

Kielce University of Technology

Faculty of Civil Engineering and Architecture

Field of studies: CIVIL ENGINEERING Level of education: First cycle (Bachelor)

Form of studies: Full - time

						sem	ester I		
No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS
1	B1-1-101	Mathematics 1	1	30	60				7
2	B1-1-102	Chemistry		30			30		4
3	B1-1-103	Building Materials		15			30		3
4	B1-1-104	Geology	1	30			15		3
5	B1-1-105	Descriptive Geometry and Technical Drawing 1		15			15		2
6	B1-1-106	Methods of Computer Aided Design 1					30		2
7	B1-1-107	Spatial Planning		30					2
8	B1-1-108	Freehand Drawing					15		1
9	B1-1-109	Information Technology		15			15		2
10	B1-1-110	English 1					30		2
	B1-1-111	Humanities course 1*							
11	B1-1-111a	Academic Good Manners		15					1
	B1-1-111b	Polish Engineers							
12	B1-1-112	Occupational Safety and Ergonomics		15					1
13	B1-1-113	OHS Training		4					
				199	60	0	180	0	
Total			2	240					30
						439			

 $[\]ensuremath{^*}$ one of the courses to choose from

						sem	ester II		
No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS
1	B1-2-201	Mathematics 2	1	15	30				4
2	B1-2-202	Theoretical Mechanics	1	15	30	30			6
3	B1-2-203	Physics		15	15		15		3
4	B1-2-204	Descriptive Geometry and Technical Drawing 2		15			15		2
5	B1-2-205	Surveying	1	45			30		5
6	B1-2-206	Fundamentals of Transport Engineering		15			15		2
7	B1-2-207	Fundamentals of Architectural Design		15		15			2
8	B1-2-208	Plastics		15			15		2
9	B1-2-209	English 2				30			2
10	B1-2-210 B1-2-210a	Humanities course 2* Selected Issues from the History of European Civilization	-	30					2
	B1-2-210b	History of Construction and Architecture							
	B1-2-210c	History of Inventions							
11	B1-2-211	Fundamentals of Standardization		8					
					75	75	90	0	
Total			3	188					30
						428	40		•

						seme	ster II	I	
No.	Course code	Course name	Exams	Lectures	Classes	Project	Laboratory	Other	ECTS
1	B1-3-301	Mathematics 3		15	15				2
2	B1-3-302	Strength of Materials 1		30	15	30			5
3	B1-3-303	General Construction	1	30		30			4
4	B1-3-304	Actions on Building Structures		15		15			2
	B1-3-305	Transport Engineering *							
5	B1-3-305a	Transport Engineering 1	1	15		30	30		6
	B1-3-305b	Transport Engineering 2							
6	B1-3-306	Concrete Technology		15			30		3
7	B1-3-307	Concrete Works Technology		15		15			2
8	B1-3-308	Hydraulics and Hydrology		15			15		2
	B1-3-309	Technical course 1**							
9	B1-3-309a	Some Aspects of Materials Strength		15					2
	B1-3-309b	Selected Issues of Traffic Engineering		15					-
	B1-3-309c	Underground infrastructure of cities							
10	B1-3-310	English 3					30		2
11	B1-3-311	Physical Education					30		
				165	30	120	135	0	
Total			2	100	285				30
						450			

^{*} one of the courses to choose from

^{**} one of the courses to choose from

						seme	ster IV	I	
No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS
1	B1-4-401	Strength of Materials 2	1	15	15	15	15		5
2	B1-4-402	Structural Mechanics 1		15	15	15			3
3	B1-4-403	Soil Mechanics	1	15	15		30		4
4	B1-4-404	Timber and Masonry Structures		30		30			4
5	B1-4-405	Building Physics		15		15			2
6	B1-4-406	Mathematical Statistics		15	15				2
7	B1-4-407	Technology of Construction Works 1		30		15			3
8	B1-4-408	English 4	1				30		2
9	B1-4-409	Physical Education					30		
	B1-4-410	Humanities course 3*							
10	B1-4-410a	History of Urban Planning		30					2
	B1-4-410b	Culture and Arts							
	B1-4-411	Przedmiot kierunkowy 1**							
11	B1-4-411a	Special Technologies of Road Building		15		15			2
	B1-4-411b	Building Repairs 1							
12	B1-4-412	Construction Law		15					1
				195	60	105	105	0	
Total			3	193	270				30
				465					

