Plan studiów I stopnia - studia stacjonarne

Uczelnia: Politechnika Śląska
Wydział: Budownictwa
Kierunek: Civil Engineering
Moduł (specjalność): **Structural Engineering**
Uwagi: Zatwierdzony przez Radę Wydziału 26.04.2017 r.

lp	nazwa	kod przedmiotu	liczba godzin	s. I kod karty	ECTS	Egzamin	wykład	ćwiczenia	laboratorium	projekt	seminarium	s. II kod karty	ECTS	Egzamin	wykład	ćwiczenia	laboratorium	projekt	seminarium
I	**Przedmioty inne**		**480**																
1	Mathematics	RB-S1-17-I08	150	RB-S1-17-I08-B	6	1	30	30	-	-	-	RB-S1-17-I08-C	7	1	45	45	-	-	-
2	Applied Physics	RB-S1-17-I0A	45	RB-S1-17-I0A-F	5	0	30	15	-	-	-	-	-	-	-	-	-	-	-
3	Applied Chemistry	RB-S1-17-I09	45	RB-S1-17-I09-E	4	0	30	-	15	-	-	-	-	-	-	-	-	-	-
4	Foreign Language (not English)	RB-S1-17-I0B	120	RB-S1-17-I0B-10	2	0	-	-	30	-	-	RB-S1-17-I0B-2B	2	0	-	-	30	-	-
5	History of art	RB-S1-17-I15	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Social Science	RB-S1-17-I0E	15	RB-S1-17-I0E-15	1	0	15	-	-	-	-	-	-	-	-	-	-	-	-
7	Sport	RB-S1-17-I0C	60	RB-S1-17-I0C-12	0	0	-	30	-	-	-	-	-	-	-	-	-	-	-
W	**Przedmioty wspólne**		**1670**																
8	Computer Science and Computer Methods in C.E.	RB-S1-17-W20	30	-	-	-	-	-	-	-	-	RB-S1-17-W20-2B	2	0	-	10	20	-	-
9	Fundamentals of Structural Design	RB-S1-17-W28	22	-	-	-	-	-	-	-	-	RB-S1-17-W28-35	2	0	10	2	-	10	-
10	Drawing and Geometry	RB-S1-17-W21	65	RB-S1-17-W21-2D	6	0	15	15	35	-	-	-	-	-	-	-	-	-	-
11	Mechanics	RB-S1-17-W1F	60	RB-S1-17-W1F-2A	6	1	30	15	-	15	-	-	-	-	-	-	-	-	-
12	Surveying	RB-S1-17-W25	60	-	-	-	-	-	-	-	-	RB-S1-17-W25-31	2	0	15	5	10	-	-
13	Mechanics of Materials	RB-S1-17-W26	68	-	-	-	-	-	-	-	-	RB-S1-17-W26-32	7	1	30	3	-	35	-
14	Buildings and Phisics of Buildings	RB-S1-17-W39	120	-	-	-	-	-	-	-	-	RB-S1-17-W39-84	5	1	30	5	-	25	-
15	Engineering Geology and Soil Mechanics	RB-S1-17-W41	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Building Materials	RB-S1-17-W23	75	-	-	-	-	-	-	-	-	RB-S1-17-W23-2F	3	1	25	5	15	-	-
17	Structural Mechanics	RB-S1-17-W2C	165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Concrete Structures	RB-S1-17-W10	263	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	Steel Structures	RB-S1-17-W13	135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Masonry & Timber Structures	RB-S1-17-W16	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Special Structures	RB-S1-17-W17	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Foundation Engineering	RB-S1-17-W3C	105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Construction Technology, Organisation and Economics	RB-S1-17-W3D	135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Transportation Infrastructure	RB-S1-17-W2E	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Urban Infrastructure and Building Internal System	RB-S1-17-W3E	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Bridges	RB-S1-17-W43	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	BIM Basics	RB-S1-17-W18	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Prawo w budownictwie	RB-S1-17-W1C	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S	**Przedmioty specjalnościowe**		**690**																
29	Urban, Industrial and Transportation Structures	RB-S1-17-S6E	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	Option S1 (one of group) 7)		45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Urban Structures Design	RB-S1-17-S6F	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Industrial Structures Design	RB-S1-17-S70	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bridges Design	RB-S1-17-S71	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Option S2 (two of group) 8)		60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Advanced Structural Design - Selected Topics	RB-S1-17-S49	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Contemporary Geotechnical Issues	RB-S1-17-S4E	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fire Protection in Construction	RB-S1-17-S4F	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Structural Design in Seismic Regions	RB-S1-17-S50	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Maintanence, Repair and Strengthening of Structures	RB-S1-17-S51	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Option W1 (three of group) 9)		90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bridges to Future	RB-S1-17-S73	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Advanced Computer Science Tools in Civil Engineering	RB-S1-17-S74	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Review of Famous World's Structures	RB-S1-17-S54	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Selected Geotechnical Problems in Civil Engineering	RB-S1-17-S77	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vibraton of Building Structures	RB-S1-17-S7B	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Selected Steel and Steel-concrete Composite Structures	RB-S1-17-S7D	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Computer Simulations in Buildings Operation	RB-S1-17-S7C	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Practical placement 4)	RB-S1-17-S72	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Final Project 24)	RB-S1-17-S58	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P	**Podsumowanie**																		
			2840		30	2	350						30	4	375				

