



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 building process. 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.

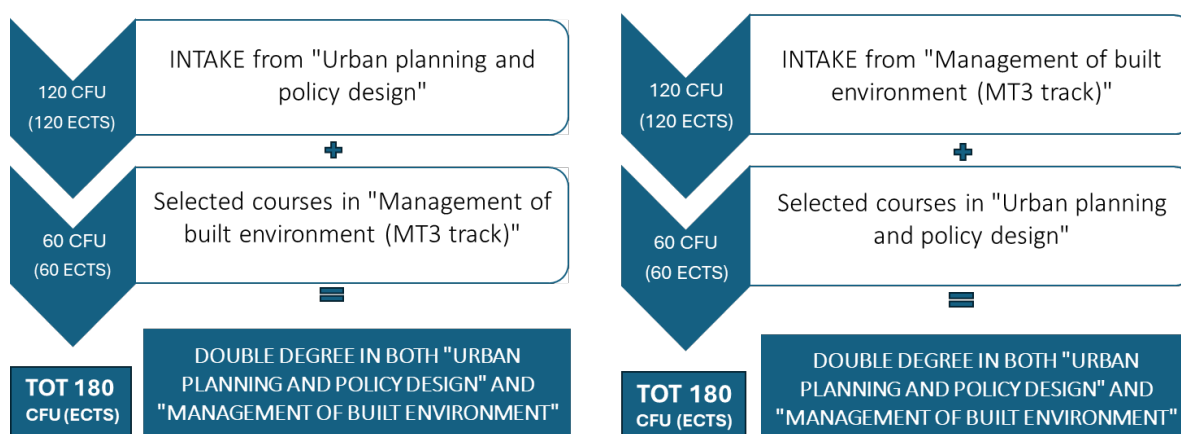


Figure 1 – General structure of the MBE-UPPD double degree programme



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 bachelor's degree in Architecture, Urban Planning, Civil Engineering, Building Engineering and Management Engineering access the program with no debt.

Code	Course Title	Programme	Type	CFU	CFU Group	Year	Sem	SSD
53105	Building and construction technologies (a)	MBE	M	9	9	1	1	ICAR/11
58499	Progettazione e innovazione tecnologica (c)	MBE	M	9		1	1	ICAR/11
97610	Production management (b)	MBE	M	9		1	1	ING-IND/17
62461	Building types and real estate functions (a)	MBE			9			
62462	Building types	MBE	M	6		1	1	ICAR/12
62463	Real estate functions	MBE	M	3		1	1	ICAR/12
96307	Business economics (b)	MBE	M	9		1	1	ING-IND/35
55364	Economia e organizzazione aziendale (d)	MBE	M	9		1	2	ING-IND/35
96311	Technical assessment of the built environment	MBE	M	9	9	1	1	ICAR/12
53119	Durability and maintenance	MBE	M	12	12	1	2	ICAR/11
96312	Methods and tools for analysis of urban and territorial systems	MBE	M	6	6	1	2	ICAR/21
53109	Regional economics + land rent theory	MBE	M	12	12	1	2	SECS-P/06
55729	Building maintenance proceedings and methods	MBE	M	6	6	2	1	ICAR/11
54754	Facility management lab	MBE	M	6	6	2	1	ICAR/12
51336	Construction management	MBE			12			
51337	Construction management A: principles	MBE	L	6		2	1	ICAR/11
51338	Construction management B: applications	MBE	L	6		2	1	ICAR/11
51335	Administrative and public procurement law	MBE	M	6	6	2	2	IUS/10
53117	Economic assessment of urban transformations	MBE	M	9	9	2	2	SECS-P/06
54437	Social housing estate and management	MBE	M	9	9	2	2	ICAR/12
96322	Internship	MBE	T	3	3	2		
55734	Synthesis class - Technical Curriculum	MBE	V	12	12	2		
59379	Planning theory and practice	UPPD	M	6	6	1	1	ICAR/20
54530	Conflicts management and resolution	UPPD	M	6	6	2	1	ICAR/20
54497	Urban planning and design studio	UPPD			12			
54502	Urban design	UPPD	L	6		1	1	ICAR/21
54503	Urban planning	UPPD	L	6		1	1	ICAR/21
54504	Spatial planning and infrastructure design studio	UPPD						
54505	Spatial planning and design	UPPD	L	6		1	1	ICAR/21
54506	Infrastructure design	UPPD	L	6		1	1	ICAR/21
54512	Contemporary city: descriptions and projects	UPPD			10			
54513	Infrastructure and urban planning	UPPD	M	4		1	2	ICAR/04
54514	Urban planning and design	UPPD	M	6		1	2	ICAR/21
57932	Sociology of the City	UPPD			8			
96856	Social change	UPPD	I	4		1	1	SPS/09
96857	Social policies	UPPD	I	4		1	1	SPS/09



