

Sustainable Energy Engineering MSc / Year 1/ SUT

	Module	Courses	Semester I						Semestr II							
			TOTAL	Lecture	Execrcises	Lab	Project	Seminar	ECTS	TOTAL	Lecture	Execrcises	Lab	Project	Seminar	ECTS
1	Język obcy		30		30				2	30		30				2
2	HES (Entrepreneurship and project management)		50	20			30		4	50				50		4
		Project management course	50	20			30		4							
		Business planning course								30				30		2
		Business presentations and public speaking								20				20		2
3	Applied mathematics		60	30			30		5							
		Applied mathematics in energy processes and systems		30			30		5							
4	Environment and Energy Policy		100	60			40		8							
		Energy Policy	25	15			10		2							
		Environmental impact in full life cycle (LCA)	60	30			30		5							
		Circular economy	15	15					1							
5	Mathematical Modelling of Energy Systems									35	10		25			3
		Mathematical modeling of energy processes and systems								25			25			2
		Smart systems energy and heating grids								10	10					1
6	Heat and Power Technology		95	35		30	30		8							
		Clean combustion technologies and modern boilers	70	25		30	15		6							
		Gasification and pyrolysis	25	10			15		2							
7	Renewable energy technology									100	65	0	20	15		8
		Renewable energy technology overview								30	30					2
		Energy storage for sustainable energy systems								15	15					1
		Waste to energy								30	10		20			3
		Alternative fuels								25	10			15		2
8	Applied energy technology (PBL) - elective module									100				100		8
		Applied energy technology (PBL) - elective module								100				100		8
9	Harmonization/scientific coaching/tutoring - elective		15						15	1					35	3
		Harmonization/scientific coaching/tutoring - elective	15						15	1					35	3
		Harmonization/scientific coaching/tutoring - elective														
10	Elective - free courses		25	25					2	25	25					2
		Elective - free courses	25	25					2							
		Elective - free courses								25	25					2
RAZEM:			375	170	30	30	130	15	30	375	100	30	45	165	35	30

- General courses
- Basic courses
- Other basic and directional
- Directional courses
- Compulsory courses