

MSc Energy Storage @ IST – Year 1 and 2

Study year	Course name	Course code	ECTS count	Course Type
1	Energy Management	GEne	4.5	Compulsory
1	Economics and Energy Markets	EMEnE	6	Compulsory
1	Environmental and Sustainability Challenges in Engineering	ERPD	1.5	Compulsory
1	Decision Support Models	MADec	6	Compulsory
1	Renewable Sources and Distributed Power Generation	DASE	6	Compulsory
1	Project in Energy Engineering and Management 1	PEGE-1	6	Compulsory

Study year	Course name	Course code	ECTS count	Course Type
1	Electronic Fundamentals	FEle	6	Harmonization
1	Electric and Electromechanical Systems	SEE	6	Harmonization
1	Instrumentation and Measurement	IM	7.5	Harmonization
1	Thermodynamics and Transport Phenomena nor	TFT or	6	Harmonization
1	Energy and Mass Transfer	TEM	6	Harmonization
1	Fluid Mechanics I or	MF-I or	6	Harmonization
1	Transport Phenomena I	FT I	6	Harmonization

Study year	Course name	Course code	ECTS count	Course Type
1	Combustion	C	6	Harmonization
1	Biofuels	Bioc	6	Specialization
1	Electrical Machines	Mele	6	Specialization
1	Energy Storage	Aene	6	Specialization
1	Hydropower	Hidroe	6	Specialization
1	Photovoltaic Solar Energy	ESF	6	Specialization
1	Power System Network Analysis	Ared	6	Specialization

Study year	Course name	Course code	ECTS count	Course Type
1	Solar Thermal Energy	EST	6	Specialization
1	Waste to Energy	VER	6	Specialization
1	Alternative Fuels	Calt	6	Specialization
1	Electrochemistry and Energy	EEne	6	Specialization
1	Hydromineral and Geothermal Resources	RHG	6	Specialization
1	Marine Current & Tidal Energy	ECMar	6	Specialization
1	Offshore Wind Energy	EEO	6	Specialization

Study year	Course name	Course code	ECTS count	Course Type
1	Pump and Hydro Power Systems	SEH	6	Specialization
1	Turbomachinery	Tur	6	Specialization
1	Wave Energy	EOnD	6	Specialization
2	Biofuels	Bioc	6	Specialization
2	Electrical Machines	Mele	6	Specialization
2	Energy Storage	Aene	6	Specialization
2	Hydropower	Hidroe	6	Specialization

Study year	Course name	Course code	ECTS count	Course Type
2	Photovoltaic Solar Energy	ESF	6	Specialization
2	Power System Network Analysis	Ared	6	Specialization
2	Solar Thermal Energy	EST	6	Specialization
2	Waste to Energy	VER	6	Specialization
2	Alternative Fuels	Calt	6	Specialization
2	Electrochemistry and Energy	EEne	6	Specialization
2	Hydromineral and Geothermal Resources	RHG	6	Specialization

Study year	Course name	Course code	ECTS count	Course Type
2	Marine Current & Tidal Energy	ECMar	6	Specialization
2	Offshore Wind Energy	EEO	6	Specialization
2	Pump and Hydro Power Systems	SEH	6	Specialization
2	Turbomachinery	Tur	6	Specialization
2	Wave Energy	EOnd	6	Specialization
2	Project in Energy Engineering and Management 2	PEGE-2	6	Compulsory

Study year	Course name	Course code	ECTS count	Course Type
2	Master Thesis in Energy Engineering and Management	DEGE	30	Compulsory