

## **PLAN OF STUDIES**

**FACULTY: Civil Engineering**

**MAIN FIELD OF STUDY: Civil Engineering**

**EDUCATION LEVEL: I/ II \* level, ~~licencjat~~ / ~~inżynier~~ / ~~magister~~ / magister inżynier (MSc)\***

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

**PROFILE: general academic / ~~practical~~\***

**SPECIALIZATION: Civil Engineering**

**LANGUAGE OF STUDY: English**

Faculty Council resolution no.388/20/2016-2020 from 25.04.2018 r.

In effect since 1.10.2018 r.

## **Prerequisites for specializations**

### **Civil Engineering CEB**

Specialization is intended for graduates of all universities that meet the general requirements of competence for candidates to study a second degree at WBLiW at the Wrocław University of Technology - the graduation degree in the fields of construction or similar (called "related fields-of-study") in the Law Building and regulations issued thereunder). Requires possessing of the knowledge and skills (learning outcomes) for the civil engineering field of study, according to the program of study at the Faculty of Civil Engineering of WUT. Students not meeting this requirement, you should complete the missing knowledge in the context of self-education (literature is given). Foreign candidates, not speaking Polish language, are also accepted for the studies.



<b><i>Elective modules from block B:</i></b>		0	0	0	0	0	0	0	0	1	2		1	2
<b>FLH020161</b>	Ethics in engineering													
	<i>Etyka inżynierska</i>													
<b>FLH020261</b>	Ethics in business													
	<i>Etyka w biznesie</i>													
<b>Total in semester:</b>		<b>12</b>	<b>14</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>27</b>	<b>30</b>

## Year I, semester 2

Code no.	Module name	lec		cl		lab		proj		sem		E/GK	Total module	
		h	ECTS	h	ECTS	h	ECTS	h	ECTS	h	ECTS		h	ECTS
CEB007962	Dynamics	1	2	0	0	1	1	0	0	0	0	E	2	3
	<i>Dynamika budowli</i>													
CEB005362	Computational mechanics	1	1	0	0	2	2	0	0	0	0		3	3
	<i>Metody komputerowe</i>													
CEB008662	Construction techniques and processes	1	1	0	0	0	0	2	2	0	0	E	3	3
	<i>Technologia robót budowlanych</i>													
CEB004462	Apartment building	2	2	0	0	0	0	1	1	0	0		3	3
	<i>Budownictwo mieszkaniowe</i>													
CEB003962	Underground structures – urban infrastructure	2	2	0	0	0	0	2	2	0	0	E	4	4
	<i>Budownictwo podziemne – infrastruktura miejska</i>													
CEB004062	Railways	2	1	0	0	0	0	2	2	0	0		4	3
	<i>Koleje</i>													
CEB004162	Roads, streets and airports	2	2	0	0	0	0	2	2	0	0		4	4
	<i>Drogi, ulice i lotniska</i>													
CEB008062	Bridges	2	2	0	0	0	0	2	2	0	0	E	4	4
	<i>Mosty</i>													
<b>Elective modules from block C:</b>		0	0	3	2	0	0	0	0	0	0		3	2
JZL100710BK	Język obcy – inny niż na I st., poziom co najmniej A1/A2 <i>Foreign language – second, at least level A1/A2</i>													
<b>Elective modules from block W:</b>		0	0	1	1	0	0	0	0	0	0		1	1
WFW010000BK	Zajęcia sportowe – wybór sekcji													
	<i>Optional sports</i>													
<b>Total in semester:</b>		<b>13</b>	<b>13</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>11</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>31</b>	<b>30</b>
<b>Total accumulated:</b>		<b>25</b>	<b>27</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>6</b>	<b>18</b>	<b>18</b>	<b>1</b>	<b>2</b>	<b>8</b>	<b>58</b>	<b>60</b>

