

**Field of study: Civil Engineering**  
degree of Bachelor of Science (BSc)

Semester I							
Module name	hours per semester						ECTS
	L	C	LC	SW	P	S	
Foreign language I - English / Polish* (elective)		30					2
Physical education I / Gymnastics I*		30					1 / 0*
Mathematics I (E)*	30	30					5
Physics (E)*	30	15					4 / 5*
Chemistry (civil) (E)	30		15				4
Engineering geodesy	15			30			3
Engineering geology and petrography	30			15			3
Technical drawing and engineering graphics	15			15	15		4
Basics of computer science / Introduction to IT*	15			30			3/5
Intellectual property protection (HES) / Protection of intellectual property rights (HES)*	15/10						1
Semester II							
Module name	hours per semester						ECTS
	L	C	LC	SW	P	S	
Foreign language II - English / Polish* (elective)		30					2
Mathematics II (E)**	15/30	15/30					4/6
Physical education II / Gymnastics I**		30					1/0
Descriptive geometry	15				30		3
Theoretical mechanics (E)	30	30					4
Basics of building physics	15				15		3
Civil engineering materials (E)	30		30				4
Hydraulics and hydrology	15				15		3
Computational methods	15			30			3
Elective course from the field of architecture: Principles of architectural design of buildings / Principles of urban-architectural design (elective)	30			15			3
Semester III							
Module name	hours per semester						ECTS
	L	C	LC	SW	P	S	
Foreign language III - English / Polish* (elective)		30					2
Mathematics III - Statistics	30	15					3
General building engineering (E)	30	30			30		6
Concrete technology	15		30				4
Basics of road engineering	15				15		2
Strength of materials (E)	30		15		30		6
Building physics (E)	30		15		15		5
Elective course (HES)	30						2
Semester IV							
Module name	hours per semester						ECTS
	L	C	LC	SW	P	S	
Foreign language IV (elective)		30					2
Road building engineering	15		15		15		3
Basics of concrete structures design (E)	30		15		30		6
Basics of steel structures design (E)	30		15		30		6
Construction works (E)	30				30		5
Structural mechanics (E)	30	30			30		7
Building law	15						1

\* joint module that can be implemented in the first semester

\*\* joint module that can be implemented in the second semester

Semester V							
Module name	hours per semester						ECTS
	L	C	LC	SW	P	S	
Foreign language V (elective)		30					2
Elective course from the field of building installations: Sanitary installations in residential buildings / Sanitary installations in industrial buildings (elective)	30						2
Concrete structures (E)	30				30		5
Basics of bridge structures	15				15		3
Masonry and timber structures (E)	30				30		4
Organization of building works	30				30		5
Health and safety in construction & basics of ergonomics / Occupational health, safety and ergonomics*	15/20						1
Soil mechanics (E)	30		30				4
Investment economics and basics of costing (E)	30			30			4
Semester VI							
Module name	hours per semester						ECTS
	L	C	LC	SW	P	S	
Foundations (E)	30				30		4
Road earthworks and drainage	30				30		5
Strengthening of building structures / Technology of building products (elective)	15				15		3
Special concretes and recycling of concrete structures / Basics of thermal diagnostics of building (elective)	30		30/15	0/15	15		6
Computer aided design of building structures				30			4
Elective course (HES) (elective)	30						2
Elective course from the field of entrepreneurship: Entrepreneurship / Career management and basics of entrepreneurship (elective)	30						2
Geotechnical traineeship							2
BSc seminar I (elective)						30	2
Semester VII							
Module name	hours per semester						ECTS
	L	C	LC	SW	P	S	
Basics of road traffic engineering / Composite structures (elective)	15				30		4
Low energy buildings and rational use of energy in buildings / Maintenance and reconstruction of roads (elective)	30/15	0/15			0/30		3
Work experience placement (elective)							6
BSc seminar II (elective)						30	2
BSc thesis (elective)							15

Lectures: 43 %

Elective courses: 30%