

PLAN OF STUDIES

FACULTY: Civil Engineering

MAIN FIELD OF STUDY: Civil Engineering

EDUCATION LEVEL: I/ II * level, ~~licencjat~~ / ~~inżynier~~ / ~~magister~~ / magister inżynier*

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.

Plan of studies structure

1) in ECTS layout

Specjalność: Civil Engineering

| ECTS | Sem. 1 | Sem. 2 | Sem. 3 |
|------|---|--|--|
| 30 | FZP007163 Fizyka nowoczesnych materiałów | CEB007962 Dynamika budowli | CEB008563 Zarządzanie przedsięwzięciami budowlanymi |
| 29 | CEB007261 Matematyka-wybrane zagadnienia | | |
| 28 | | CEB007361 Fundamentowanie-wybrane zagadnienia | CEB005362 Metody komputerowe |
| 27 | CEB008361 Teoria sprężystości i plastyczności | | |
| 26 | | Zajęcia sportowe - blok W | CEB008662 Technologia robót budowlanych |
| 25 | CEB004462 Budownictwo mieszkaniowe | | |
| 24 | | CEB008461 Statyka budowli – wybrane zagadnienia | CEB003962 Budownictwo podziemne – infrastruktura miejska |
| 23 | CEB007561 Konstrukcje betonowe – obiekty | | |
| 22 | | CEB004062 Koleje | CEB004162 Drogi, ulice i lotniska |
| 21 | CEB007661 Konstrukcje metalowe –obiekty | | |
| 20 | | CEB007761 Zaawansowane komputerowe wspomaganie projektowania | CEB008062 Mosty |
| 19 | CEB007861 Hydraulika w budownictwie | | |
| 18 | | Moduł wybieralny z bloku A | Moduł wybieralny z bloku C |
| 17 | Moduł wybieralny z bloku B | | |
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Specialization: Civil Engineering

| ECTS | Sem. 1 | Sem. 2 | Sem. 3 |
|------|---|--|---|
| 30 | FZP007163 Physics of modern materials | CEB007962 Dynamics | CEB008563 Construction project management |
| 29 | CEB007261 Mathematics - selected topics | | |
| 28 | | CEB007361 Selected topics in geo-engineering - foundations | CEB005362 Computational mechanics |
| 27 | CEB008361 Theory of elasticity and plasticity | | |
| 26 | | Sports - Elective W | CEB008662 Constructions techniques and processes |
| 25 | CEB004462 Apartment building | | |
| 24 | | CEB008461 Selected topics in structural mechanics | CEB003962 Underground structures - urban infrastructure |
| 23 | CEB007561 Concrete structures - objects | | |
| 22 | | CEB004062 Railways | CEB004162 Roads, streets and airports |
| 21 | CEB007661 Metal structures - objects | | |
| 20 | | CEB007761 Advanced computer aided engineering | CEB008062 Bridges |
| 19 | CEB007861 Hydraulics in civil engineering | | |
| 18 | | Elective A | Elective C |
| 17 | Elective B | | |
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| 3 | | | |
| 2 | | | |
| 1 | | | |

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| Moduł wybieralny z bloku A: | | Moduł z bloku wybieralnego 1: | |
| FLH020361 Etyka inżynierska FLH020461 Etyka w biznesie | | CEB00606 Sztuczna inteligencja w budownictwie CEB006163 Nowoczesne metody badań nieniszczących konstrukcji budowlanych CEB007063 Zaawansowana fizyka budowli CEB006363 Hydrologia dla inżynierów budowlanych CEB006863 Właściwości efektywne kompozytów – wprowadzenie do mikromodelowania | |
| Moduł wybieralny z bloku B: | Moduł wybieralny z bloku C: | | |
| JZL100709BK Język obcy – poziom B2+ | JZL100710BK Język obcy – poziom A1/A2 | | |
| | | Moduł z bloku wybieralnego 2: | |
| | | CEB006563 Betonowe konstrukcje sprężone CEB006663 Konstrukcje drewniane CEB006763 Konserwacja i wzmacnianie konstrukcji zabytkowych CEB006963 Metody statystyki stosowanej (geostatystyka) CEB008263 Budownictwo zrównoważone | |
| | | Moduł wybieralny z bloku W: | |
| | | WFW010000BK Zajęcia sportowe | |

