

PLAN OF STUDIES

FACULTY: Civil Engineering

MAIN FIELD OF STUDY: Civil Engineering

EDUCATION LEVEL: ~~first-level (licencjat/inżynier) studies~~ / second-level studies / ~~magister uniform studies~~*

FORM OF STUDIES: full-time studies / ~~part-time studies~~*

PROFILE: general academic / ~~practical~~*

SPECIALIZATION: Civil Engineering

LANGUAGE OF STUDY: English

In effect since 1.10.2020 r.

1. Set of obligatory and optional courses and groups of courses in semesteral arrangement

Att. no. 4 to ZW 16/2020

Definitions:

¹BU – number of ECTS points assigned to hours of classes requiring direct contact of teachers with students

²Traditional – T, distance – Z

³Exam – E, crediting with grade – Z. For the group of courses – after the letter E or Z - enter in brackets the final course form (lec, cl, lab, pr, sem)

⁴University-wide course /group of courses – O

⁵Course / group of courses Concerning scientific activities– DN

⁶Practical course / group of courses – P. For the group of courses (GK) - in brackets enter the number of ECTS points assigned to practical courses

⁷KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

CNPS – total student's work; ZZU – organized courses; 1 ECTS = 30 hrs NPS

Blocks for optional specialization: Civil Engineering CEB [9]

Specialization: Civil Engineering (language of studies: English)

Semester 1

Obligatory courses

number of ECTS points 28

No.	Course / group of courses code	Name of course / group of courses (denote group of courses with symbol GK)	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form ² of course / group of courses	Way ³ of crediting	Course/group of courses					
			lec	cl	lab	pr	sem		ZZU	CNPS	total	UN ⁵ classes	BU ¹ classes			university-wide ⁴	Concerning scientific	practical P ⁶	kind ⁷	type	
1	FZP007163	Physics of modern materials. Fizyka nowoczesnych materiałów	1					K2_W01, K2_W02, K2_W04, K2_U03, K2_U08, K2_K01, K2_K02, K2_K06	15	30	1	1	0.5	T	Z	O	1			PD	Ob.
2	CEB008061	Selected topics in mathematics. Matematyka - wybrane zagadnienia	1					K2_W01, K2_U08, K2_K01, K2_K02, K2_K03, K2_K06	15	30	1	1	0.6	T	E		1			PD	Ob.
				1					15	30	1	1	0.6	T	Z		1	0.6	PD	Ob.	
3	CEB007361	Selected topics in geo-engineering - foundation. Fundamentowanie - wybrane zagadnienia	1					K2_W01, K2_W06, K2_W08, K2S_CEB_W16, K2S_CEB_W19, K2S_CEB_W20, K2_U04, K2_U05, K2_U09, K2_U10, K2_U16, K2_U17, K2S_CEB_U20, K2S_CEB_U22, K2S_CEB_U23, K2_K03, K2_K06	15	30	1	1	0.5	T	Z		1			K	Ob.
						2			30	30	1	1	1.1	T	Z		1	1.3	K	Ob.	
4	CEB008361	Theory of elasticity and plasticity. Teoria sprężystości i plastyczności	2					K2_W01, K2_W02, K2_W04, K2S_CEB_W16, K2_U02, K2_U04, K2_U08, K2S_CEB_U19, K2S_CEB_U23, K2_K01	30	30	1	1	1.1	T	Z		1			K	Ob.
				1					15	30	1	1	0.6	T	Z		1	0.4	K	Ob.	
5	CEB008461	Selected topics in structural mechanics. Statyka budowli - wybrane zagadnienia	2					K2_W03, K2_W04, K2_W05, K2S_CEB_W16, K2_U06, K2_U07, K2_U09, K2S_CEB_U19, K2_K01, K2_K03	30	60	2	2	1.2	T	E		2			K	Ob.
				1					15	30	1	1	0.6	T	Z		1	0.7	K	Ob.	
					1				15	30	1	1	0.6	T	Z		1	0.7	K	Ob.	
6	CEB007561	Concrete structures - objects. Konstrukcje betonowe - obiekty	2					K2_W04, K2_W06, K2_W07, K2_W08, K2S_CEB_W16, K2S_CEB_W18, K2_U09, K2_U11, K2_U12, K2S_CEB_U18, K2S_CEB_U19, K2_K01, K2_K02, K2_K03	30	60	2	2	1.1	T	E		2			S	Ob.
						2			30	60	2	2	1.1	T	Z		2	2.0	S	Ob.	
7	CEB007661	Metal structures - objects. Konstrukcje metalowe - obiekty	2					K2_W01, K2_W02, K2_W04, K2_W05, K2_W06, K2_W07, K2_W09, K2S_CEB_W16, K2_U01, K2_U02, K2_U04, K2_U05, K2_U06, K2_U07, K2_U08, K2_U09, K2_U11, K2_U12, K2S_CEB_U18, K2S_CEB_U19, K2_K01, K2_K02, K2_K03	30	60	2	2	1.1	T	E		2			S	Ob.
						2			30	60	2	2	1.1	T	Z		2	2.0	S	Ob.	

