

**CURRICULLUM OF FULL TIME STUDY**

Study programme:

**Construction and Building Systems Engineering**

**Bachelor's degree**

SEMESTER I (15 weeks)										
No	Module name	Module ID	hours per week					hours per semester	ECTS	Remarks
			L	C	LC	SW	P			
1	Foreign language I	CBSE1101A/B		2				30	2	SJO
2	Physical education I	CBSE1106		2				30	-	SWFIS
3	Mathematics I (E)	CBSE1108	2	2				60	5	KGIPIBE
4	Physics I (E)	CBSE1110	2	1				45	4	KBiID
5	Chemistry	CBSE1112	1		2			45	4	KChBiB
6	Engineering geodesy	CBSE1111	1			2		45	3	KGIPIBE
7	Engineering geology & petrography	CBSE1107	1			1		30	3	KGIiMK
8	Theoretical mechanics	CBSE1116	2	2				60	4	KGIiMK
9	Basics of computer science	CBSE1115	1			2		45	4	KGIiMK
10	Intellectual property protection (HES)	CBSE1117	1					15	1	KGIPIBE
<b>TOTAL</b>			11	9	2	5	0	405	30	

SEMESTER II (15 weeks)										
No	Module name	Module ID	hours per week					hours per semester	ECTS	Remarks
			L	C	LC	SW	P			
1	Foreign language II	CBSE2102A/B		2				30	2	SJO
2	Physical education II	CBSE2107		2				30	-	SWFIS
3	Mathematics II (E)	CBSE2109	1	1				30	3	KGIPIBE
4	Descriptive geometry	CBSE2113	1				2	45	4	KGIPIBE
8	Technical drawing & engineering graphics	CBSE2114				1	1	30	3	KGIPIBE
6	Physics II (Basics of building physics)	CBSE2118	1				1	30	2	KGIPIBE
7	Civil engineering materials (E)	CBSE2121	2		2			60	4	KBiID
6	Strength of materials	CBSE2120	2		1		1	60	5	KGIiMK
9	Computational methods	CBSE2122	1			2		45	4	KGIiMK
10	Elective course from the field of architecture	CBSE2123A/B	1			1		30	3	KKBiA
<b>TOTAL</b>			9	5	3	4	5	390	30	

SEMESTER III (15 weeks)										
No	Module name	Module ID	hours per week					hours per semester	ECTS	Remarks
			L	C	LC	SW	P			
1	Foreign language III	CBSE3103A/B		2				30	2	SJO
2	Mathematics III - Statistics	CBSE3124	2	1				45	3	KGIPIBE
3	General construction (E)	CBSE3125	2	1			2	75	6	KBiID
4	Concrete technology	CBSE3126	1		2			45	4	KBiID
5	Road engineering (elective)	CBSE3128A/B	1		0/1		1/0	30	3	KBiID
6	Structural mechanics (E)	CBSE3127	2	2			1	75	6	KGIiMK
7	Building physics (E)	CBSE3136	2		1		1	60	4	KGIPIBE
8	Elective course (HES)	CBSE3130A/B	2					30	2	KGIPIBE
<b>TOTAL</b>			12	6	3/4	0	5/4	390	30	

SEMESTER IV (15 weeks)										
No	Module name	Module ID	hours per week					hours per semester	ECTS	Remarks
			L	C	LC	SW	P			
1	Foreign language IV	CBSE4104A/B		2				30	2	SJO
2	Thermodynamics (E)	CBSE4171	2	1	1			60	5	KCOiW
3	Concrete structures (E)	CBSE4131	2		1		2	75	6	KKBiA
4	Heat transfer	CBSE4172	2	1	1			60	4	KCOiW
5	Construction works (E)	CBSE4133	2				2	60	5	KBiID
6	Fluid mechanics	CBSE4173	2	1	2			75	6	KCOiW
7	Building law and OHS (HES)	CBSE4134	2					30	2	KGIPIBE
<b>TOTAL</b>			12	5	5	0	4	390	30	

SEMESTER V (15 weeks)											
No	Module name	Module ID	hours per week						hours per semester	ECTS	Remarks
			L	C	LC	SW	P	S			
1	Foreign language V	CBSE5105A/B		2					30	2	SJO
2	Sanitary installations (elective)	CBSE5174A/B	2					2	60	5	KCOIW
3	Heating systems (E)	CBSE5175	1		1			2	60	6	KCOIW
4	Steel structures	CBSE5132	2					2	60	5	KKBiA
5	Electrical installations	CBSE5179	1						15	1	WE
6	Water and wastewater technology (E)	CBSE5177	2		2			1	75	6	KTISIŚ
7	Soil mechanics (E)	CBSE5143	2		2				60	5	KGIMK
<b>TOTAL</b>			10	2	5	0	7	0	360	30	

