

Laurea Magistrale (Master of Science) in Building and Architectural Engineering

Curriculum Building Engineering - Milano Città Studi campus

	ECTS	SSD	Notes
SEMESTER 1 - base courses	30		active in 2014-15
Engineering Design for Architecture (Fundamentals of Integrated Building Design + Fundamentals of Structural Design)	9+3	ICAR/10 ICAR/09	
Advanced Building Physics	9	ING-IND/11	
Advanced Construction Materials	9	ING-IND/22	
SEMESTER 2 - base + specialised courses	30		active in 2014-15
Structural Modelling and Analysis	9	ICAR/09	
Advanced Building Envelope Components Engineering	9	ICAR/10	
Building Energy Modelling + Building Envelope Design (part 1)	6+3	ING-IND/11 ICAR/10	
SEMESTER 3 - specialised courses	27		active in 2015-16
Earthquake Resistant Design	9	ICAR/09	Please note that semesters 3 and 4 are subject to change before they are activated.
Building Energy Modelling + Building Envelope Design (part 2)	3+6	ING-IND/11 ICAR/10	
<i>Elective course</i>	6	various	To be picked from the basket below.
Internship	3	-	
SEMESTER 4 - specialised courses & final thesis	33		active in 2015-16
Design of structure	12	ICAR/09	
Multiphysics Optimisation of Building Envelope (Building Envelope Design Lab + Heat and Mass Transfer Modelling Lab + Structural Analysis Lab)	6+3+3	ICAR/10 ING-IND/11 ICAR/09	
<i>Elective course</i>	6	various	To be picked from the basket below.
Final Thesis	9	-	
“basket” of elective courses			
	Building Envelope	Structures & Safety	Building Services
Project Management	Advanced Materials for Building Envelope	Advanced Materials in Structures	Energy Conversion Technologies
Cost Control	Digital and Parametric Design for Production and Construction	Structural Safety and Reliability	Acoustics, Fire, Drainage and Lifts
	Wind Engineering and Building Envelope Aerodynamics	Space / Air Structures	Electrical Services, Lighting Design and Advanced Lighting
	Diagnostics and Rehabilitation of Building Envelope		