8	CEB007761	Advanced computer aided engineering. Zaawansowane komputerowe spomaganie projektowania			2			K2_W03, K2_W04, K2_W05, K2_W06, K2_W07, K2_W09, K2S_CEB_W16, K2S_CEB_W22, K2_U04, K2_U05, K2_U06, K2_U07, K2_U08, K2_U09, K2_U11, K2_U12, K2S_CEB_U18, K2S_CEB_U19, K2S_CEB_U23, K2_K01, K2_K02, K2_K03	30	60	2	2	1.2	T	Z		2	2.0	S	Ob.
9	CEB007861	Hydraulics in civil engineering. Hydraulika w budownictwie	1				K2_W01, K2_W02, K2_W06, K2_W14, K2S_CEB_W17, K2_U01, K2_U02, K2_U03, K2_U06, K2_U17, K2_U19, K2_U20, K2S_CEB_U20, K2_K01, K2_K02, K2_K03	15	30	1	1	0.6	T	Z		1		S	Ob.	
					1			15	30	1	1	0.6	T	Z		1	1.0	S	Ob.	
10	CEB007961	BIM in Civil Engineering. BIM w inżynierii lądowej			4		K2_W03, K2_W06, K2S_BIM_W16, K2S_BIM_W21, K2_W14, K2_W15, K2_W06,	60	120	4	4	3.3	T	Z		4	4	S	Ob.	
		List from optional block A																		
1	JZL100709BK	Foreign language - level B2+. Język obcy - poziom B2+		1			K2_U01, K2_U02, K2_K01, K2_K06	15	30	1	0	0.5	T	Z	O	0	1.0	KO	W	
Total			12	4	7	7		450	840	28	27	18				27	15.7			

Kursy wybieralne

number of ECTS points 2

No.	Course / group of courses code	Name of course / group of courses (denote group of courses with symbol GK)	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form ² of course / group of courses	Way ³ of crediting	Course/group of courses				
			lec	cl	lab	pr	sem		ZZU	CNPS	total	UN ⁵ classes	BU ¹ classes			university-wide ⁴	Concerning scientific	practical P ⁶	kind ⁷	type
1		List from optional block B					1		15	60	2	0	0.6	T	Z	O	0	1.5	KO	W
	FLH020361	Ethics in engineering. Etyka inzynierska						K2_W13, K2_W14, K2_W15, K2_U01, K2_K01, K2_K02, K2_K04, K2_K06												
	FLH020461	Ethics in business. Etyka w biznesie																		
		Total	0	0	0	0	1		15	60	2	0	0.6				0	1.5		

Total in semester:

Total number of hours					Total number of hours ZZU	Total number of hours CNPS	Total number of ECTS points	Total number of ECTS points DN ⁵	number of ECTS points BU ¹	number of ECTS points P
lec	cl	lab	pr	sem						
12	4	7	7	1	465	900	30	27	18.6	17.2

Semester 2

Obligatory courses

number of ECTS points 30

No.	Course / group of courses code	Name of course / group of courses (denote group of courses with symbol GK)	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form ² of course / group of courses	Way ³ of crediting	Course/group of courses				
			lec	cl	lab	pr	sem		ZZU	CNPS	total	UN ⁵ classes	BU ¹ classes			university-wide ⁴	Concerning scientific	practical P ⁶	kind ⁷	type
1	CEB007962	Dynamics. Dynamika budowli	1					K2_W01, K2_W03, K2_W04, K2_W05, K2S_CEB_W22, K2_U03, K2_U05, K2_U06, K2_U07, K2_U09, K2_U16, K2S_CEB_U19, K2_K01, K2_K02	15	60	2	2	0.7	T	E		2		K	Ob.
					1				15	30	1	1	0.6	T	Z		1	1.0	K	Ob.
2	CEB005362	Computational mechanics. Metody komputerowe	1					K2_W01, K2_W02, K2_W03, K2_W04, K2_W05, K2_W09, K2S_CEB_W16, K2_U02, K2_U06, K2_U08, K2_U09, K2_U16, K2S_CEB_U19, K2_K01, K2_K04	15	60	2	2	0.5	T	Z		2		K	Ob.
					2				30	60	2	2	1.1	T	Z		2	2.0	K	Ob.
3	CEB008662	Construction techniques and processes. Technologia robót budowlanych	1					K2_W10, K2_W11, K2_W13, K2_W14, K2S_CEB_W21, K2_U01, K2_U13, K2_U14, K2_U16, K2S_CEB_U23, K2_K01, K2_K02, K2_K04	15	30	1	1	0.7	T	E		1		S	Ob.
						2			30	60	2	2	1.1	T	Z		2	2.0	S	Ob.
4	CEB004462	Apartment building. Budownictwo mieszkaniowe	2					K2_W04, K2_W06, K2_W07, K2_W14, K2S_CEB_W16, K2_U01, K2_U13, K2_U14, K2_U16, K2S_CEB_U23, K2_K01, K2_K02, K2_K04	30	60	2	2	1.1	T	Z		2		S	Ob.

