

Semester 1 Master: Materials in Civil Engineering

Course Unit	Subject title	Credits	Coefficient	Weekly hourly volume			Half-Yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation mode	
				Cours	TD	TP			Continuous Assessment	Exam
CU Fondamental Code : UEF 1.1.1 Credits : 8 Coefficients : 4	Theory of Elasticity	4	2	1h30	1h30		45h00	55h00	40%	60%
	Mineral binders	4	2	1h30	1h30		45h00	55h00	40%	60%
CU Fondamental Code : UEF 1.1.2 Crédits : 10 Coefficients : 5	Concrete Technology	4	2	1h30	1h30		45h00	55h00	40%	60%
	Reinforced Concrete Structures	6	3	3h00	1h30		67h30	82h30	40%	60%
CU Methodological Code : UEM 1.1 Credits : 9 Coefficients : 5	TP Materials Physics	4	2			1h30	22h30	55h00	100%	
	TP Binders	3	2			2h30	37h30	37h30	100%	
	TP Concrete Technology	2	1			3h30	45h00	27h30	100%	
CU Discovery Code : UED 1.1 Credits : 2 Coefficients : 2	<i>Basket of choice</i>	1	1	1h30			22h30	02h30		100%
	<i>Basket of choice</i>	1	1	1h30			22h30	02h30		100%
CU Transversal Code : UET 1.1 Credits : 1 Coefficients : 1	Technical English and Terminology	1	1	1h30			22h30	02h30		100%
Total semestre 1		30	17	10h30	7h30	7h00	375h00	375h00		

Semester 2 Master: Materials in Civil Engineering

Course Unit	Subject title	Credits	Coefficient	Weekly hourly volume			Half-Yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation mode	
				Cours	TD	TP			Continuous Assessment	Exam
CU Fondamental Code : UEF 1.2.1 Credits : 10 Coefficients : 5	Plasticity and damage	6	3	3h00	1h30		67h30	82h30	40%	60%
	Special Construction Materials	4	2	3h00			45h00	55h00	40%	60%
CU Fondamental Code : UEF 1.2.2 Credits : 8 Coefficients : 4	Innovative concretes 1	4	2	3h00			45h00	55h00		100%
	Metal frame works	4	2	1h30	1h30		45h00	55h00	40%	60%
CU Methodological Code : UEM 1.2 Credits : 9 Coefficients : 5	TP Materials Mechanics	2	1			1h30	22h30	27h30	100%	
	Informatics applied to the calculation of reinforced concrete structures	3	2			2h30	37h30	37h30	100%	
	Experimental methods	4	2	1h30		1h30	45h00	55h00	40%	60%
CU Discovery Code : UED 1.2 Credits : 2 Coefficients : 2	<i>Basket of choice</i>	1	1	1h30			22h30	2h30		100%
	<i>Basket of choice</i>	1	1	1h30			22h30	2h30		100%
CU Transversal Code : UET 1.2 Credits : 1 Coefficients : 1	Compliance with standards and rules of ethics and integrity	1	1	1h30			22h30	02h30		100%
Total semestre 2		30	17	13h30	4h30	5h30	375h00	375h00		

Semester 3 Master: Materials in Civil Engineering

Course Unit	Subject title	Credits	Coefficient	Weekly hourly volume			Half-Yearly Hourly Volume (15 weeks)	Additional Work in Consultation (15 weeks)	Evaluation mode	
				Cours	TD	TP			Continuous Assessment	Exam
CU Fondamental Code : UEF 2.1.1 Credits : 12 Coefficients : 6	Composites Materials	4	2	1h30	1h30		45h00	55h00	40%	60%
	Recycled Materials	4	2	1h30	1h30		45h00	55h00	40%	60%
	Prestressed concrete	4	2	1h30	1h30		45h00	55h00	40%	60%
CU Fondamental Code : UEF2.1.2 Credits : 6 Coefficients : 3	Durability of Materials	4	2	3h00			45h00	55h00		100%
	Innovative concretes 2	2	1	1h30			22h30	27h30		100%
CU Methodological Code : UEM 2.1 Credits : 9 Coefficients : 5	Finite elements	4	2	1h30		1h30	45h00	55h00	40%	60%
	TP Durability of Materials	3	2			2h30	37h30	37h30	100%	
	TP Innovative concretes	2	1		1h30		22h30	27h30	100%	
CU Discovery Code : UED 2.1 Credits : 2 Coefficients : 2	<i>Basket of choice</i>	1	1	1h30			22h30	02h30		100%
	<i>Basket of choice</i>	1	1	1h30			22h30	02h30		100%
CU Transversal Code : UET 2.1 Credits : 1 Coefficients : 1	Documentary research and dissertation design	1	1	1h30			22h30	02h30		100%
Total semestre 3		30	17	16h30	4h30	4h00	375h00	375h00		

Discovery Course Unit (S1, S2, S3)

1. Thermal Engineering of Buildings
2. Codes and Regulations
3. Rheology of Materials
4. Hydration and Structuring of Cement Pastes
5. Experiment plans
6. Construction Pathology
7. Business organization and management
8. Other

Semester 4 Master: Materials in Civil Engineering

Internship in a company leading to a dissertation

	VHS	Coeff	Credits
Personal Work	550	09	18
Internship in a company	100	04	06
Seminars	50	02	03
Other (Supervision)	50	02	03
Total Semester 4	750	17	30

This table is provided for informational purposes only.

Master's End-of-Cycle Project Evaluation

- Scientific merit (Jury's assessment) /6
- Writing the dissertation (Jury's assessment) /4
- Presentation and response to questions (Jury's assessment) /4
- Supervisor's assessment /3
- Presentation of the internship report (Jury's assessment) /3
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