

CURRICULUM OF FULL TIME STUDY

(approved by Faculty Council on 15.05.2019)

Field of study: ENVIRONMENTAL ENGINEERING

Bachelor of Engineering degree

Specialization: Sanitary networks, installations and equipment

FULL TIME PROGRAMME			SEMESTER I						(15 weeks)	
Lp.	Module name	Module ID	Hours per week						Hours per semester	ECTS
			L	C	LC	SW	P	S		
1	Matematics I - basics (E)	EE1S11001	2	2					60	5
2	Physics (E)	EE1S11002	1	1	2				60	5
3	Hydrology	EE1S11003	1			1			30	4
4	IT basics of design (E)	EE1S11004	2			2			60	5
5	Engineering graphics and CAD	EE1S11005				2			30	3
6	Descriptive geometry	EE1S11006	1	1					30	4
7	HES I	EE1S11008	1	1					30	3
8	Protection of intelectual property	EE1S11007	1						15	1
10	Physical Education I	EE1S11059		2					30	0
Total :			9	7	2	5			345	30

FULL TIME PROGRAMME			SEMESTER II						(15 weeks)	
Lp.	Module name	Module ID	Hours per week						Hours per semester	ECTS
			L	C	LC	SW	P	S		
1	Matematics II - advanced (E)	EE1S21009	2	2					60	5
2	Chemistry (E)	EE1S21010	2		2				60	5
3	Mechanics and materials' strength	EE1S21011	2	1					45	4
4	Geodesy and GIS	EE1S21012	1			2			45	4
5	Foreign language I - English/Polish	EE1S21013		2					30	3
6	Physical Education II	EE1S21060		2					30	0
7	Elective course I	EE1S21014	1			1			30	3
8	Elective course II	EE1S21015	1			1			30	3
9	HES II	EE1S21061	1	1					30	3
Razem:			10	8	2	4			360	30

FULL TIME PROGRAMME			SEMESTER III						(15 weeks)	
Lp.	Module name	Module ID	Hours per week						Hours per semester	ECTS
			L	C	LC	SW	P	S		
1	Soil mechanics and geotechnics	EE1S31016	1		1				30	3
2	Fluid mechanics (E)	EE1S31017	2	1	2				75	5
3	Materials science	EE1S31018	2			2			60	4
4	Technical thermodynamics (E)	EE1S31019	1	1	2				60	4
5	Statistics in Environmental Engineering	EE1S31020	1			1			30	3
6	Sanitary biology (E)	EE1S31021	1		2				45	4
7	Sanitary chemistry	EE1S31022	1		2				45	4
8	Foreign language II - English/Polish	EE1S31023		2					30	2
9	Elective course III	EE1S31024	1						15	1
Total :			10	4	9	3	0		390	30

FULL TIME PROGRAMME			SEMESTER IV						(15 weeks)	
Lp.	Module name	Module ID	Hours per week						Hours per semester	ECTS
			L	C	LC	SW	P	S		
1	Mechanical equipment in Env.Eng.	EE1S41025	1		1		1		45	4
2	Heat exchange (E)	EE1S41026	2	1	2				75	5
3	Water technology (E)	EE1S41027	1	1	2				60	5
4	Basics of cmmunal, hydrotechnic and transport engineering	EE1S41028	2				1		45	4
5	Electrical engineering	EE1S41029	1			1			30	2
6	Water protection and management	EE1S41030	1		2		1		60	4
7	Air protection	EE1S41031	1			1			30	3
8	Foreign language III - English/Polish	EE1S41032		2					30	2
9	Elective course V	EE1S41033				1			15	1
Total :			9	4	7	3	3		390	30

FULL TIME PROGRAMME			SEMESTER V						(15 weeks)	
Lp.	Module name	Module ID	Hours per week						Hours per semester	ECTS
			L	C	LC	SW	P	S		

1	Basics of water supply systems (E)	EE1S51034	1			1	2		60	5
2	Basics of heating systems (E)	EE1S51035	1				2		45	4
3	Facilities for water treatment (E)	EE1S51036	1				2		45	4
4	Wastewater technology (E)	EE1S51037	1		2	1			60	5
5	Land reclamation	EE1S51038	1				1		30	3
6	Ergonomics and occupational safety	EE1S51039	1						15	1
7	Foreign language IV - (E)	EE1S51040		2					30	2
8	Elective course IV	EE1S51041				1			15	1
9	Elective course VI	EE1S51042	1		1				30	2
10	Elective course VIII	EE1S51043	1			1			30	2
11	Elective course IX	EE1S51044	1						15	1
Total :			9	2	3	4	7		375	30

FULL TIME PROGRAMME			SEMESTER VI						(15 weeks)	
Lp.	Module name	Module ID	Hours per week						Hours per semester	ECTS
			L	C	LC	SW	P	S		
1	Basics of sewage disposal (E)	EE1S61045	1			1	2		60	4
2	Sanitary installations in buildings	EE1S61046	2				2		60	4
3	Facilities for wastewater treatment (E)	EE1S61047	1				2		45	4
4	Basics of automation in Env.Eng.	EE1S61048	1		1				30	2
5	Waste management	EE1S61049	1				1		30	2
6	Basis of air-conditioning and ventilation (E)	EE1S61050	1		1		1		45	4
7	Integrated design	EE1S61051				3			45	3
8	Elective course VII	EE1S61052	1			1			30	2
9	Elective course X	EE1S61053	1						15	1
10	Professional training	EE1S61054							0	4
Total :			9	0	2	5	8		360	30

FULL TIME PROGRAMME			SEMESTER VII						(15 weeks)	
Lp.	Module name	Module ID	Hours per week						Hours per semester	ECTS
			L	C	LC	SW	P	S		
1	Bachelor's seminar	EE1S71055						2	30	5
2	Elective course XI	EE1S71056	1			1			30	5
3	Elective course XII	EE1S71057				2			30	5
4	Final project (Engineering design)	EE1S71058							0	15
Total :			1			3		2	90	30

Explanations:		Total teaching hours for Bachelor's program:	2310 hours
(E)	Exam	including lectures:	855 hours
L	Lecture	lectures make up:	37,0 % of total teaching hours
C	Classes	ECTS credits of elevtive courses:	66
LC	Laboratory classes	elective courses make up:	31,4 % of total ECTS credits
SW	Specjalisation workshop		
P	Project		
S	Seminar		

- To complete programme and get BSc degree, student is obliged to:**
- complete professional training - 6 weeks in selected companies during summer holidays after semester VI (approved by Faculty coordinator)
 - pass foreign language test (exam) at B2 level (acc. to Common European Framework of Reference for Languages)

Summary of teaching hours:

semester	Hours per week						Hours	ECTS	hours without HES, PE, FL
	L	C	LC	SW	P	S			
I	9	7	2	5	0	0	345	30	285
II	10	8	2	4	0	0	360	30	270
III	10	4	9	3	0	0	390	30	360
IV	9	4	7	3	3	0	390	30	360
V	9	2	3	4	7	0	375	30	345
VI	9	0	2	5	8	0	360	30	360
VII	1	0	0	3	0	2	90	30	90
Total:	57	25	25	27	18	2	2310	210	2070

