

Teaching unit - Designation of the courses	ECTS	Coeff.	Lect.	Tut.	PW
Semester 5	30				
Fundamentals for materials science engineering I	13	12			
Introduction seminar 1: Introduction to materials engineering	0	0	4	-	-
Introduction seminar 2 : Research organization and strategy	0	0	2	-	2
Mathematics for engineers 1 : Engineering mathematic tools	2	2	20	20	-
Mathematics for engineers 2 : Errors-uncertainties in measures	2	1	10	10	-
Basic physics: Mechanics, electrostatic, electricity	4	4	26	26	4
Fundamental in chemistry 1 : Chemistry of matter	2	2	12	12	-
Fundamental in chemistry 2 : Aqueous chemistry	2	2	12	12	-
Engineering digital tools 2 : Bibliography / Zotero	0	0	2	-	2
Engineering digital tools 3 : Excel and scientific data processing	1	1	-	6	-
Fundamentals for materials science engineering II	12	20			
Physic in solids	3	4	20	20	-
Thermodynamic	2	3	16	16	-
Crystallography (X-ray, TEM characterizations)	3	4	18	18	10
Organic and inorganic chemistry	3	4	20	24	-
Materials engineering project	1	1	-	5	-
Science engineering I	5	5			
English 1 : International culture	2	2	-	20	-
English TOEIC	0	0	-	20	-
Engineering digital tools 1 : Digital responsibility	1	1	10	6	-
Business organization and operation	1	1	10	-	-
Intercultural management	1	1	6	-	-
MOUV S5 - Opening module on interculturality	0	0	-	-	-
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Semester 6	30				
Fundamentals for materials science engineering III	11	15			
Transport phenomena 1 : Electrochemistry	2	2	14	14	-
Transport phenomena 2 : Diffusion in matter	2	2	10	10	-
Transport phenomena 3 : Heat transfer	2	2	10	10	-
Dielectric and magnetic materials	2	3	10	10	-
Matlab software	1	2	8	20	-
Thermodynamic and Energetics	0,5	1	-	-	24
Industry events/news	1	2	12	12	-
Databases	0,5	1	6	6	-
Material groups	11	18			
Metals and alloys	2	3	16	16	-
Glass and ceramics	2	2	10	10	-
Polymers 1 : Polymers	1	1	6	6	-
Polymers 2 : Elastomers	1	2	10	8	-
Polymers 3 : Plastic engineering	1	2	-	4	30
Composite materials	1	3	18	-	8
Semiconductor materials	1	2	8	8	-
Characterization of materials I	2	3	-	-	40
Seminars / Webinars / Industry visits	0	0	-	4	-
Science engineering II	5	5			
English 2 : Professional tools	2	2	-	20	-
English TOEIC	0	0	-	20	-
Corporate financial management	1	1	4	6	-
Personal professional project 1	0,5	0,5	-	6	-
Sustainable development and social responsibility	1	1	6	10	-
MOUV S6 - Opening module on interdisciplinarity	0,5	0,5	24	-	-
Training	3	1			
Training in industry 3 rd year	3	1		1 to 2 months	