 $[\]boldsymbol{*}$ one of the courses to choose from

 $[\]ast\ast$ one of the courses to choose from

						sem	ester V	1	
No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS
	B1-5-501	Computational Methods in Structural Mechanics*							
1	B1-5-501a	Computational Methods in Structural Mechanics 1		15		30			3
	B1-5-501b	Computational Methods in Structural Mechanics 2							
2	B1-5-502	Structural Mechanics 2	1	15	30	15	15		5
3	B1-5-503	Foundations	1	30		15			3
4	B1-5-504	Concrete Structures 1		30		30	15		4
5	B1-5-505	Metal Structures 1		30	15	15	15		4
6	B1-5-506	Technology of Construction Works 2		15		15			2
7	B1-5-507	Fundamentals of Precasting		15		15			2
8	B1-5-508	Building Systems		30		15			3
	B1-5-509	Major course 2**							
9	B1-5-509a	Road Traffic Management		30					2.
	B1-5-509b	Construction Plant and Equipment		30					2
	B1-5-509c	Building Repairs 2							
	B1-5-510	Technical course 2***							
10	B1-5-510a	Structure Materials Behavior under Service Load		15					2
	B1-5-510b	Innovative Solutions for Road Technology							
				225	45	150	45	0	
Total			2 223		240				30
				465				·	

 $[\]boldsymbol{*}$ one of the courses to choose from

 $[\]ast \ast \ast$ one of the courses to choose from

						seme	ster V	I	
No	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS
1	B1-6-601	Concrete Structures 2	1	30		30			4
2	B1-6-602	Metal Structures 2	1	30		15			3
3	B1-6-603	Economics and Cost Estimation		15		30			3
4	B1-6-604	Principles of Bridge Design		15		15			2
	B1-6-605	Przedmiot kierunkowy 3*							
5	B1-6-605a	Road Geotechnics		15		15			2
	B1-6-605b	Building Diagnostics and Maintenance							
6	B1-6-606	Work Placement - 6 weeks							8
		Degree path courses **							8
				105	0	105	0	0	
Tota	I		2	103		10)5		30
			210						

 $[\]ensuremath{^*}$ one of the majors to choose from

 $^{**} degree-path\ related\ courses$

Degree pathway – Highway Building										
						seme	ster V	I		
No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS	
7	B1-6-BD-607	Fundamentals of Road Design		30		15			3	
8	B1-6-BD-608	Road Building Technology		30		30	30		5	
				60	0	45	30	0		
Total	l		0	00		7	5		8	
						135				