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| Elective A: | | Elective 1: | |
| FLH020361 Etyka inżynierska FLH020461 Etyka w biznesie | | CEB00606 Artificial intelligence in civil engineering CEB006163 Modern testing methods for non-destructive inspection of building structures CEB007063 Advanced building physics CEB006363 Hydrology for building engineers CEB006863 Effective properties of composites - introduction to micro-mechanics | |
| Elective B: | Elective C: | | |
| JZL100709BK Foreign language B2+ | JZL100710BK Foreign language - level A1/A2 | | |
| | | Elective W: | |
| | | WFW010000BK Sports | |
| | | Elective 2: | |
| | | CEB006563 Pre-stressed concrete structures CEB006663 Timber structures CEB006763 Conservation and strengthening of monumental heritage structures CEB006963 Methods of applied statistics (geo-statistics) CEB008263 Sustainable housing | |

Prerequisites for specialty CEB

Specialization is designated for graduates of all universities who meet the general competency requirements for candidates to study a second degree at WBLiW WrUT - the 1st level degree in civil engineering or in the close directions (so-called “related fields-of-study” in accordance with the Construction Law and regulations implementing this act). Requires possession of knowledge and skills (learning outcomes) for the filed-of-study civil engineering, according to the program of education at the Faculty of Civil Engineering at Wrocław University of Technology. Students not meeting this requirement, they should complete the missing knowledge by self-education (given the literature). Admitted to study are also graduates of foreign universities, not fluent in Polish.

Plan of studies structure

2) in hourly layout

Specjalność: Civil Engineering

| Godziny | Sem. 1 | Sem. 2 | Sem. 3 |
|---------|--|--|---|
| 31 | | Moduł wybieralny z bloku W | |
| 30 | | CEB007962 Dynamika budowli | |
| 29 | | | |
| 28 | | CEB005362 Metody komputerowe | |
| 27 | FZP007163 Fizyka nowoczesnych materiałów | | |
| 26 | CEB007261 Matematyka - wybrane zagadnienia | | |
| 25 | | CEB008662 Technologia robót budowlanych | |
| 24 | CEB007361 Fundamentowanie-wybrane zagadnienia | | |
| 23 | | CEB004462 Budownictwo mieszkaniowe | |
| 22 | CEB008361 Teoria sprężystości i plastyczności | | |
| 21 | | CEB003962 Budownictwo podziemne – infrastruktura miejska | |
| 20 | CEB008461 Statyka budowli – wybrane zagadnienia | | |
| 19 | | | |
| 18 | | CEB004062 Koleje | |
| 17 | CEB007561 Konstrukcje betonowe – obiekty | | |
| 16 | | CEB004162 Drogi, ulice i lotniska | |
| 15 | | | |
| 14 | | | |
| 13 | CEB007661 Konstrukcje metalowe – obiekty | | |
| 12 | | | |
| 11 | | | |
| 10 | CEB007761 Zaawansowane komputerowe wspomaganie projektowania | | |
| 9 | CEB007861 Hydraulika w budownictwie | | |
| 8 | | | CEB008563 Zarządzanie przedsięwzięciami budowlanymi |
| 7 | | | CEB009863 Seminarium dyplomowe |
| 6 | | CEB008062 Mosty | |
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| 4 | | | Moduł z bloku wybieralnego1 |
| 3 | | | |

Specialization: Civil Engineering

| Hours | Sem. 1 | Sem. 2 | Sem. 3 |
|-------|--|---|---|
| 31 | | Sports - Elective W | |
| 30 | | CEB007962 Dynamics | |
| 29 | | | |
| 28 | | CEB005362 Computational mechanics | |
| 27 | FZP007163 Physics of modern materials | | |
| 26 | CEB007261 Mathematics - selected topics | | |
| 25 | | CEB008662 Constructions techniques and processes | |
| 24 | CEB007361 Selected topics in geo-engineering - foundations | | |
| 23 | | CEB004462 Apartment building | |
| 22 | CEB008361 Theory of elasticity and plasticity | | |
| 21 | | CEB003962 Underground structures - urban infrastructure | |
| 20 | CEB008461 Selected topics in structural mechanics | | |
| 19 | | | |
| 18 | | CEB004062 Railways | |
| 17 | CEB007561 Concrete structures - objects | | |
| 16 | | CEB004162 Roads, streets and airports | |
| 15 | | | |
| 14 | | | |
| 13 | CEB007661 Metal structures - objects | | |
| 12 | | | |
| 11 | | | |
| 10 | CEB007761 Advanced computer aided engineering | | |
| 9 | CEB007861 Hydraulics in civil engineering | | |
| 8 | | | CEB008563 Construction project management |
| 7 | | CEB008062 Bridges | CEB009863 Master thesis seminar |
| 6 | | | |
| 5 | | | |
| 4 | | | Elective 1 |
| 3 | | | |

