



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.

In order to meet the challenges of the present economic environment, this industry requires new professional profiles, capable of integrating technical and managerial skills. 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 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	<b>Technical assessment of the built environment</b>	MBE	CM	A	9	9	1	1	ICAR/12
	<b>One among</b>								
054436	<b>Building types and real estate functions</b>	MBE	CM	A	9	9	1	1	ICAR/12
096307	<b>Business economics</b>	MBE	CM	A	9		1	1	ING-IND/35
	<b>One among</b>								
053105	<b>Building and construction technologies</b>	MBE	CM	A	9	9	1	1	ICAR/11
097610	<b>Production management</b>	MBE	CM	A	9		1	1	ING-IND/17
053119	<b>Durability and maintenance</b>	MBE	CM	A	12	12	1	2	ICAR/11
096312	<b>Methods and tools for analysis of urban and territorial systems</b>	MBE	CM	A	6	6	1	2	ICAR/21
053109	<b>Regional economics + land rent theory</b>	MBE	CM	A	12	12	1	2	SECS-P/06
055729	<b>Building maintenance proceedings and methods</b>	MBE	CM	A	6	6	2	1	ICAR/11
054754	<b>Facility management lab</b>	MBE	CM	A	6	6	2	1	ICAR/12
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
051335	<b>Administrative and public procurement law</b>	MBE	CM	A	6	6	2	2	IUS/10
053117	<b>Economic assessment of urban trasformations</b>	MBE	CM	A	9	9	2	2	SECS-P/06
054437	<b>Social housing estate and management</b>	MBE	CM	A	9	9	2	2	ICAR/12
096322	<b>Internship</b>	MBE	T	A	3	3	2		
055734	<b>Synthesis class - Technical Curriculum</b>	MBE	PF	A	12	12	2		
054495	<b>IC Urbanism</b>	UPPD							
054500	Urban design	UPPD	ICI	A	4	10	1	1	ICAR/14
054496	Urbanism: issues and tools	UPPD	ICI	A	6		1	1	ICAR/21
054498	<b>Planning theory and practice</b>	UPPD							
054499	Urban planning	UPPD	ICI	A	6	12	1	1	ICAR/20
054501	Town planning	UPPD	ICI	A	6		1	1	ICAR/20
	<b>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
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
096855	<b>Contemporary city: social change and policies</b>	UPPD							
096856	Social change	UPPD	ICI	A	4	8	2	1	SPS/09
096857	Social policies	UPPD	ICI	A	4		2	1	SPS/09
	<b>Tematic workshop (one among):</b>								
057171	<b>Housing and neighbourhoods</b>	UPPD							
057172	Social policies	UPPD	ICI	A	6		2	1	SPS/09
057173	Urban policies	UPPD	ICI	A	6		2	1	ICAR/20
055695	<b>Energy, Climate and Urban Planning</b>	UPPD				12			
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)

054495	<b>IC Urbanism</b>	UPPD							
054500	Urban design	UPPD	ICI	A	4	10	1	1	ICAR/14
054496	Urbanism: issues and tools	UPPD	ICI	A	6		1	1	ICAR/21
054498	<b>Planning theory and practice</b>	UPPD							
054499	Urban planning	UPPD	ICI	A	6	12	1	1	ICAR/20
054501	Town planning	UPPD	ICI	A	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
096855	<b>Contemporary city: social change and policies</b>	UPPD							
096856	Social change	UPPD	ICI	A	4	8	2	1	SPS/09
096857	Social policies	UPPD	ICI	A	4		2	1	SPS/09
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	Internship	UPPD	T	A	4	4	2	1/2	
098631	Final Thesis	UPPD	F	A	12	12	2	1/2	
054529	Transport planning and economics	UPPD	CM	A	4	14	2	1	SECS-P/06
054530	Conflicts management and resolution	UPPD	CM	A	6		2	1	ICAR/20
054685	Land use ethics and the law	UPPD	CM	A	6		2	2	ICAR/20
099732	IC Economics of public issues	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	EU policies for Sustainability and the City	UPPD	CM	A	6		2	2	ICAR/20
096311	Technical assessment of the built environment	MBE	CM	A	9	9	1	1	ICAR/12
	<i>One among</i>								
054436	Building types and real estate functions (c)	MBE	CM	A	9	9	1	1	ICAR/12
096307	Business economics (d)	MBE	CM	A	9		1	1	ING-IND/35
	<i>One among</i>								
053105	Building and construction technologies (a)	MBE	CM	A	9	9	1	1	ICAR/11
097610	Production management (b)	MBE	CM	A	9		1	1	ING-IND/17
053119	Durability and maintenance	MBE	CM	A	12	12	1	2	ICAR/11
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
053117	Economic assessment of urban transformations	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).