



ANNEX 1

TEACHING RULES OF THE COURSE MASTER IN BUILDING ENGINEERING

CLASS LM-24

Polytechnic School and Basic Sciences

Department of Civil, Construction and Environmental Engineering

Regulations in force from a.y. 2023-2024

STUDY PLAN A.A. 2023-2024

Teachings	Scientific and disciplinary field	CFU	Type of Training Activity (*)	Prerequisites
I Year – 1° semester				
Geotechnical	ICAR/07	9	D	None
New strategies of territorial government	ICAR/20	9	B	None
Fundamentals of seismic engineering	ICAR/09	9	B	None
Free choice of teaching In the table A a D [1° o 2° Semester]		9	B/D	
I Year – 2° semester				
Architectural design	ICAR/14	9	B	None
BIM and modeling processes for construction	ICAR/17	9	B	None
Free choice of teaching In the table A a D [1° o 2° Semester]		9	B/D	None
Tot. 63 CFU				
II Year – 1° semester				
Project management and building maintenance: 1 form: Projects for technological services	ICAR/10	6	B	None
Project management and building maintenance: 2 form: Planned maintenance	ICAR/11	6	B	None
Free choice of teaching In the table A a D [1° o 2° Semester]		9	B/D	None
Free choice of teaching In the table E [1° o 2° Semester]		9	B	None
II Year – 2° semester				
Energy efficiency of the building and air conditioning systems	ING-IND/11	9	B	None
Traineeships/Additional knowledge		6	F	None
Final test		12	E	
Tot. 57 CFU				
Tot. 120 CFU				

Type of Training Activity	A	B	C	D	E	F	G
Type of Training Activity	1	2	3	4	5	6	7
rif. DM270/04	Art. 10 clause 1, a)	Art. 10 clause 1, b)	Art. 10 clause 5, a)	Art. 10 clause 5, b)	Art. 10 clause 5, c)	Art. 10 clause 5, d)	Art. 10 clause 5, e)

FREE CHOICE ROUTES RECOMMENDED TABLES A – B – C – D / [9 CFU]			
A Land Management and Building Management	B Structural and technological design	C Building restoration	D Design of environmental quality in buildings
Urban planning (ICAR/20) [Att. Form. B] First Semester	Buildings in Reinforced Concrete (ICAR/09) [Att. Form. D] Second Semester	Project of Building Recovery (ICAR/10) [Att. Form. B] Second Semester	Architectural acoustics and building (ING-IND/11) [Att. Form. B] Second Semester
Urban Project (ICAR/14) [Att. Form. B] Second Semester	Project of Structures in Steel (ICAR/09) [Att. Form. B] Second Semester	Diagnosis and Treatment of Structural Disorders (ICAR/09) [Att. Form. B] First Semester	Lighting (ING-IND/11) [Att. Form. B] First Semester
Project management for civil works (ING-IND/35) [Att. Form. D] Second Semester	Design Technology for the building (ICAR/10) [Att. Form. D] First Semester	Design and consolidation of masonry structures (ICAR/09) [Att. Form. D] First Semester	Innovative building technologies (ICAR/10) [Att. Form. B] First Semester
Safety at work sites (ICAR/11) [Att. Form. B] First Semester	Wooden Buildings (ICAR/09) [Att. Form. B] First Semester	Geotechnical surveys and monitoring (ICAR/07) [Att. Form. B] Second Semester	Structures for tall and large buildings (ICAR/09) [Att. Form. D] Second Semester

FREE CHOICE OF TEACHING TABELLA E	SSD	Type of Training Activity	Prerequisites	Course borrowed from
Urban planning First Semester	ICAR/20	C	None	
Urban Project Second Semester	ICAR/14	C	None	
Project management for civil works Second Semester	ING-IND/35	C	None	LM-ICIT
Safety at work sites First Semester	ICAR/11	C	None	
Hydraulic construction Second Semester	ICAR/02	C	None	L-ICIV
Materials and Techniques for the Protection of Cultural Heritage Second Semester	ING-IND/22	C	None	LM-IMAT
Roads and Bim for infrastructure First Semester	ICAR/04	C	None	L-ICIV
Buildings in Reinforced Concrete Second Semester	ICAR/09	C	None	
Project of Structures in Steel Second Semester	ICAR/09	C	None	
Design Technology for the building First Semester	ICAR/10	C	None	
Wooden Buildings First Semester	ICAR/09	C	None	LM-ISTG
Theory and design of ridges First Semester	ICAR/09	C	None	LM-ISTG
Technologies of ceramic materials First Semester	ING-IND/22	C	None	LM-IMAT
Project of Building Recovery Second Semester	ICAR/10	C	None	
Diagnosis and Treatment of Structural Disorders First Semester	ICAR/09	C	None	LM-ISTG
Design and consolidation of masonry structures First Semester	ICAR/09	C	None	
Geotechnical surveys and monitoring Second Semester	ICAR/07	C	None	LM-ISTG
Retrofit of historical monuments and principles of base isolation Second Semester	ICAR/09	C	None	
Environmental sustainability of materials Second Semester	ING-IND/22	C	None	
Limit Analysis of structures Second Semester	ICAR/08	C	None	LM-ISTG
Architectural acoustics and building Second Semester	ING-IND/11	C	None	
Lighting First Semester	ING-IND/11	C	None	
Innovative building technologies First Semester	ICAR/10	C	None	
Structures for tall and large buildings Second Semester	ICAR/09	C	None	
Special Structures and Fire Resistant Structures Project First Semester	ICAR/09	C	None	LM-ISTG
Structural Analysis with Finite Elements Second Semester	ICAR/08	C	None	LM-ISTG

OPTIONAL EXAMINATIONS 6CFU	SSD	Type of Training Activity	Prerequisites	Course borrowed from
Built Environment Second Semester	ICAR/20	C	None	
Safety and Resilience of Urban Systems Second Semester	ICAR/20	C	None	

Type of Training Activity		A	B	C	D	E	F	G
Type of Training Activity		1	2	3	4	5	6	7
rif. DM270/04		Art. 10 clause 1, a)	Art. 10 clause 1, b)	Art. 10 clause 5, a)	Art. 10 clause 5, b)	Art. 10 clause 5, c)	Art. 10 clause 5, d)	Art. 10 clause 5, e)