 $[\]ast\ast$ one of the majors to choose from

No. Course code Course name East E	Degree pathway – Structural Engineering									
Total Section Record R							seme	ester V	I	
Reference Refe	No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS
Reference Refe	7	B1-6-KB-607	Introduction to Computer-aided Structural Design					30		2
9 B1-6-KB-609 Bridge Infrastructure Management System 15 15 1 2 2 Total	8				15		30			3
Total	9				15					1
Total Degree pathway - Bridge Design and Construction Semester VI Total Degree pathway - Bridge Design and Construction Semester VI Degree pathway - Bridge Design and Construction Semester VI Degree pathway - Bridge Design and Construction Degree pathway - Bridge Design Semester VI Degree pathway - Bridge Design Semester VI Degree pathway - Construction Technology and Project Management Degree pathway - Construction Technology and Project Management Degree pathway - Construction Technology and Project Management Degree pathway - Bridge Diagnosis Techniques Degree pathway - Construction Technology and Project Management Degree pathway - Construction Technology and Project Management Degree pathway - Bridge Diagnosis Techniques Degree pathway - Construction Technology and Project Management Degree pathway - Construction Technology and Project Management Degree pathway - Construction Technology and Project Management Degree pathway - Construction Degree pathway	10		Prestressed Concrete Structures		15		15			2
Degree pathway - Bridge Design and Construction Semester VI						0	45	30	0	
No. Course code Course name Example Semester VI For the property of the property o	Total			0	43		7	5		8
No. Course code Course name Example Semester VI For the property of the property o							120			
No. Course code Course name Example										
Total							seme	ster V	I	
S B1-6-M-608 Fundamentals of Road Design 30 15 30 3 3 3 3 3 3 3 3	No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS
S B1-6-M-608 Fundamentals of Road Design 30 15 30 3 3 3 3 3 3 3 3	7	B1-6-M-607	Fundamentals of Prestressed Structures		15		15			2
Seminorm Seminorm	8				30		15			3
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	9				15			30		3
Total			F9			0	30	30	0	
Degree pathway - Construction Technology and Project Management Semester VI	Total			0	60	0	6	0	Ü	8
Degree pathway - Construction Technology and Project Management Semester VI Seme										
No. Course code Course name Example 2007 Course code Example 2007 Example 2007 Course code Example 2007			Degree pathway – Construction Technology and	Projec	t Mana	igeme				
Total Fig. 2 Fig. 2 Fig. 3 Fig. 4 Fig. 4 Fig. 5 Fig. 5 Fig. 5 Fig. 6 Fi							seme	ster V	I	
8 B1-6-TiOB-608 Technology of Frost-Resistant Concretes 1 15 1 9 B1-6-TiOB-609 Modern Building Materials 15 15 2 10 B1-6-TiOB-610 Durability of Buildings and Structures 15 15 2 Total 60 0 45 15 0 8	No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS
8 B1-6-TiOB-608 Technology of Frost-Resistant Concretes 1 15 1 9 B1-6-TiOB-609 Modern Building Materials 15 15 2 10 B1-6-TiOB-610 Durability of Buildings and Structures 15 15 2 Total 60 0 45 15 0 8	7	B1-6-TiOB-607	Energy Efficiency in Construction		15		30			3
9 B1-6-TiOB-609 Modern Building Materials 15 15 2 10 B1-6-TiOB-610 Durability of Buildings and Structures 15 15 15 2 Total	8									1
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	9		Modern Building Materials					15		2
Total 0 60 0 45 15 0 8	10				15		15			2
Total 0 60 8					60	0	45	15	0	
	Total	Total		0				8		
120							120			

						semester VII								
No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS					
1	B1-7-701	Construction Works Management	1	30		15			3					
2	B1-7-702	Investment Process Management		15		15			2					
3	B1-7-703	Intellectual Property Protection		15					1					
4	B1-7-704	Degree Seminar						30	2					
5	B1-7-705	Undergraduate Thesis							15					
		Przedmioty ścieżki dyplomowania *							7					
				60	0	30	0	30						
Total			1	60					30					
					120									

		Degree pathway - Highway Buil	lding								
				semester VII							
No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS		
6	B1-7-BD-706	Fundamentals of Road Traffic Engineering		30			30		3		
7	B1-7-BD-707	Road Maintenance		30		15	15		4		
				60	0	15	45	0			
Total			0	00		6	0		7		
						120					

						seme	ster VI	Ι	
No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS
6	B1-7-KB-706	Principles of Industrial Construction		30		15			3
7	B1-7-KB-707	Object-Oriented Modelling of Building Structures					30		2
8	B1-7-KB-708	Steel and Concrete Composite Structures		15		15			2
		12		45	0	30	30	0	
Total			0	45		6	0		7
105									
Degree pathway - Bridge Design and Construction									
						seme	ster Vl	Ι	
			_				I		
No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS
6	B1-7-M-706	Maintenance of Bridges		15		30			3
7	B1-7-M-707	Bridge Equipment and Systems		15					1
8	B1-7-M-708	Culverts and Temporary Bridges		15		30			3
				45	0	60	0	0	
Total			0			6	0		7
						105			
		Degree pathway - Construction Technology and	Projec	t Mana	ageme	nt			
					1	seme	ster Vl	Ι	
			н				L		
No.	Course code	Course name	Exams	Lecture	Classes	Project	Laboratory	Other	ECTS
6	B1-7-TiOB-706	Evaluation of Concrete Quality in Structures		15			30		3
7	B1-7-TiOB-707	Technology of Frost-Resistant Concretes 2					15		1
8	B1-7-TiOB-708	Building Economics		30		30			3
				45	0	30	45	0	
Total	Total		0	75			7		
120									