

## 2. Program (Taught modules)

### Semester 1 : Master Structures

Teaching unit	materials	Credits	Coefficient	Weekly hourly volume			Semester timetable volume (15 weeks)	Complementary work in Consultation (15 weeks)	Assessment method	
	Entitled			Class	Tutorial	PW			Continuous monitoring	Exam
Fundamental UT Code : UTF 1.1.1 Credits : 8 Coefficients : 4	Structural mechanics	4	2	1h30	1h30		45h00	55h00	40%	60%
	Structural dynamics 1	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental UT Code : UTF 1.1.2 Credits : 10 Coefficients : 5	Reinforced concrete structures 1	4	2	1h30	1h30		45h00	55h00	40%	60%
	Metallic structures	6	3	3h00	1h30		67h30	82h30	40%	60%
Methodological UT Code : UTM 1.1 Credits : 9 Coefficients : 5	Complementary programming	4	2	1h30		1h30	45h00	55h00	40%	60%
	Experimental methods	2	1			1h30	22h30	27h30	100%	
	Innovative materials	3	2	1h30		1h00	37h30	37h30	40%	60%
Discovery UT Code : UTD 1.1 Credits : 2 Coefficients : 2	Choice of matter 1	1	1	1h30			22h30	02h30		100%
	Choice of matter 2	1	1	1h30			22h30	02h30		100%

Transversal UT Code : UTT 1.1 Credits : 1 Coefficients : 1	Technical English and terminology	1	1	1h30			22h30	02h30		100%
<b>Total semestre 1</b>		<b>30</b>	<b>17</b>	<b>13h00</b>	<b>7h30</b>	<b>4h30</b>	<b>375h00</b>	<b>375h00</b>		

### 3. Program (Taught modules)

#### Semester 2 : Master Structures

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Semester timetable volume (15 weeks)	Complementary work in Consultation (15 weeks)	Assessment method	
	Entitled			Class	Tutorial	PW			Continuous monitoring	Exam
Fundamental UT Code : UTF 1.2.1 Credits : 10 Coefficients : 5	Elasticity	6	3	3h00	1h30		67h30	82h30	40%	60%
	Structural dynamics 2	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental UT Code : UTF1.2.2 Credits : 8 Coefficients : 4	Reinforced concrete structures 2	4	2	1h30	1h30		45h00	55h00	40%	60%
	Foundations and supports	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodological UT Code : UTM 1.2 Credits : 9 Coefficients : 5	Finite element methods	3	2			2h30	37h30	37h30	100%	
	Metal constructions project	6	3	1h30	3h00		67h30	82h30	60%	40%
Discovery UT Code : UTD 1.2 Credits : 2	Choice of matter 3	1	1	1h30			22h30	02h30		100%
	Choice of matter 4	1	1	1h30			22h30	02h30		100%

Coefficients : 2 Transversal UT Code : UTT 1.2 Credits : 1 Coefficients : 1	Ethics, professional conduct and intellectual property	1	1	1h30			22h30	02h30		100%
<b>Total semestre 2</b>		<b>30</b>	<b>17</b>	<b>13h30</b>	<b>9h00</b>	<b>2h30</b>	<b>375h00</b>	<b>375h00</b>		

### 1. Program (Taught modules)

#### Semester 3 : Master Structures

Teaching unit	Materials	Credits	Coefficient	Weekly hourly volume			Semester timetable volume (15 weeks)	Complementary work in Consultation (15 weeks)	Assessment method	
	Entitled			Class	Tutorial	PW			Continuous monitoring	Exam
Fundamental UT Code : UTF 2.1.1 Credits : 10 Coefficients : 5	Prestressed concrete	6	3	3h00	1h30		67h30	82h30	40%	60%
	Plasticity and damage	4	2	1h30	1h30		45h00	55h00	40%	60%
Fundamental UT Code : UTF 2.1.2 Credits : 8 Coefficients : 4	Earthquake engineering	4	2	1h30	1h30		45h00	55h00	40%	60%
	Special works	4	2	1h30	1h30		45h00	55h00	40%	60%
Methodological UT Code : UTM 2.1 Credits : 9 Coefficients : 5	Modeling of structures	3	2			2h30	37h30	37h30	100%	
	Reinforced concrete structures project	6	3	1h30	3h00		67h30	82h30	60%	40%

Discovery UT Code : UTD 2.1 Credits : 2 Coefficients : 2	Choice of matter 5	1	1	1h30			22h30	02h30		100%
	Choice of matter 6	1	1	1h30			22h30	02h30		100%
Transversal UT Code : UTT 2.1 Credits:1 Coefficients : 1	Documentary research and memory design	1	1	1h30			22h30	02h30		100%
<b>Total semestre 3</b>		<b>30</b>	<b>1 7</b>	<b>13h3 0</b>	<b>9h00</b>	<b>2h3 0</b>	<b>375h00</b>	<b>375h00</b>		

## 2. Program (Taught modules)

### Discovery UT (S1, S2, S3)

**Basket = Choose a subject of 3 hours (1h30 of class and 1h30 of tutorials) or two subjects of 1h30 each**

1. *Building*
2. *Various Channels and Networks*
3. *Natural and technological risks*
4. *Public procurement code*
5. *Pathologies and rehabilitation of structures*
6. *Building thermal*
7. *General construction procedures*
8. *Planning and project management*
9. *Others*

## 1. Program (Taught modules)

### Semester 4

Internship in a company leading to a dissertation and a defense.

	STV	Coeff	Credits
Personal work	550	09	18
Company internship	100	04	06
Seminars	50	02	03
Other (Framing)	50	02	03
Total Semester 4	750	17	30

### This table is given as an indication

#### Evaluation of the End of Master Cycle Project

- Scientific value (Jury appreciation) / 6
- Writing of the dissertation (Jury appreciation) / 4
- Presentation and answer to questions (Appreciation of the jury) / 4
- Appreciation of the supervisor / 3
- Presentation of the internship report (Jury appreciation) / 3