lp	nazwa	s. III kod karty	ECTS	Egzamin	wykład	ćwiczenia	laboratorium	projekt	seminarium	s. IV kod karty	ECTS	Egzamin	wykład	ćwiczenia	laboratorium	projekt	seminarium
I	**Przedmioty inne**																
1	Mathematics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Applied Physics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Applied Chemistry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Foreign Language (not English)	RB-S1-17-I0B-2C	2	0	-	-	30	-	-	RB-S1-17-I0B-11	2	1	-	-	30	-	-
5	History of art	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Social Science	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Sport	RB-S1-17-I0C-12	0	0	-	30	-	-	-	-	-	-	-	-	-	-	-
W	**Przedmioty wspólne**																
8	Computer Science and Computer Methods in C.E.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Fundamentals of Structural Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Drawing and Geometry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Mechanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Surveying	RB-S1-17-W25-83	2	0	15	5	10	-	-	-	-	-	-	-	-	-	-
13	Mechanics of Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Buildings and Phisics of Buildings	RB-S1-17-W39-85	5	1	30	5	-	25	-	-	-	-	-	-	-	-	-
15	Engineering Geology and Soil Mechanics	RB-S1-17-W41-A5	3	0	15	-	15	-	-	RB-S1-17-W41-A6	3	1	15	-	15	-	-
16	Building Materials	RB-S1-17-W23-88	3	0	15	5	10	-	-	-	-	-	-	-	-	-	-
17	Structural Mechanics	RB-S1-17-W2C-3D	5	0	25	2	5	28	-	RB-S1-17-W2C-3E	5	1	30	2	10	18	-
18	Concrete Structures	RB-S1-17-W10-3	6	1	30	5	-	15	-	RB-S1-17-W10-5	5	1	30	5	-	30	-
19	Steel Structures	-	-	-	-	-	-	-	-	RB-S1-17-W13-10	5	1	23	2	-	20	-
20	Masonry & Timber Structures	RB-S1-17-W16-15	3	0	15	4	-	10	-	RB-S1-17-W16-18	1	0	8	1	-	7	-
21	Special Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Foundation Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Construction Technology, Organisation and Economics	-	-	-	-	-	-	-	-	RB-S1-17-W3D-8D	5	0	35	5	-	35	-
24	Transportation Infrastructure	-	-	-	-	-	-	-	-	RB-S1-17-W2E-42	4	0	30	-	-	30	-
25	Urban Infrastructure and Building Internal System	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Bridges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	BIM Basics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Prawo w budownictwie	RB-S1-17-W1C-B3	1	0	10	-	-	-	-	-	-	-	-	-	-	-	-
S	**Przedmioty specjalnościowe**																
29	Urban, Industrial and Transportation Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	Option S1 (one of group) 7)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Urban Structures Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Industrial Structures Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bridges Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Option S2 (two of group) 8)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Advanced Structural Design - Selected Topics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Contemporary Geotechnical Issues	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fire Protection in Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Structural Design in Seismic Regions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Maintanence, Repair and Strengthening of Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Option W1 (three of group) 9)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bridges to Future	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Advanced Computer Science Tools in Civil Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Review of Famous World's Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Selected Geotechnical Problems in Civil Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vibraton of Building Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Selected Steel and Steel-concrete Composite Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Computer Simulations in Buildings Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Practical placement 4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Final Project 24)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P	**Podsumowanie**																
			30	2	359						30	5	381				

