



**BACHELOR'S DEGREE IN  
TECHNIQUES FOR BUILDING CONSTRUCTION AND LAND DEVELOPMENT  
DEGREE PROGRAMME 2024/2025**

Course contents are available at this [link](#)

**1<sup>st</sup> year**

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Integrated Course: Mathematical Methods and Physics Principles for Construction and Land Development				
1	- Module: Mathematics	MAT/05	A	3	24
1	- Module: Physics	FIS/01	A	3	24
1	Digital Representation Techniques	ICAR/17	B	6	48
1	Integrated Course: Digitalization, BIM and Construction Management				
1	- Module: Digitalization and BIM	ICAR/11	B	4	32
1	- Module: Management	ICAR/22	B	3	24
1	Fundamentals of Computer Science, Data Analysis and Statistics	ING-INF/05	A	6	48
1	Integrated Course: Building Construction and Restoration				
1	- Module: Architectural Engineering	ICAR/10	B	5	40
2	- Module: Architectural design	ICAR/14	B	3	24
2	- Module: Restoration	ICAR/19	C	3	24
2	Integrated Course: Principles of Structural Mechanics and Design				
2	- Module: Structural Mechanics	ICAR/08	B	3	24
2	- Module: Structural Design	ICAR/09	B	3	24
2	Integrated Course: Geomatics Techniques for Construction and Land Development				
2	- Module: Building construction	ICAR/06	B	3	24
2	- Module: Land development	ICAR/06	B	3	24
2	Building LAB		F	10	120

**2<sup>nd</sup> year**

Sem	Teaching course	SSD*	TAF*	Credits	h
1	Integrated Course: Hydraulic infrastructures				
1	- Module: Hydraulics	ICAR/01	B	2	16
1	- Module: Water engineering	ICAR/02	B	2	16



1	Integrated Course: Spatial planning and infrastructures - Module: Road construction	ICAR/04	B	2	16
1	- Module: Tools for the acquisition and monitoring of transport data	ICAR/05	B	2	16
1	- Module: Digital tools for urban planning	ICAR/20	B	5	40
1	Occupational Health and Safety	ING-IND/28	C	6	60
1	Investigation, diagnosis and monitoring of constructions LAB		F	10	120
1	Integrated Course: Spatial planning legislation and Valuation - Module: Spatial planning legislation	IUS/10	B	3	24
1	- Module: Valuation	ICAR/22	B	3	24
2	Management of excavation materials and construction and demolition waste	ICAR/03	B	2	16
2	Spatial planning and infrastructures LAB		F	10	120
2	Construction Site LAB		F	10	120

**3<sup>rd</sup> year**

Sem	Teaching course	SSD*	TAF*	Credits	h
	Internship		F	48	1200
	Summary LAB		F	8	96

**Additional credits to be acquired**

Sem	Activity	SSD*	TAF*	Credits	h
	English Language Test <sup>1</sup>		E	3	
	Elective activities <sup>2</sup>		D	3	
	Final Exam		E	3	

**TOTAL CREDITS 180**

(1) The credits of European language level can be acquired:

- passing the English language test at B1 European level (CEFR) at Centro Linguistico d'Ateneo,
- showing appropriate certification of B1 European level (CEFR) knowledge.

(2) The elective activities must be consistent with the personal educational plan and they need approval by the Degree Programme Board.

**\*Abbreviations**

SSD	Scientific Disciplinary Sector
TAF	Type of Educational Activity