

**Studieninhalte für deutsche Studenten an der Università degli Studi di Trento
7. bis 10. Semester**

IV YEAR					
SEMESTER 7			SEMESTER 8		
Class	hours	credits	Modulo	hours	credits
Architecture and technology 2	50	5	Foundation engineering	50	5
Plastic and limit analysis of structures	40	4	Public works law	30	3
Structural dynamics	50	5	Matrix methods for structural analysis	30	3
Innovative construction materials	50	5	Plates and shells.	50	5
Soil and rock mechanics	50	5	Design of reinforced concrete structures	50	5
Structural analysis and design with RC	50	5	Programming and algorithms	30	3
			Structural analysis and design with PRC	50	5

V YEAR					
SEMESTER 9 & 10					
Class	hours	credits	Class	hours	credits
Characterizing elective course	50	5	Elective course 1 (see below)	50	5
Technical elective course 1	50	5	Elective course 2 (see below)	50	5
Technical elective course 2	50	5	Elective course 3 (see below)	50	5
Project lab (see below)	~125	5	Elective course 4 (see below)	50	5
			Elective course 5 (see below)	50	5
Foreign language 2	-	2	Final project 2	-	15

STRUCTURES/A CURRICULUM					
Characterizing and technical courses			Suggested elective courses		
Class	hours	credits	Class	hours	credits
Design of timber structures (*)	50	5	Stability of structures	50	5
Structural rehabilitation (*)	50	5	Seismic engineering (*)	50	5
Design of special structures (*)	50	5	Design of steel structures (*)	50	5
			Building restoration and preservation (*)	50	5
			Building site management (*)	50	5

STRUCTURES/B CURRICULUM					
Characterizing and technical courses			Suggested elective courses		
Class	hours	credits	Class	hours	credits
Design of steel structures (*)	50	5	Underground constructions (*)	50	5
Hydraulic constructions (*)	50	5	Computational mechanics 2	50	5
Stability of structures	50	5	Materials and fracture mechanics	50	5
			Continuum mechanics	50	5
			Structural identification and monitoring	50	5

INFRASTRUCTURES CURRICULUM					
Characterizing and technical courses			Suggested elective courses		
Class	hours	credits	Class	hours	credits
Road construction (*)	50	5	Earth retaining structures (*)	50	5
Underground constructions (*)	50	5	Urban planning techniques 2 (*)	50	5
Theory and design of bridges (*)	50	5	Structural identification and monitoring	50	5
			Slope stability	50	5
			Design of special structures (*)	50	5

SYSTEMS CURRICULUM					
Characterizing and technical courses			Suggested elective courses		
Class	hours	credits	Class	hours	credits
HVAC systems (*)	50	5	Typological characters of buildings (*)	50	5
Integral approach to design (*)	50	5	Renewable energies	50	5
Electrical applications and distrib. (*)	50	5	Tech. acoustic and lighting technique	50	5
			Industrialized construction methods	50	5