lp	nazwa	s. V kod karty	ECTS	Egzamin	wykład	ćwiczenia	laboratorium	projekt	seminarium	s. VI kod karty	ECTS	Egzamin	wykład	ćwiczenia	laboratorium	projekt	seminarium
I	**Przedmioty inne**																
1	Mathematics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Applied Physics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Applied Chemistry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Foreign Language (not English)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	History of art	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Social Science	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Sport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W	**Przedmioty wspólne**																
8	Computer Science and Computer Methods in C.E.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Fundamentals of Structural Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Drawing and Geometry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Mechanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Surveying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Mechanics of Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Buildings and Phisics of Buildings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Engineering Geology and Soil Mechanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Building Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Structural Mechanics	RB-S1-17-W2C-90	3	0	10	2	5	13	-	RB-S1-17-W2C-91	3	1	-	1	-	14	-
18	Concrete Structures	RB-S1-17-W10-C	4	0	30	6	-	24	-	RB-S1-17-W10-E	4	1	15	6	-	22	-
19	Steel Structures	RB-S1-17-W13-11	9	1	30	6	-	24	-	RB-S1-17-W13-12	4	1	15	3	-	12	-
20	Masonry & Timber Structures	RB-S1-17-W16-19	1	0	8	2	-	5	-	-	-	-	-	-	-	-	-
21	Special Structures	RB-S1-17-W17-1C	2	0	25	5	4	6	-	RB-S1-17-W17-1D	2	0	8	6	13	5	-
22	Foundation Engineering	RB-S1-17-W3C-8C	4	1	15	4	10	16	-	RB-S1-17-W3C-94	4	1	30	6	-	24	-
23	Construction Technology, Organisation and Economics	RB-S1-17-W3D-8E	3	1	30	5	5	20	-	-	-	-	-	-	-	-	-
24	Transportation Infrastructure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Urban Infrastructure and Building Internal System	RB-S1-17-W3E-8F	2	0	15	-	-	10	-	-	-	-	-	-	-	-	-
26	Bridges	RB-S1-17-W43-A8	2	0	20	-	-	10	-	-	-	-	-	-	-	-	-
27	BIM Basics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Prawo w budownictwie	-	-	-	-	-	-	-	-	RB-S1-17-W1C-22	1	0	5	3	-	-	12
S	**Przedmioty specjalnościowe**																
29	Urban, Industrial and Transportation Structures	-	-	-	-	-	-	-	-	RB-S1-17-S6E-50	8	1	90	-	-	-	-
30	Option S1 (one of group) 7)	-	-	-	-	-	-	-	-	-	4	0	-	-	-	45	-
	Urban Structures Design	-	-	-	-	-	-	-	-	RB-S1-17-S6F-D3	-	-	-	-	-	-	-
	Industrial Structures Design	-	-	-	-	-	-	-	-	RB-S1-17-S70-D4	-	-	-	-	-	-	-
	Bridges Design	-	-	-	-	-	-	-	-	RB-S1-17-S71-D5	-	-	-	-	-	-	-
31	Option S2 (two of group) 8)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Advanced Structural Design - Selected Topics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Contemporary Geotechnical Issues	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Fire Protection in Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Structural Design in Seismic Regions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Maintanence, Repair and Strengthening of Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Option W1 (three of group) 9)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bridges to Future	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Advanced Computer Science Tools in Civil Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Review of Famous World's Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Selected Geotechnical Problems in Civil Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Vibraton of Building Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Selected Steel and Steel-concrete Composite Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Computer Simulations in Buildings Operation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	Practical placement 4)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Final Project 24)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P	**Podsumowanie**																
			30	3	365						30	5	335				