57171	Housing and neighbourhoods	UPPD						
57172	Social policies	UPPD	I	6		2	1	SPS/09
57173	Urban policies	UPPD	I	6		2	1	ICAR/20
55695	Energy, Climate and Urban Planning	UPPD			12			
96355	Sustainable urban design	UPPD	L	8		2	1	ICAR/20
55696	Urban survey and representation	UPPD	L	4		2	1	ICAR/17
99732	IC Economics of public issues	UPPD						
99733	Poverty, inequality and the welfare state	UPPD	I	4		2	2	SECS-P/03
99734	Economic analysis of public policies	UPPD	I	4	8	2	2	SECS-P/03
81911	Internship	UPPD	T	4	1	2		
<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) As an alternative to the course “Building and construction technologies”.</p> <p>(d) As an alternative to the course “Business economics”.</p>								

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

Code	Course Title	Programme	Type	CFU	CFU Group	Year	Sem	SSD
57932	Sociology of the City	UPPD						
96856	Social change	UPPD	I	4	8	1	1	SPS/09
96857	Social policies	UPPD	I	4		1	1	SPS/09
57929	IC Urbanism	UPPD						
57930	Introduction to visual thinking	UPPD	I	4	10	1	1	ICAR/14
54496	Urbanism: issues and tools	UPPD	I	6		1	1	ICAR/21
59379	Planning theory and practice	UPPD	M	6	6	1	1	ICAR/20
54497	Urban planning and design studio	UPPD						
54502	Urban design	UPPD	L	6		1	1	ICAR/21
54503	Urban planning	UPPD	L	6		1	1	ICAR/21
54504	Spatial planning and infrastructure design studio	UPPD			12			
54505	Spatial planning and design	UPPD	L	6		1	1	ICAR/21
54506	Infrastructure design	UPPD	L	6		1	1	ICAR/21
54511	Policy analysis	UPPD	M	4	4	1	2	SPS/04
54512	Contemporary city: descriptions and projects	UPPD						
54513	Infrastructure and urban planning	UPPD	I	4	10	1	2	ICAR/04
54514	Urban planning and design	UPPD	I	6		1	2	ICAR/21
54515	Strategic planning and urban policies	UPPD	M	6	6	1	2	ICAR/20
54516	Urban policies and design studio	UPPD						
54518	Urban policies	UPPD	L	6		1	2	ICAR/20
54519	Urban Design	UPPD	L	6	12	1	2	ICAR/21
54520	Master plans studio	UPPD						
54521	Urban design	UPPD	L	6		1	2	ICAR/21



54522	Urban design process management	UPPD	L	6		1	2	ICAR/20
99717	Regional economics	UPPD	M	4	4	2	1	SECS-P/06
57171	Housing and neighbourhoods	UPPD						
57172	Social policies	UPPD	M	6	12	2	1	SPS/09
57173	Urban policies	UPPD	M	6		2	1	ICAR/20
55695	Energy, Climate and Urban Planning	UPPD						
96355	Sustainable urban design	UPPD	L	8		2	1	ICAR/20
55696	Urban survey and representation	UPPD	L	4		2	1	ICAR/17
81911	Internship	UPPD	T	4		4	2	
98631	Final Thesis	UPPD	F	12	12	2		
62441	Planning theory. New challenges	UPPD	M	6	6	1	2	ICAR/20
54529	Transport planning and economics	UPPD	M	4	4	2	1	SECS-P/06
54530	Conflicts management and resolution	UPPD	M	6	Min 10	2	1	ICAR/20
99732	IC Economics of public issues	UPPD						
99733	Poverty, inequality and the welfare state	UPPD	I	4		2	2	SECS-P/03
99734	Economic analysis of public policies	UPPD	I	4		2	2	SECS-P/03
57174	EU policies for Sustainability and the City	UPPD	M	6		2	2	ICAR/20
57934	Global Urban Challenges Concepts and Contexts	UPPD	M	4		2	2	M-GGR/02
84361	Progettazione Urbanistica di Strutture Commerciali	UPPD	M	4		2	1	ICAR/21
53105	Building and construction technologies (a)	MBE	M	9	9	1	1	ICAR/11
97610	Production management (b)	MBE	M	9		1	1	ING-IND/17
62461	Building types and real estate functions (a)	MBE			9			
62462	Building types	MBE	M	6		1	1	ICAR/12
62463	Real estate functions	MBE	M	3		1	1	ICAR/12
96307	Business economics (b)	MBE	M	9		1	1	ING-IND/35
96311	Technical assessment of the built environment	MBE	M	9	9	1	1	ICAR/12
53119	Durability and maintenance	MBE	M	12	12	1	2	ICAR/11
51336	Construction management	MBE						
51337	Construction management A: principles	MBE	L	6	12	2	1	ICAR/11
51338	Construction management B: applications	MBE	L	6		2	1	ICAR/11
53117	Economic assessment of urban transformations	MBE	M	9	9	2	2	SECS-P/06
(a) Mandatory education for students who have completed the Bachelor in Economic-Management and Civil-Environmental.								
(b) Mandatory education for students who have completed the Bachelor in Building Engineering or Architecture.								

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.



POLITECNICO
MILANO 1863

The final thesis can be assigned a final mark of -1/5 points (thesis without external reviewer/controrelatore) or -1/8 points (thesis with external reviewer/controrelatore).