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|---|----------------------------|----------------------------|-----------------------------|
| 2 | Moduł wybieralny z bloku A | Moduł wybieralny z bloku C | Moduł z bloku wybieralnego2 |
| 1 | Moduł wybieralny z bloku B | | |

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| Moduł wybieralny z bloku A: FLH020361 Ethics in engineering FLH020461 Ethics in business | | Moduł z bloku wybieralnego 1: CEB00606 Sztuczna inteligencja w budownictwie CEB006163 Nowoczesne metody badań nieniszczących konstrukcji budowlanych CEB007063 Zaawansowana fizyka budowli CEB006363 Hydrologia dla inżynierów budowlanych CEB006863 Właściwości efektywne kompozytów –wprowadzenie do mikromodelowania |
| Moduł wybieralny z bloku B: JZL100709BK Język obcy – poziom B2+ | Moduł wybieralny z bloku C: JZL100710BK Język obcy – poziom A1/A2 | |
| | Moduł wybieralny z bloku W: WFW010000BK Zajęcia sportowe | |
| | | Moduł z bloku wybieralnego 2: CEB006563 Betonowe konstrukcje sprężone CEB006663 Konstrukcje drewniane CEB006763 Konserwacja i wzmacnianie konstrukcji zabytkowych CEB006963 Metody statystyki stosowanej (geostatystyka) CEB008263 Budownictwo zrównoważone |

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|---|------------|------------|------------|
| 2 | Elective A | Elective C | Elective 2 |
| 1 | Elective B | | |

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|--|--|---|
| Elective A: FLH020361 Ethics in engineering FLH020461 Ethics in business | | Elective 1: CEB00606 Artificial intelligence in civil engineering CEB006163 Modern testing methods for non-destructive inspection of building structures CEB007063 Advanced building physics CEB006363 Hydrology for building engineers CEB006863 Effective properties of composites - introduction to micro-mechanics |
| Elective B: JZL100709BK Foreign language B2+ | Elective C: JZL100710BK Foreign language - level A1/A2 | |
| | Elective W: WFW010000BK Sports | |
| | | Elective 2: CEB006563 Pre-stressed concrete structures CEB006663 Timber dtructures CEB006763 Conservation and strengthening of monumental heritage structures CEB006963 Methods o applied statistics (geo-statistics) CEB008263 Sustainable housing |

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

Definitions:

¹BK – 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

⁵Practical course / group of courses – P. For the group of courses (GK) - in brackets enter the number of ECTS points assigned to practical courses

⁶KO – general education, PD – basic sciences, K – field-of-studies, S – specialization

⁷Optional – W, obligatory – Ob.

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

Modules for optional specialization: Civil Engineering CEB [9]
Specialization: Civil Engineering (language of studies: English)
Supervisor: prof. dr hab. inż. Jan BIENÍ

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 | | | | | Field-of-study educational 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 | BK classes ¹ | | | university-wide ⁴ | practical P ⁵ | kind ⁶ | type ⁷ | |
| 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 | 0.5 | T | Z | O | | PD | Ob. | |
| 2 | CEB007261 | Selected topics in mathematics. Matematyka - wybrane zagadnienia | 1 | | | | | K2_W01, K2_U08, K2_K01, K2_K02, K2_K03, K2_K06 | 15 | 60 | 2 | 0.6 | T | E | | | PD | Ob. | |
| | | | | 1 | | | | | 15 | 30 | 1 | 0.6 | T | Z | | 0.9 | 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 | 0.5 | T | Z | | | K | Ob. | |
| | | | | | | 2 | | | 30 | 60 | 2 | 1.2 | T | Z | | 2.0 | K | Ob. | |

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| 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 | 60 | 2 | 1.1 | T | Z | | | K | Ob. |
| | | | | 1 | | | | | 15 | 30 | 1 | 0.6 | T | Z | 0.8 | | 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 | 90 | 3 | 1.1 | T | E | | | K | Ob. |
| | | | | 1 | | | | | 15 | 30 | 1 | 0.7 | T | Z | 0.5 | | K | Ob. |
| | | | | | 1 | | | | 15 | 30 | 1 | 0.7 | T | Z | 1.0 | | 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 | 1.1 | T | E | | | S | Ob. |
| | | | | | | 2 | | | 30 | 60 | 2 | 1.1 | T | Z | 2.0 | | S | Ob. |