lp	nazwa	s. VII kod karty	ECTS	Egzamin	wykład	ćwiczenia	laboratorium	projekt	seminarium	s. VIII kod karty	ECTS	Egzamin	wykład	ćwiczenia	laboratorium	projekt	seminarium
I	**Przedmioty inne**																
1	Mathematics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Applied Physics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Applied Chemistry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Foreign Language (not English)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	History of art	-	-	-	-	-	-	-	-	RB-S1-17-I15-2F	4	0	30	-	-	-	15
6	Social Science	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Sport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W	**Przedmioty wspólne**																
8	Computer Science and Computer Methods in C.E.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Fundamentals of Structural Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Drawing and Geometry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Mechanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Surveying	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Mechanics of Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Buildings and Phisics of Buildings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Engineering Geology and Soil Mechanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Building Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Structural Mechanics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Concrete Structures	-	-	-	-	-	-	-	-	RB-S1-17-W10-F	3	0	15	5	25	-	-
19	Steel Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Masonry & Timber Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Special Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Foundation Engineering	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	Construction Technology, Organisation and Economics	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Transportation Infrastructure	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Urban Infrastructure and Building Internal System	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Bridges	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	BIM Basics	-	-	-	-	-	-	-	-	RB-S1-17-W18-1E	1	0	15	-	15	-	-
28	Prawo w budownictwie	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S	**Przedmioty specjalnościowe**																
29	Urban, Industrial and Transportation Structures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	Option S1 (one of group) 7)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Urban Structures Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Industrial Structures Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bridges Design	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	Option S2 (two of group) 8)	-	-	-	-	-	-	-	-	-	4	0	40	-	-	-	20
	Advanced Structural Design - Selected Topics	-	-	-	-	-	-	-	-	RB-S1-17-S49-66	-	-	-	-	-	-	-
	Contemporary Geotechnical Issues	-	-	-	-	-	-	-	-	RB-S1-17-S4E-6B	-	-	-	-	-	-	-
	Fire Protection in Construction	-	-	-	-	-	-	-	-	RB-S1-17-S4F-6C	-	-	-	-	-	-	-
	Structural Design in Seismic Regions	-	-	-	-	-	-	-	-	RB-S1-17-S50-6E	-	-	-	-	-	-	-
	Maintanence, Repair and Strengthening of Structures	-	-	-	-	-	-	-	-	RB-S1-17-S51-72	-	-	-	-	-	-	-
32	Option W1 (three of group) 9)	-	-	-	-	-	-	-	-	-	6	0	90	-	-	-	-
	Bridges to Future	-	-	-	-	-	-	-	-	RB-S1-17-S73-D7	-	-	-	-	-	-	-
	Advanced Computer Science Tools in Civil Engineering	-	-	-	-	-	-	-	-	RB-S1-17-S74-D8	-	-	-	-	-	-	-
	Review of Famous World's Structures	-	-	-	-	-	-	-	-	RB-S1-17-S54-77	-	-	-	-	-	-	-
	Selected Geotechnical Problems in Civil Engineering	-	-	-	-	-	-	-	-	RB-S1-17-S77-DB	-	-	-	-	-	-	-
	Vibraton of Building Structures	-	-	-	-	-	-	-	-	RB-S1-17-S7B-E0	-	-	-	-	-	-	-
	Selected Steel and Steel-concrete Composite Structures	-	-	-	-	-	-	-	-	RB-S1-17-S7D-E2	-	-	-	-	-	-	-
	Computer Simulations in Buildings Operation	-	-	-	-	-	-	-	-	RB-S1-17-S7C-E1	-	-	-	-	-	-	-
33	Practical placement 4)	RB-S1-17-S72-D6	30	0	-	360	-	-	-	-	-	-	-	-	-	-	-
34	Final Project 24)	-	-	-	-	-	-	-	-	RB-S1-17-S58-80	12	0	-	-	-	45	-
P	**Podsumowanie**																
			30	0	360						30	0	315				

