

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.

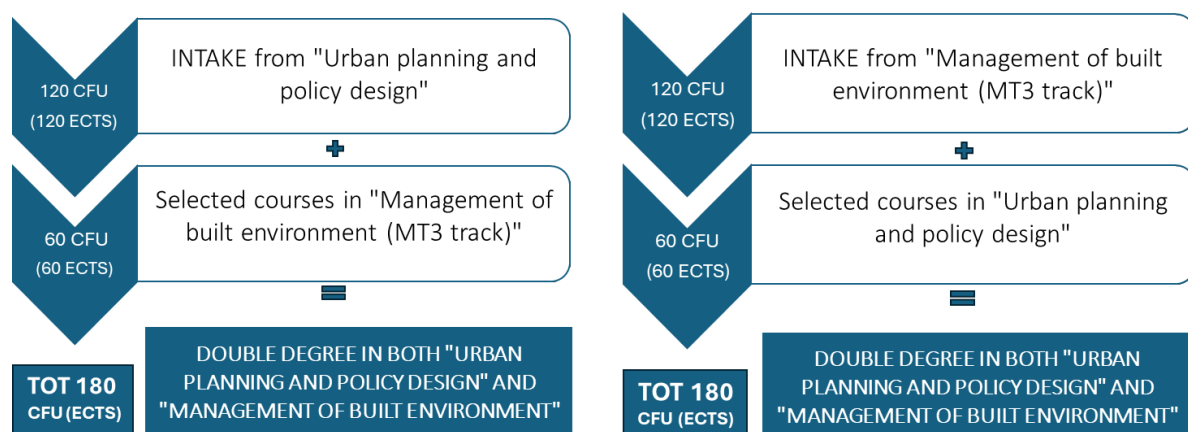


Figure 1 - General structure of the double degree programme



2.2 Detailed description of the study plan for students enrolling from the Management

CODE	COURSE TITLE	PROGRAMME	TYPE	CFU	CFU GROUP	YEAR	SEMESTER	SSD
063541	Risk and sustainability assessment of the built environment	MBE	CM	9	9	1	1	ICAR/12
	One among							
063515	Technological innovation and resilient real estate	MBE	CI	9	9	1	1	ICAR/12
096307	Business economics	MBE	CM	9		1	1	ING-IND/35
	One among							
063518	Building and construction technologies for energy efficiency	MBE	CM	9	9	1	1	ICAR/11
097610	Production management	MBE	CM	9		1	1	ING-IND/17
053119	Durability and maintenance	MBE	CI	12	12	1	2	ICAR/11
096312	Methods and tools for analysis of urban and territorial systems	MBE	CM	6	6	1	2	ICAR/21
053109	Regional economics + land rent theory	MBE	CM	12	12	1	2	SECS-P/06
063539	Value analysis and building maintenance management	MBE	CM	6	6	2	1	ICAR/11
063542	Facility Management Lab and digital services	MBE	CM	6	6	2	1	ICAR/12
051336	Construction management	MBE	CI	6	12	2	1	ICAR/11



051335	Administrative and public procurement law	MBE	CM	6	6	2	2	IUS/10
053117	Economic assessment of urban transformations	MBE	CM	9	9	2	2	SECS-P/06
063543	Sustainable and affordable housing	MBE	CM	9	9	2	2	ICAR/12
096322	Internship	MBE	T	3	3	2		
055734	Synthesis class - Technical Curriculum	MBE	PF	12	12	2		
063486	Planning Theory	UPPD	CM	6	6	1	1	ICAR/20
054497	Urban planning and design studio	UPPD	L	12	12	1	1	ICAR/21
063488	Territorial Challenges and Urban Space	UPPD	CI	10	10	1	1	ICAR/20 SPS/09
064655	Introduction to Visual Thinking	UPPD	CM	6	6	2	1	ICAR/17
054530	Conflicts management and resolution	UPPD	CM	6	6	2	1	ICAR/20
064661	Housing and neighbourhoods	UPPD	L	16	16	2	1	SPS/09 ICAR/20 ICAR/14
064656	Territories and Polycrisis. Policy, Governance and Spatial Justice	UPPD	CI	10	10	2	2	ICAR/20 M-GGR/02
	Internship	UPPD	T	4	1	2	1/2	

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

COD E	COURSE TITLE	PROGRAMME	TY PE	CF U	YE AR	SEMESTER	SSD	CFU GROUP
063482	Sociology of the City	UPPD	CM	4	1	1	SPS/09	4
063483	IC Urbanism history and practice							