					1		K2S_CEB_W16, K2S_CEB_W18, K2_U02, K2_U04, K2_U05, K2_U06, K2S_CEB_U18, K2_U11, K2_K01, K2_K03, K2_K05, K2_K06	15	30	1	1	0.6	T	Z		1	1.0	S	Ob.
5	CEB003962	Underground structures - urban infrastructure. Budownictwo podziemne - infrastruktura miejska	2				K2_W05, K2_W06, K2_W11, K2_W13, K2S_CEB_W20, K2S_CEB_W21, K2_U04, K2_U05, K2_U06, K2_U07, K2_U09, K2_U12, K2S_CEB_U19, K2S_CEB_U22, K2_K01, K2_K03	30	60	2	2	1.2	T	E		2		S	Ob.
					2			30	60	2	2	1.2	T	Z		2	2.0	S	Ob.
6	CEB004062	Railways. Koleje	2				K2_W06, K2_W07, K2S_CEB_W19, K2S_CEB_W21, K2_U04, K2_U05, K2_U12, K2S_CEB_W19, K2S_CEB_W21, K2_K01, K2_K03, K2_K06	30	30	1	1	1.1	T	Z		1		S	Ob.
					2			30	60	2	2	1.1	T	Z		2	1.7	S	Ob.

7	CEB004162	Roads, streets and airports. Drogi, ulice i lotniska	2						K2_W01, K2_W06, K2_W09, K2S_CEB_W19, K2S_CEB_W20, K2_U01, K2_U08, K2_U12, K2_U16, K2S_CEB_U22, K2_K01, K2_K02, K2_K03	30	60	2	2	1.3	T	Z		2		S	Ob.
					2					30	60	2	2	1.3	T	Z		2	2.0	S	Ob.
8	CEB008062	Bridges. Mosty	2						K2_W03, K2_W04, K2_W05, K2_W06, K2_W07, K2_W10, K2S_CEB_W19, K2S_CEB_W21, K2_U02, K2_U04, K2_U05, K2_U07, K2_U08, K2_U11, K2_U12, K2S_CEB_U19, K2S_CEB_U22, K2_K01, K2_K02, K2_K03	30	60	2	2	1.3	T	E		2		S	Ob.
					2					30	60	2	2	1.3	T	Z		2	2.0	S	Ob.
		List from optional block C																			
9	JZL100710BK	Foreign language - level A1/A2. Język obcy - poziom A1/A (dla studentów anglojęzycznych przewiduje się język polski)		3					K2_U01, K2_U02, K2_K01, K2_K06	45	60	2	0	1.5	T	Z	O	0	2.0	KO	W
10		List from optional block W		0						0	0	0	0	0.0	T	Z	O	0	0.0	KO	W
	WFW01000BK	Zajęcia sportowe - wybór sekcji. Optional sports							K2_K07												
		Total	13	3	3	11	0			450	900	30	28	17.7				28	15.7		

Total in semester:

Total number of hours					Total number of hours ZZU	Total number of hours CNPS	Total number of ECTS points	Total number of ECTS points DN ⁵	number of ECTS points BU ¹	number of ECTS points P
lec	cl	lab	pr	sem						
13	3	3	11	0	450	900	30	28	17.7	15.7

Total accumulated:

Total number of hours					Total number of hours ZZU	Total number of hours CNPS	Total number of ECTS points	Total number of ECTS points DN ⁵	number of ECTS points BU ¹	number of ECTS points P
lec	cl	lab	pr	sem						
25	7	10	18	1	915	1800	60	55	36.3	32.9

