

Hydrogen-Energy and Energy Efficiency (CMI H3E) _ Bachelor

Specific courses CMI

	ECTS	CM	TD	TP	Total
Semester 01	6	20			20
English and occupational integration	3	20			20
ELC1 - English CMI1	1	12			12
ELC2 - Occupational integration CMI1	2	8			8
Internship Bachelor 1 or 2	3				0
Semester 02	6	28	6		34
Occupational integration CMI1	3	12	6		18
ELC1 - Portfofolio of experiences and skills (PEC)	1		6		6
ELC2 - Expression Communication	2	12			12
R+D in laboratory CMI1	3	16			16
Semester 03	6	8	30		38
International relations	3	20			20
ELC1 - English CMI2	2	12			12
ELC2 - Occupational integration CMI2	1	8			8
Electrochemistry	3	8	10		18
Semester 04	6	8	26		34
Chemistry	3	8	10		18
R+D in laboratory CMI2	3	16			16
Semester 05	6	12	26	4	42
Academic remediation	4	12	10	4	26
ELC1 - Cogeneration	2	6	6	4	16
ELC1 - Similitary and dimensional analysis	2	6	4		
Project management	2	16			16
Semester 06	6	9	29		38
English CMI3	3	20			20
Company culture	3	9	9		18

Hydrogen-Energy and Energy Efficiency (CMI H3E) _ Master

Specific courses CMI

		ECTS	CM	TD	TP	Total
Semester 07		8	32	17	9	58
Hydrogen Energy & Energy Systems		6	22	9	9	40
ELC1 - Fuel Cell		2	8	4	3	15
ELC2 - Thermal Management of Electric Machines		2	6	3	6	15
ELC3 - Energy Branch		2	8	2		
The company		2	10	8		18
Semester 08		6	36	12	12	60
Hydrogen Energy & Energy Efficiency		6	36	12	12	60
ELC1 - Conversion and Energy Efficiency		2	12	4	4	20
ELC2 - Energy Grids		2	12	4	4	20
ELC3 - Energy Storage		2	12	4	4	20
Semester 09		10	30	36	18	84
Clean sustainable energy production		6	30	12	18	60
ELC1 - Advanced Cogeneration		2	10	4	6	20
ELC2 - Advanced Fuel Cell Technologies		2	10	4	6	20
ELC3 - Electrolysis Hydrogen Production		2	10	4	6	
Semester 10		4		48		48
Management, Engineering, environment, society		4		24		24
ELC 1 - Management		2		12		
ELC 2 - Engineering, environment, society		2		12		

 Courses taught in English