Podsumowanie

			s. I	s. II	s. III	s. IV	s. V	s. VI	s. VII	s. VIII
Liczba ECTS - przedmioty inne	14,6%	35	18	9	2	2	0	0	0	4
Liczba ECTS - przedmioty wspólne	58,8%	141	12	21	28	28	30	18	0	4
Liczba ECTS - przedmioty specjalnościowe	26,7%	64	0	0	0	0	0	12	30	22
Suma punktów ECTS		**240**								
Liczba godzin - przedmioty inne	16,9%	480								
Liczba godzin - przedmioty wspólne	58,8%	1670								
Liczba godzin - przedmioty specjalnościowe	24,3%	690								
Suma godzin dydaktycznych		**2840**								
Suma egzaminów		**21**								

Załącznik S1.4	
Plan studiów I stopnia - studia stacjonarne (j. pol.)	
Kierunek:	**Budownictwo**
Moduł:	**Structural Engineering**

Efekty kształcenia

Uczelnia: Politechnika Śląska
Wydział: Budownictwa
Kierunek: Civil Engineering

Moduł (specjalność): **Structural Engineering**

	K1A_W01	K1A_W02	K1A_W03	K1A_W04	K1A_W05	K1A_W06	K1A_W07	K1A_W08	K1A_W09	K1A_W10	K1A_W11	K1A_W12	K1A_W13	K1A_W14	K1A_W15	K1A_W16	K1A_W17	K1A_W18	K1A_W19	K1A_W20	K1A_W21
Przedmioty I+W	✓ 4	✓ 5	✓ 3	✓ 5	✓ 9	✓ 12	✓ 6	✓ 3	✓ 4	✓ 3	✓ 1	✓ 3	✓ 2	✓ 7	✓ 1	✓ 2	✓ 5	✓ 1	✓ 1	✓ 2	✓ 2
Przedmioty S	✓ 1	✗ 0	✗ 0	✓ 5	✓ 5	✓ 11	✓ 8	✓ 3	✓ 8	✗ 0	✓ 1	✗ 0	✗ 0	✓ 3	✓ 1	✓ 1	✓ 4	✓ 1	✓ 1	✗ 0	✓ 1
Razem	✓ 5	✓ 5	✓ 3	✓ 10	✓ 14	✓ 23	✓ 14	✓ 6	✓ 12	✓ 3	✓ 2	✓ 3	✓ 2	✓ 10	✓ 2	✓ 3	✓ 9	✓ 2	✓ 2	✓ 2	✓ 3
Przedmioty inne																					
Mathematics	+++																				
Applied Physics																		+++			
Applied Chemistry												++		++					+++		
Foreign Language (not English)																					+++
History of art														+			+				
Social Science																				+	+
Sport																				++	
Przedmioty wspólne																					
Computer Science and Computer Methods in C.E.					+++																
Fundamentals of Structural Design						+	+														
Drawing and Geometry	++	+++	++																		
Mechanics	++			+++	+++																
Surveying		++	+++																		
Mechanics of Materials	+			+++	++																
Buildings and Phisics of Buildings		++				++		+	++				+++								
Engineering Geology and Soil Mechanics				++		++					+++						+				
Building Materials												+++		+++			++				
Structural Mechanics				+++	+++	+		++													
Concrete Structures					++	+++	++														
Steel Structures					+++	+++	++														
Masonry & Timber Structures					+	+++	+++														
Special Structures					+	++	+++														
Foundation Engineering						+++		++													
Construction Technology, Organisation and Economics														+	+++	++	+++				
Transportation Infrastructure		++				++				+++			++								
Urban Infrastructure and Building Internal System			++						++	++				++							
Bridges				++	++	+	+		+	+		++		+			+				
BIM Basics		++							++					+							
Prawo w budownictwie						++										++					
Przedmioty specjalnościowe																					
Urban, Industrial and Transportation Structures						+++	++		++								++				
Option S1 (one of group) 7)																					
Urban Structures Design						++			++								++				
Industrial Structures Design						+++	++														
Bridges Design						++			++								++				
Option S2 (two of group) 8)																					
Advanced Structural Design - Selected Topics						++	++		++												
Contemporary Geotechnical Issues				++				+++						++							
Fire Protection in Construction						+++	++												++		
Structural Design in Seismic Regions				++	++	+	++														
Maintanence, Repair and Strengthening of Structures							+		+												
Option W1 (three of group) 9)																					
Bridges to Future				++		++			+++												
Advanced Computer Science Tools in Civil Engineering	+				+																
Review of Famous World's Structures						+++	++		++								++				
Selected Geotechnical Problems in Civil Engineering				++				+++			+++			++							
Vibraton of Building Structures					++													++			
Selected Steel and Steel-concrete Composite Structures					+	++	++		+												
Computer Simulations in Buildings Operation					+++	++															
Practical placement 4)														+++	++	++					
Final Project 24)				+++				+++													+++