## Year II, semester 3

Code no.	Module name	lec		cl		lab		proj		sem		E/GK	Total module	
		h	ECTS	h	ECTS	h	ECTS	h	ECTS	h	ECTS		h	ECTS
CEB008563	Construction project management	1	1	1	2	0	0	0	0	0	0		2	3
	<i>Zarządzanie przedsięwzięciami budowlanymi</i>													
CEB009863	Master thesis seminar	0	0	0	0	0	0	0	0	2	3		2	3
	<i>Seminarium dyplomowe</i>													
CEB099963	Master thesis (MSc)												10	18
	<i>Praca dyplomowa magisterska</i>													
<b>Elective modules from block 1</b>		1	1	0	0	1	2	0	0	0	0		2	3
CEB006063	Artificial intelligence in civil engineering													
	<i>Sztuczna inteligencja w budownictwie</i>													
CEB006163	Modern testing methods for non-destructive inspection of building structures													
	<i>Nowoczesne metody badań nieniszczących konstrukcji budowlanych</i>													
CEB007063	Advanced building physics													
	<i>Zaawansowana fizyka budowli</i>													
CEB006363	Hydrology for building engineers													
	<i>Hydrologia dla inżynierów budowlanych</i>													
CEB006863	Effective properties of composites – introduction to micro-mechanics													
	<i>Właściwości efektywne kompozytów – wprowadzenie do mikromodelowania</i>													

<i>Elective modules from block 2</i>		1	1	0	0	0	0	1	2	0	0		2	3
<b>CEB006563</b>	Pre-stressed concrete structures													
	<i>Betonowe konstrukcje sprężone</i>													
<b>CEB006663</b>	Timber structures													
	<i>Konstrukcje drewniane</i>													
<b>CEB006763</b>	Conservation and strengthening of monumental heritage structures													
	<i>Konserwacja i wzmacnianie konstrukcji zabytkowych</i>													
<b>CEB006963</b>	Methods of applied statistics (geo-statistics)													
	<i>Metody statystyki stosowanej geostatystyka</i>													
<b>CEB008263</b>	Sustainable housing													
	<i>Budownictwo zrównoważone</i>													
<b>Total in semester:</b>		<b>3</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>8</b>	<b>30</b>
<b>Total accumulated:</b>		<b>28</b>	<b>30</b>	<b>9</b>	<b>9</b>	<b>7</b>	<b>8</b>	<b>19</b>	<b>20</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>66</b>	<b>90</b>

lec	28.0	42.4%	CNPS	2685 h	(WF - 15 ZZU, 1 ECTS, 15 CNPS)
cl+lab+proj+sem	38.0	57.6%	ZZU	990 h	
			1 ECTS	30 h	CNPS
cl	9.0	13.6%			
lab	7.0	10.6%			
proj	19.0	28.8%			
sem	3.0	4.5%			

E – obligatory exam

GK – group of courses (one credition)

### Set of examinations in semestral arrangement

No.	Course code	Names of courses ending with examination	Semester
		<b>Civil Engineering</b>	
1	<b>CEB007261</b>	Selected topics in mathematics. Matematyka - wybrane zagadnienia	1
2	<b>CEB007461</b>	Selected topics in structural mechanics. Statyka budowli - wybrane zagadnienia	1
3	<b>CEB007561</b>	Concrete structures - objects. Konstrukcje betonowe - obiekty	1
4	<b>CEB007661</b>	Metal structures - objects. Konstrukcje metalowe - obiekty	1
5	<b>CEB007962</b>	Dynamics. Dynamika budowli	2
6	<b>CEB008662</b>	Construction techniques and processes. Technologia robót budowlanych	2
7	<b>CEB003962</b>	Underground structures - urban infrastructure. Budownictwo podziemne - infrastruktura miejska	2
8	<b>CEB008062</b>	Bridges. Mosty	2



### 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

### List of blocked modules - none

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Opinion of the faculty student government legislative body:

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Date \_\_\_\_\_ Name and surname, signature of the student representative

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Date \_\_\_\_\_ Dean's signature