

Rok akademicki: 2017/18

Specjalność: BIOTECHNOLOGY FOR ENVIRONMENTAL PROTECTION (BI) INTELLIGENT ENERGY (IE)

semester I			
	I.7. Management	2L	
			[2 ECTS]
	I.1. Engineering Design I	1L, 3Lab	[6 ECTS]
	I.6. Chemistry	2LE, 2T	[6 ECTS]
	I.2. Engineering Physics-Mechanics I	2LE, 2T	[6 ECTS]
	I.3. Mathematics I	3LE, 2T	[6 ECTS]
	I.4. Computer science	1L, 1T	[2 ECTS]
	I.5. Communication skills	4T	[2 ECTS]
semester II			
	II.3. Engineering Physics-Electromagnetism	2L, 1T	[4 ECTS]
	II.2. Engineering Design II – CAD	1LE, 3Lab	[6 ECTS]
	II.1. Biology, Ecology and Environmental Protection I	1L, 1T, 2Lab	[5 ECTS]
	II.5. Engineering Physics-Mechanics II	2LE, 2T	[6 ECTS]
	II.6. Mathematics II	3L, 2T	[6 ECTS]
	II.7. Sports	2T	[1 ECTS]
	II.8. Communication skills	4T	[2 ECTS]
semester III			
	III.7 Project	3P (BI)/ 3P (IE)	[4 ECTS]
	III.10. Micro- and Macro Economics I	2L, 1T	[3 ECTS]
	III.8. Earth Science and Hydrology	2L	[2 ECTS]
	III.9. Civil Engineering	1L, 1P	[2 ECTS]
	III.1. Biology, Ecology and Environmental Protection II	1L, 2T	
	III.3. Engineering Design III - Materials	2LE, 1T, 2Lab	[6 ECTS]
	III.4. Engineering Physics-Mechanics III	2LE, 1T, 1Lab	[6 ECTS]
	III.11. Introduction to numerical methods	1L, 1Lab	[3 ECTS]
	III.6. Sports	2T	[1 ECTS]
semester IV			
	IV.6. Project	3P (BI)/ 3P (IE)	[3 ECTS]
	IV.8. Engineering Costing	2L, 1T	[3 ECTS]
	IV.7. Micro- and Macro Economics II	2LE, 1T	[3 ECTS]
	IV.9. Commercial Law	2L	[2 ECTS]
	IV.2. Electrical Design	2LE, 1Lab	[4 ECTS]
	IV.3. Automatic Control and Robots	2L, 1Lab	[3 ECTS]
	IV.4. Engineering Metrology	1L, 1Lab	[2 ECTS]

	&nbsp;IV.1. Biology, Ecology and Environmental Protection III	1L, 2T	[3 ECTS]
	IV.5. Engineering Physics - Fluid Mechanics	2LE, 1T, 1Lab	[5 ECTS]
Industrial Internship semester V	4 weeks	[2 ECTS]	
	&nbsp;V.3. Project	5P (BI)/ 5P (IE)	[6 ECTS]
	V.11. Heat and Mass Transfer	2LE, 1T	[4 ECTS]
	V.5. Quality and Safety Management	2L	[3 ECTS]
	V.8. Soil science and recultivation	2LE, 2Lab	[5 ECTS]
	V.9. Sanitary and gas systems	1L, 1T, 1P	[4 ECTS]
	V.10. Technology of water and wastewater treatment	1L, 2Lab	[3 ECTS]
	V.4. Management of Waste	2L, 2Lab	[5 ECTS]
semester VI			
	VI.9. Modelling of Environmental Hazards	3Lab	[4 ECTS]
	VI.10. Bioremediation	1L, 1T	[3 ECTS]
	VI.11. Water Management and Protection	1L, 1T	[3 ECTS]
	VI.1. Management of the Mmachines Exploitation	1L, 1T	[2 ECTS]
	VI.2. Procedures for Obtaining Quality Marks	1L, 1T	[2 ECTS]
	VI.3. Optimization Methods	2L, 1Lab	[3 ECTS]
	VI.4. Mathematics III - statistics	2L, 1T	[4 ECTS]
	VI.5. Engineering Physics – Thermodynamics	2L, 1T, 1Lab	[5 ECTS]
	VI.6. Engineering Physics-Wave Optics and Contemporary Physics	2L, 1Lab	[4 ECTS]
semester VII			
	VII.7. BSc Diploma Thesis	[15 ECTS]	
	&nbsp;VII.3. Logistics in Enterprise	2L	[2 ECTS]
	VII.4. Marketing	2L	[2 ECTS]
	&nbsp;VII.10. HVAC	2LE, 2T	[5 ECTS]
	VII.5. Protection of Atmosphere	2L, 2T	[4 ECTS]
	VII.13. Diploma Seminar	1S	[1 ECTS]
	VII.14. Intellectual Property Rights	1L	[1 ECTS]

L - Wykład LE - Wykład zakończony egzaminem T - Ćwiczenia Lab - Laboratorium