	K1A_U01	K1A_U02	K1A_U03	K1A_U04	K1A_U05	K1A_U06	K1A_U07	K1A_U08	K1A_U09	K1A_U10	K1A_U11	K1A_U12	K1A_U13	K1A_U14	K1A_U15	K1A_U16	K1A_U17	K1A_U18	K1A_U19	K1A_U20	K1A_U21	K1A_U22	K1A_U23
Przedmioty I+W	✓ 3	✓ 7	✓ 6	✓ 5	✓ 7	✓ 2	✓ 8	✓ 3	✓ 3	✓ 2	✓ 1	✓ 2	✓ 4	✓ 4	✓ 2	✓ 2	✓ 7	✓ 2	✓ 3	✓ 4	✓ 1	✓ 2	✓ 1
Przedmioty S	✓ 7	✓ 8	✓ 3	✗ 0	✓ 5	✓ 1	✗ 0	✗ 0	✓ 1	✗ 0	✓ 1	✗ 0	✗ 0	✓ 1	✗ 0	✓ 3	✓ 1	✓ 2	✗ 0	✓ 2	✓ 2	✗ 0	✗ 0
Razem	✓ 10	✓ 15	✓ 9	✓ 5	✓ 12	✓ 3	✓ 8	✓ 3	✓ 4	✓ 2	✓ 2	✓ 2	✓ 4	✓ 5	✓ 2	✓ 5	✓ 8	✓ 4	✓ 3	✓ 6	✓ 3	✓ 2	✓ 1
Przedmioty inne																							
Mathematics						+++																	
Applied Physics										+++													
Applied Chemistry													+++									++	
Foreign Language (not English)																		+++					
History of art	++																++						
Social Science																		+					
Sport																							+++
Przedmioty wspólne																							
Computer Science and Computer Methods in C.E.					++												+++						
Fundamentals of Structural Design		+++																					
Drawing and Geometry	+++						++							+++			++						
Mechanics				+++																			
Surveying														+++			+++		+++		+		
Mechanics of Materials				++	++		++																
Buildings and Phisics of Buildings							++	+	++			+++		++					++	++			
Engineering Geology and Soil Mechanics													+++			+							
Building Materials					+								+++							++		+++	
Structural Mechanics			+++	+++	++	++				+++	+++												
Concrete Structures		++	++	+			+++																
Steel Structures		++	++	++			+++																
Masonry & Timber Structures		+++	++				+++																
Special Structures		++	+++				+++																
Foundation Engineering									++				+++										
Construction Technology, Organisation and Economics															+++	++				+++			
Transportation Infrastructure					++		++		++			++			+++								
Urban Infrastructure and Building Internal System		+++			+++			++						+++			++			++			
Bridges	+++	+						+++									+++						
BIM Basics			+++		+++																		
Prawo w budownictwie																	++		+++				
Przedmioty specjalnościowe																							
Urban, Industrial and Transportation Structures	++	++																					
Option S1 (one of group) 7)																							
Urban Structures Design	++	++																					
Industrial Structures Design	++																						
Bridges Design	++	++																					
Option S2 (two of group) 8)																							
Advanced Structural Design - Selected Topics			+++		+																		
Contemporary Geotechnical Issues					+++																		
Fire Protection in Construction																++				++			
Structural Design in Seismic Regions		++	++																	+	++		
Maintanence, Repair and Strengthening of Structures											+					++							
Option W1 (three of group) 9)																							
Bridges to Future	+++	+++																					
Advanced Computer Science Tools in Civil Engineering					+	+																	
Review of Famous World's Structures	++	++																					
Selected Geotechnical Problems in Civil Engineering					+++																		
Vibraton of Building Structures																							
Selected Steel and Steel-concrete Composite Structures		++	++																				
Computer Simulations in Buildings Operation					+++												++						
Practical placement 4)	+													+++		+++		+++			+++		
Final Project 24)		+++							+++									+++					