Semester 3

Obligatory courses

number of ECTS points **24**

No.	Course / group of courses code	Name of course / group of courses (denote group of courses with symbol GK)	Weekly number of hours					Learning effect symbol	Number of hours		Number of ECTS points			Form ² of course / group of courses	Way ³ of crediting	Course/group of courses				
			lec	cl	lab	pr	sem		ZZU	CNPS	total	UN ⁵ classes	BU ¹ classes			university-wide ⁴	Concerning scientific	practical P ⁶	kind ⁷	type

	CEB006863	Effective properties of composites - introduction to micro-mechanics. Właściwości efektywne kompozytów - wprowadzenie do mikromodelowania							K2_W02, K2_W05, K2S_CEB_W22, K2_U16, K2S_CEB_U23, K2_K01, K2_K03												
2		List from optional block 2	1							15	30	1	1	0.6	T	Z		1		S	W
						1				15	60	2	2	0.6	T	Z		2	2.0	S	W
	CEB006563	Pre-stressed concrete structures. Betonowe konstrukcje sprężone							K2_W06, K2_W07, K2_W09, K2_W10, K2S_CEB_W16, K2S_CEB_W22, K2_U01, K2_U04, K2_U05, K2_U11, K2_U12, K2_U17, K2S_CEB_U18, K2S_CEB_U23, K2_K01, K2_K03												
	CEB006663	Timber structures. Konstrukcje drewniane							K2_W05, K2_W06, K2_W10, K2S_CEB_W22, K2_U04, K2_U05, K2_U07, K2_U12, K2S_CEB_U23, K2_K01, K2_K02												
	CEB006763	Conservation and strengthening of monumental heritage structures. Konserwacja i wzmacnianie konstrukcji zabytkowych							K2_W02, K2_W06, K2_W09, K2_W10, K2S_CEB_W22, K2_U04, K2_U05, K2_U12, K2S_CEB_U21, K2S_CEB_U23, K2_K01, K2_K02, K2_K06												
	CEB006963	Methods of applied statistics (geo-statistics). Metody statystyki stosowanej (geostatystyka)							K2_W01, K2_W09, K2S_CEB_W22, K2_U01, K2_U03, K2_U08, K2_U16, K2_U17, K2S_CEB_U19, K2S_CEB_U23, K2_K01, K2_K02, K2_K03, K2_K06												
	CEB008263	Sustainable housing. Budownictwo zrównoważone							K2_W06, K2_W13, K2S_CEB_W22, K2_U01, K2_U04, K2_U08, K2S_CEB_U23, K2_K01, K2_K02, K2_K03												
		Total	2	0	1	1	0			60	180	6	6	2.4				6	4.0		

Total in semester:

Total number of hours					Total number of hours ZZU	Total number of hours CNPS	Total number of ECTS points	Total number of ECTS points DN ⁵	number of ECTS points BU ¹
lec	cl	lab	pr	sem					
3	1	1	1	2	120	900	30	27	11.9

number of ECTS points P
26.2

Total accumulated:

Total number of hours					Total number of hours ZZU	Total number of hours CNPS	Total number of ECTS points	Total number of ECTS points DN ⁵	number of ECTS points BU ¹
lec	cl	lab	pr	sem					
28	8	11	19	3	1035	2700	90	82	48.2

number of ECTS points P
59.1

Total number of ZZU hours: 1035
Hours - lectures: 40.6%
Hours - other courses: 59.4%
ECTS - BK: 53.6%
ECTS - P: 65.7%

2. Set of examinations in semestral arrangement

No	Course code	Names of courses ending with examination	Semester
Civil Engineering			
1	CEB008061	Selected topics in mathematics. Matematyka - wybrane zagadnienia	1
2	CEB008461	Selected topics in structural mechanics. Statyka budowli - wybrane zagadnienia	1
3	CEB007561	Concrete structures - objects. Konstrukcje betonowe - obiekty	1
4	CEB007661	Metal structures - objects. Konstrukcje metalowe - obiekty	1
5	CEB007962	Dynamics. Dynamika budowli	2
6	CEB008662	Construction techniques and processes. Technologia robót budowlanych	2
7	CEB003962	Underground structures - urban infrastructure. Budownictwo podziemne - infrastruktura miejska	2
8	CEB008062	Bridges. Mosty	2

3. Numbers of allowable deficit of ECTS points after particular semesters

Semester	Allowable deficit of ECTS points after semester	Total number of points required for registration for the next semester
1	15	15
2	13	47

In effect since 1.10.2020 r.

Opinion of the faculty student government legislative body:

Date Name and surname, signature of the student representative

Date Dean's signature