



Annex 1 – Template of the Double Degree study plan for UniTrento "Environmental Engineering" and ENPC "Diplôme d'ingénieur"

Note: Course lists and dates may be subject to change. The Study Plan can be updated by the Bilateral Committee. Before students start at the host institution, a course plan will be approved by both institutions.

Students enrolled at ENPC - "formation d'ingénieur"

Semester	Course	ECTS
	(year 1 and 2 of any track of "formation d'ingénieur")	

Students enrolled at UniTrento - Environmental Engineering

Semester	Compulsory	Course	ECTS	recognized
1	c	Structural design	12	12
1	c	Numerical methods for the environment	9	9
1	c	Ecological planning	9	9
2	c	Hydrodynamics	12	12
2	c	Urban hydraulic infrastructures	6	6
2	c	Hydrological modeling	6	6
2		Course depending on the track	6	6

FIRST YEAR at UniTrento 60 60

Courses at UniTrento for "Environmental Sustainability and International Cooperation" (other tracks can be selected)

1	Structural design	12
1	Numerical methods for the environment	9
1	Ecological planning	9
2	Hydrodynamics	12
2	Urban hydraulic infrastructures	6
2	Hydrological modeling	6
2	Course depending on the track	6
1,2	Engineering for international sustainable development: Methods and project work	12
1	Water and sediment management for sustainable development	6
2	Near-zero-energy technologies for waste and sanitation	6
1	Nature-based solutions for urban sustainability	6
1,2	Other activities	3
2	Final project	15
1,2	Elective course	6
1,2	Elective course	6

2 YEARS at UniTrento 120

Courses at ENPC from CITY, ENVIRONMENT, TRANSPORTATION (VET)

	Water and Urban Environment Workshop	6	4
c	Global environmental issues and sustainable development	1.5	1.5
	Crisis management	1.5	1.5
c	Territorial policies and local finances	3	3
	Environment, water and meteorology	6	6
	Water treatment technologies	1.5	1.5
	Atmospheric environment and air quality	3.5	3.5
	Environmental and industrial risks	2.5	2.5
c	Challenges related to Urban Planning and Environment	1.5	1.5
	Methods of analysis of territorial systems	4.5	4.5
c	Internship	2.5	2.5
c	Internship feedback	1.5	1.5
c	Graduation project	30	15
c	Carbon Footprint and Life Cycle Assessment	1.5	1.5
c	Introduction to law	3	3
	Seminar - Department Project	6	2
c	Statistics	2	2
	Environment and energy economics	3	3
	Free choice of courses	21	
c	Autonomous vehicle and electric mobility	1.5	
c	Business Management	2	
c	Humanities and Social Sciences	3	
c	Coaching and Career Guidance	0.5	
c	Languages	4.5	
c	Languages	7.5	
c	Sport	1	

2 YEARS at ENPC 122 60

TOTAL ECTS 182 120

Annex 2

Template of the Double Degree study plan for UniTrento Civil Engineering students enrolled in the Master "Mechanics of soils, rocks and structures in their environment" (MSROE) at ENPC

Notes: Course lists and dates may be subject to change. The Study Plan can be updated by the Bilateral Committee. Before students start at the host institution, a course plan will be approved by both institutions.

Semester	Course at ENPC	ECTS at ENPC	Course substituted at UniTrento	ECTS at UniTrento	Type at UniTrento	SSD at UniTrento	ECTS transferred	ECTS transferred as extra	ECTS to be done at UniTrento
a	PIR Initiation à la Recherche	9	Other activities	3	F		3	6	
b	Stage de recherche	18	Final project	15	E		15	3	
b	M3G Modélisation multi physique et multi échelle pour les géomatériau	6	Learning path course 3	6	B	ICAR/07	6		
b	MROS Mécanique des roches et des ouvrages souterrains	6	Elements of rock mechanics and underground construction	6	B	ICAR/07	6		
a	MN Méthodes numériques	3	Earth retaining structures	6	B	ICAR/07	6		
a	ISSFS Interactions sols-structures pour les fondations et les soutènements + PPN	6	Elective course	6	D	ICAR/02	3		
a	CNL Comportement non linéaire	3	Elective course	6	D	ICAR/07	3		
a	ME Méthodes expérimentales	3	Elective course	6	D	ICAR/07	3		
a	GPÉR Génie parasismique et évaluation des risques	6	Seismic engineering and structural design *	12	B	ICAR/09	3		9 *
		60		60			51	9	9

* The required credits for the course of "Seismic engineering and structural design" will be taken at UniTrento outside the mobility period at ENPC.

Annex 3

Template of the Double Degree study plan for UniTrento Civil Engineering students enrolled in the Master "Transport and Mobility" (TM) at ENPC

Notes: Course lists and dates may be subject to change. The Study Plan can be updated by the Bilateral Committee. Before students start at the host institution, a course plan will be approved by both institutions.

Semester	Course at ENPC	ECTS at ENPC	Course substituted at UniTrento	ECTS at UniTrento	Type at UniTrento	SSD at UniTrento	ECTS transferred	ECTS transferred as extra	ECTS to be done at UniTrento
b	Recherche	25	Final project	15	E		15	10	
b	Séminaire de recherche	5	Other activities	3	F		3	2	
a	Evaluation des projets d'infrastructures	3	Road design and construction	6	B	ICAR/04	6		
a	Ingénierie du trafic 1	3							
a	Ingénierie du trafic 2	3	Learning path course 2	6	B	ICAR/04	6		
a	Transports collectifs urbains	3							
a	Logistique	6	Learning path course 3	6	B	ICAR/04	6		
a	Séminaire de recherche	3							
a	Techniques mathématiques avancées pour le transport	3	Elective course	6	D		6		
a	Système de transport de marchandises	3							
a	Transport maritime, fluvial et ports	3	Elective course	6	D		6		
			Seismic engineering and structural design	12	B	ICAR/09			12 *
		60		60			48	12	12

* The required credits for the course of "Seismic engineering and structural design" will be taken at UniTrento outside the mobility period at ENPC.