SEMESTER VI (15 weeks)											
No	Module name	Module ID	hours per week						hours per semester	ECTS	Remarks
			L	C	LC	SW	P	S			
1	Basics of sewage disposal systems	CBSE6178	1					2	45	3	KTISIŚ
2	Foundations (E)	CBSE6145	2					2	60	4	KGIMK
3	Integrated project (elective)	CBSE6141A/B						4	60	10	KKBiA, KCOIW
4	Investment process (elective)	CBSE6142A/B	1					2	45	4	KBiID
5	Basics of water supply systems	CBSE6176	1					2	45	3	KTISIŚ
6	Basics of air-conditioning and ventilation (E)	CBSE6180	2		1			2	75	6	KCOIW
<b>TOTAL</b>			7	0	1	0	14	0	330	30	

SEMESTER VII (15 weeks)											
No	Module name	Module ID	hours per week						hours per semester	ECTS	Remarks
			L	C	LC	SW	P	S			
1	Work experience placement (elective)	CBSE7150							-	6	KBiID
2	BSc seminar (elective)	CBSE7147						2	30	2	KKBiA, KCOIW
3	BSc thesis (elective)	CBSE7148							-	15	KKBiA, KCOIW
4	Investment economics and basics of costing (E)	CBSE7144	2			2			60	4	KBiID
5	Waste (elective)	CBSE7181A/B	1			1			30	3	KTISIŚ
<b>TOTAL</b>			3	0	0	3	0	2	120	30	

Łączna liczba godzin zajęć dydaktycznych wynosi:

2385

Łączna liczba wykładów wynosi: 960

Wykłady stanowią: 40,252 % ogólnej liczby zajęć dydaktycznych

Łączna liczba punktów ECTS zajęć przedmiotów obieralnych:

63

przedmioty obieralne stanowią: 30 % ogólnej liczby zajęć dydaktycznych

**Work experience placement (CBSE7150)** - 6 weeks in a selected company during summer holidays after semesters VI; credits are settled by supervisor in semester VII.

Elective course (HES)

1. CBSE3130A Economic integration and European projects
2. CBSE3130B Economic integration and European funds

Elective course from the field of architecture

1. CBSE2123A Principles of architectural design of buildings
2. CBSE2123B Principles of urban-architectural design

Road engineering (elective)

1. CBSE3128A Basics of traffic engineering
2. CBSE3128B Technology of road materials and pavements

Sanitary installation (elective)

1. CBSE5174A DHW systems and gas installations
2. CBSE5174B Gas installations and network

Foreign language (elective)

1. CBSE1101A, CBSE2102A, CBSE3103A, CBSE4104A, CBSE5105A - English
2. CBSE1101B, CBSE2102B, CBSE3103B, CBSE4104B, CBSE5105B - German

Waste (elective)

1. CBSE7181A Waste recycling systems
2. CBSE7181B Waste reuse

Integrated project (elective)

1. CBSE6141A Integrated project of residential building
2. CBSE6141B Integrated project of public building

Investment process (elective)

1. CBSE6142A Management of investment process
2. CBSE6142B Organization of building works

**Responsible Departments**

(concerns the column "Remarks")

Department of Construction and Road Engineering (**KBiD**)  
 Department of Geotechnics and Structural Mechanics (**KGiMK**)  
 Department of Building Structures and Architecture (**KKBiA**)  
 Department of Spatial Economy and Energy - Efficient Construction (**KGPIBE**)  
 Heating, Ventilation, Air Conditioning Department (HVAC Department) (**KCOiW**)  
 Department of Technologies and Systems in Environmental Engineering (**KTiSS**)  
 Department of Chemistry, Biology and Biotechnology (**KCBiB**)

Foreign Languages Centre (**SJO**)  
 Centre for Physical Education and Sport (**SWFiS**)  
 Faculty of Electrical Engineering (**WE**)

**Symbols explanation :**

(E) exam  
 L lecture  
 C classes  
 LC laboratory classes  
 SW specialization workshop  
 P project  
 S seminar