0634 84	Town planning history	UPPD	ICI	4	1	1	ICAR/18	10
0634 85	Urbanism: issues and tools	UPPD	ICI	6	1	1	ICAR/21	
0634 86	Planning Theory	UPPD	CM	6	1	1	ICAR/20	6
	Planning studio (one among):							
0544 97	Urban planning and design studio	UPPD						
0545 02	Urban design	UPPD	IL	6	1	1	ICAR/21	12
0545 03	Urban planning	UPPD	IL	6	1	1	ICAR/21	
0545 04	Spatial planning and infrastructure design studio	UPPD						
0545 05	Spatial planning and design	UPPD	IL	6	1	1	ICAR/21	
0545 06	Infrastructure design	UPPD	IL	6	1	1	ICAR/21	
0634 88	Territorial Challenges and Urban Space	UPPD						
0634 90	Urban planning	UPPD	ICI	6	1	2	ICAR/20	10
0634 89	Social analysis	UPPD	ICI	4	1	2	SPS/09	
0634 87	Fragility and Antifragility in the spatial realm	UPPD	CM	6	1	2	ICAR/20	6
	Planning studio (one among):							
0545 16	Urban policies and design studio	UPPD						12
0545 18	Urban policies	UPPD	IL	6	1	2	ICAR/20	
0545 19	Urban Design	UPPD	IL	6	1	2	ICAR/21	
0545 20	Master plans studio	UPPD						
0545 21	Urban design	UPPD	IL	6	1	2	ICAR/21	
0545 22	Urban design process management	UPPD	IL	6	1	2	ICAR/20	
0646 55	Introduction to Visual Thinking	UPPD	CM	6	2	1	ICAR/17	6
0634 91	Regional economics and policy	UPPD	CM	4	2	1	SECS-P/06	4
	Tematic workshop (one among):							
0646 61	Housing and neighbourhoods	UPPD						16
0571 72	Social policies	UPPD	IL	6	2	1	SPS/09	



0571 73	Urban policies	UPPD	IL	6	2	1	ICAR/20	
0646 63	Housing Design	UPPD	IL	4	2	1	ICAR/14	
0646 62	Energy, Climate and Urban Planning	UPPD						
0963 55	Sustainable urban design	UPPD	IL	8	2	1	ICAR/20	
0556 96	Urban survey and representation	UPPD	IL	4	2	1	ICAR/17	
0646 64	Urban Sociology and Sustainan'bility Challenges	UPPD	IL	4	2	1	SPS/09	
0646 56	Territories and Polycrisis. Policy, Governance and Spatial Justice							
0646 57	Urban planning	UPPD	ICI	6	2	2	ICAR/20	10
0646 58	Political geography	UPPD	ICI	4	2	2	M-GGR/02	
0819 11	Internship	UPPD	T	4	2	2		4
0986 31	Final Thesis	UPPD	F	12	2	2		12
0997 32	IC Economics of public issues	UPPD						8
0997 33	Poverty, inequality and the welfare state	UPPD	ICI	4	2	2	SECS-P/03	
0997 34	Economic analysis of public policies	UPPD	ICI	4	2	2	SECS-P/03	
0963 15	Evaluation and management of real estate	MBE	CM	9			ICAR/12	9
	<i>One among</i>							
0635 15	Technological innovation and resilient real estate	MBE						9
0635 16	Smart and sustainable building types	MBE	ICI	6	1	1	ICAR/12	
0635 17	Real estate functions and innovation	MBE	ICI	3	1	1	ICAR/12	
0963 07	Business economics	MBE	CM	9	1	1	ING-IND/35	
	<i>One among</i>							
0635 18	Building and construction technologies for energy efficiency	MBE	CM	9	1	1	ICAR/11	9
0976 10	Production management	MBE	CM	9	1	1	ING-IND/17	
0531 19	Durability and maintenance	MBE	CM	12	1	2	ICAR/11	12
0513 36	Construction management	MBE						12



0513 37	Construction management A: principles	MBE	CI	6	2	1	ICAR/11	
0513 38	Construction management B: applications	MBE	CI	6	2	1	ICAR/11	
0531 17	Economic assessment of urban transformations	MBE	CM	9		9	SECS-P/06	9

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 -1/8 points (thesis with external reviewer/controrelatore).