	K1A_K01	K1A_K02	K1A_K03	K1A_K04	K1A_K05	K1A_K06	K1A_K07	K1A_K08	K1A_K09	K1A_K10	K1A_K11	K1A_K12
Przedmioty I+W	✓ 14	✓ 16	✓ 6	✓ 1	✓ 1	✓ 7	✓ 5	✓ 3	✓ 4	✓ 3	✓ 1	✓ 1
Przedmioty S	✓ 2	✓ 5	✓ 4	✗ 0	✓ 1	✓ 10	✓ 5	✓ 3	✓ 1	✓ 1	✗ 0	✓ 2
Razem	✓ 16	✓ 21	✓ 10	✓ 1	✓ 2	✓ 17	✓ 10	✓ 6	✓ 5	✓ 4	✓ 1	✓ 3
Przedmioty inne												
Mathematics						+						
Applied Physics						+						
Applied Chemistry		++										
Foreign Language (not English)												+++
History of art								+++				
Social Science								++		++		
Sport				+++							+++	
Przedmioty wspólne												
Computer Science and Computer Methods in C.E.			+					+		++		
Fundamentals of Structural Design	+											
Drawing and Geometry	+++		++									
Mechanics	+++	++										
Surveying		++					++					
Mechanics of Materials		++										
Buildings and Phisics of Buildings	++	++				++	++					
Engineering Geology and Soil Mechanics	+++	+++										
Building Materials		++	++									
Structural Mechanics	+++	+++										
Concrete Structures		+++							++			
Steel Structures	+	++							++			
Masonry & Timber Structures	+	+++				+			++			
Special Structures		+++					++		++			
Foundation Engineering	+++	++										
Construction Technology, Organisation and Economics	+				++							
Transportation Infrastructure	++	++				++	++					
Urban Infrastructure and Building Internal System	++	+	++			+						
Bridges	+		+			++	++					
BIM Basics	+++		+++									
Prawo w budownictwie		++								++		
Przedmioty specjalnościowe												
Urban, Industrial and Transportation Structures						++	++	+				
Option S1 (one of group) 7)												
Urban Structures Design						++						
Industrial Structures Design							++	+				
Bridges Design						++						
Option S2 (two of group) 8)												
Advanced Structural Design - Selected Topics												
Contemporary Geotechnical Issues						+++						
Fire Protection in Construction		+	+++				++					
Structural Design in Seismic Regions												
Maintanence, Repair and Strengthening of Structures						+						
Option W1 (three of group) 9)												
Bridges to Future	++					++						
Advanced Computer Science Tools in Civil Engineering			+			+						
Review of Famous World's Structures						++	++	+				
Selected Geotechnical Problems in Civil Engineering						+++						
Vibraton of Building Structures												++
Selected Steel and Steel-concrete Composite Structures		++										
Computer Simulations in Buildings Operation		+++	++									
Practical placement 4)	+++	+++			+++							
Final Project 24)		+++	+++			+++	+++		+++	+++		++

Załącznik E.4.2	
Plan studiów I stopnia - studia stacjonarne (j. pol.)	
Kierunek:	**Budownictwo**
Moduł:	**Structural Engineering**