/21	
054504	Spatial planning and infrastructure design studio	UPPD								
054505	Spatial planning and design	UPPD	IL	A	6		1	1	ICAR/21	
054506	Infrastructure design	UPPD	IL	A	6		1	1	ICAR/21	
054512	Contemporary city: descriptions and projects	UPPD								
054513	Infrastructure and urban planning	UPPD	ICI	A	4	10	1	2	ICAR/04	
054514	Urban planning and design	UPPD	ICI	A	6		1	2	ICAR/21	
057932	Sociology of the City	UPPD								
096856	Social change	UPPD	ICI	A	4	8	1	1	SPS/09	



096857	Social policies	UPPD	ICI	A	4		1	1	SPS/09
	<b>Tematic workshop (one among):</b>								
057171	<b>Housing and neighbourhoods</b>	UPPD							
057172	Social policies	UPPD	ICI	A	6	12	2	1	SPS/09
057173	Urban policies	UPPD	ICI	A	6		2	1	ICAR/20
055695	<b>Energy, Climate and Urban Planning</b>	UPPD							
096355	Sustainable urban design	UPPD	IL	A	8		2	1	ICAR/20
055696	Urban survey and representation	UPPD	IL	A	4		2	1	ICAR/17
081911	<b>Internship</b>	UPPD	T	A	4	1	2	1/2	
099732	<b>IC Economics of public issues</b>	UPPD							
099733	Poverty, inequality and the welfare state	UPPD	ICI	A	4	8	2	2	SECS-P/03
099734	Economic analysis of public policies	UPPD	ICI	A	4		2	2	SECS-P/03



### 2.3 Detailed description of the study plan for students enrolling from Urban Planning and Policy Design (PSPA)

057932	<b>Sociology of the City</b>	UPPD							
096856	Social change	UPPD	ICI	A	4	8	1	1	SPS/09
096857	Social policies	UPPD	ICI	A	4		1	1	SPS/09
057929	<b>IC Urbanism</b>	UPPD							
057930	Introduction to visual thinking	UPPD	ICI	A	4	10	1	1	ICAR/14
054496	Urbanism: issues and tools	UPPD	ICI	A	6		1	1	ICAR/21
059379	<b>Planning theory and practice</b>	UPPD	CM	A	6	6	1	1	ICAR/20
	<b>Planning studio (one among):</b>								
054497	<b>Urban planning and design studio</b>	UPPD							
054502	Urban design	UPPD	IL	A	6	12	1	1	ICAR/21
054503	Urban planning	UPPD	IL	A	6		1	1	ICAR/21
054504	<b>Spatial planning and infrastructure design studio</b>	UPPD							
054505	Spatial planning and design	UPPD	IL	A	6		1	1	ICAR/21
054506	Infrastructure design	UPPD	IL	A	6		1	1	ICAR/21
054511	<b>Policy analysis</b>	UPPD	CM	A	4	4	1	2	SPS/04
054512	<b>Contemporary city: descriptions and projects</b>	UPPD							
054513	Infrastructure and urban planning	UPPD	ICI	A	4	10	1	2	ICAR/04
054514	Urban planning and design	UPPD	ICI	A	6		1	2	ICAR/21
054515	<b>Strategic planning and urban policies</b>	UPPD	CM	A	6	6	1	2	ICAR/20
	<b>Planning studio (one among):</b>								
054516	<b>Urban policies and design studio</b>	UPPD							
054518	Urban policies	UPPD	IL	A	6	12	1	2	ICAR/20
054519	Urban Design	UPPD	IL	A	6		1	2	ICAR/21
054520	<b>Master plans studio</b>	UPPD							
054521	Urban design	UPPD	IL	A	6		1	2	ICAR/21
054522	Urban design process management	UPPD	IL	A	6		1	2	ICAR/20
099717	<b>Regional economics</b>	UPPD	CM	A	4	4	2	1	SECS-P/06
	<b>Tematic workshop (one among):</b>								
057171	<b>Housing and neighbourhoods</b>	UPPD							
057172	Social policies	UPPD	ICI	A	6	12	2	1	SPS/09
057173	Urban policies	UPPD	ICI	A	6		2	1	ICAR/20
055695	<b>Energy, Climate and Urban Planning</b>	UPPD							
096355	Sustainable urban design	UPPD	IL	A	8		2	1	ICAR/20
055696	Urban survey and representation	UPPD	IL	A	4		2	1	ICAR/17
081911	<b>Internship</b>	UPPD	T	A	4	4	2	1/2	
098631	<b>Final Thesis</b>	UPPD	F	A	1 2	12	2	1/2	



054530	<b>Conflicts management and resolution</b>	UPPD	CM	A	6	6	2	1	ICAR/20
054529	<b>Transport planning and economics</b>	UPPD	CM	A	4	4	2	1	SECS-P/06
054685	<b>Land use ethics and the law</b>	UPPD	CM	A	6	10	2	2	ICAR/20
099732	<b>IC Economics of public issues</b>	UPPD							
099733	Poverty, inequality and the welfare state	UPPD	ICI	A	4		2	2	SECS-P/03
099734	Economic analysis of public policies	UPPD	ICI	A	4		2	2	SECS-P/03
057174	<b>EU policies for Sustainability and the City</b>	UPPD	CM	A	6		2	2	ICAR/20
057934	<b>Global Urban Challenges Concepts and Contexts</b>	UPPD	CM	A	4		2	2	M-GGR/02
096311	<b>Technical assessment of the built environment</b>	MBE	CM	A	9	9	1	1	ICAR/12
	<i>One among</i>								
054436	<b>Building types and real estate functions (c)</b>	MBE	CM	A	9	9	1	1	ICAR/12
096307	<b>Business economics (d)</b>	MBE	CM	A	9		1	1	ING-IND/35
	<i>One among</i>								
053105	<b>Building and construction technologies (a)</b>	MBE	CM	A	9	9	1	1	ICAR/11
097610	<b>Production management (b)</b>	MBE	CM	A	9		1	1	ING-IND/17
053119	<b>Durability and maintenance</b>	MBE	CM	A	1 2	12	1	2	ICAR/11
051336	<b>Construction management</b>	MBE							
051337	Construction management A: principles	MBE	CL	A	6	12	2	1	ICAR/11
051338	Construction management B: applications	MBE	CL	A	6		2	1	ICAR/11
053117	<b>Economic assessment of urban trasformations</b>	MBE	CM	A	9	9	2	2	SECS-P/06
<p>(a) Mandatory education for students who have completed the Bachelor in Economic-Management and Civil-Environmental.</p> <p>(b) Mandatory education for students who have completed the Bachelor in Building Engineering or Architecture.</p> <p>(c) Mandatory education for students who have completed the Bachelor in Economic-Management and Civil-Environmental.</p> <p>(d) Mandatory education for students who have completed the Bachelor in Building Engineering or Architecture.</p>									

### 3. Final thesis

The final thesis has to be drafted by each candidate. Because of the peculiar nature of the Double Degree programme, double authors thesis is not allowed.

The final thesis can be assigned a final mark of -1/5 points (thesis without external reviewer/controrelatore) or -1/7 points (thesis with external reviewer/controrelatore).