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|---|------------------|---|---|--|---|--|--|---|----|----|---|-----|---|---|--|-----|---|-----|
| 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, K_K03 | 30 | 60 | 2 | 1.1 | T | E | | | S | Ob. |
| | | | | | 2 | | | | 30 | 60 | 2 | 1.1 | T | Z | | 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 | 1.2 | T | Z | | 2.0 | S | Ob. |

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|--------------|--------------------|--|----|---|---|---|---|--|--|-----|-----|----|------|---|---|---|------|----|-----|
| 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 | 0.6 | T | Z | | | S | Ob. |
| | | | | | | 1 | | | | 15 | 30 | 1 | 0.6 | T | Z | | 1.0 | S | Ob. |
| | | Module selected from block A | | | | | | | | | | | | | | | | | |
| 10 | JZL100709BK | Foreign language - level B2+. Język obcy - poziom B2+ | | 1 | | | | | K2_U01, K2_U02, K2_K01, K2_K06 | 15 | 30 | 1 | 0.5 | T | Z | O | 1.0 | KO | W |
| Total | | | 12 | 4 | 3 | 7 | 0 | | | 390 | 840 | 28 | 14.9 | | | | 13.2 | | |

Groups of optional courses

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 | | | | | Field-of-study educational 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 | BK classes ¹ | | | university-wide ⁴ | practical P ⁵ | kind ⁶ | type ⁷ |
| 1 | | Module selected from block B | | | | | 1 | | 15 | 60 | 2 | 0.6 | T | Z | O | 1.5 | KO | W |
| | FLH020361 | Ethics in engineering. Etyka inżynierska | | | | | | K2_W13, K2_W14, K2_U15, K2_U03, K2_U16, K2_U16, K2_K01, K2_K02, K2_K04, K2_K06 | | | | | | | | | | |
| | FLH020461 | Ethics in business. Etyka w biznesie | | | | | | | | | | | | | | | | |
| Total | | | 0 | 0 | 0 | 0 | 1 | | 15 | 60 | 2 | 0.6 | | | | 1.5 | | |

Total in semester:

| Total number of hours | | | | | Total number of ZZU hours | Total number of CNPS hours | Total number of ECTS points | Total number of ECTS points for BK | Total number of ECTS points for P |
|-----------------------|----|-----|----|-----|---------------------------|----------------------------|-----------------------------|------------------------------------|-----------------------------------|
| lec | cl | lab | pr | sem | | | | | |
| 12 | 4 | 3 | 7 | 1 | 405 | 900 | 30 | 15.5 | 14.7 |

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 | | | | | Field-of-study educational 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 | BK classes ¹ | | | university-wide ⁴ | practical P ⁵ | kind ⁶ | type ⁷ |
| 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 | 0.7 | T | E | | | K | Ob. |
| | | | | | 1 | | | | 15 | 30 | 1 | 0.6 | T | Z | | 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 | 30 | 1 | 0.5 | T | Z | | | K | Ob. |
| | | | | | 2 | | | | 30 | 60 | 2 | 1.1 | T | Z | | 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 | 0.7 | T | E | | | S | Ob. |
| | | | | | 2 | | | | 30 | 60 | 2 | 1.1 | T | Z | | 2.0 | S | Ob. |
| 4 | CEB004462 | Apartment building. Budownictwo mieszkaniowe | 2 | | | | | K2_W04, K2_W06, K2_W07, K2_W14, 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 | 30 | 60 | 2 | 1.1 | T | Z | | | S | Ob. |
| | | | | | 1 | | | | 15 | 30 | 1 | 0.6 | T | Z | | 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 | 1.0 | T | E | | | S | Ob. |
| | | | | | 2 | | | | 30 | 60 | 2 | 1.2 | T | Z | | 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 | 1.0 | T | Z | | | S | Ob. |
| | | | | | 2 | | | | 30 | 60 | 2 | 1.1 | T | Z | | 1.8 | 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 | 1.3 | T | Z | | | S | Ob. |
| | | | | | 2 | | | | 30 | 60 | 2 | 1.3 | T | Z | | 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 | 1.3 | T | E | | | S | Ob. |
| | | | | | 2 | | | | 30 | 60 | 2 | 1.3 | T | Z | | 2.0 | S | Ob. |
| | | Elective from block C | | | | | | | | | | | | | | | | |
| 9 | JZL100710BK | Foreign language - level A1/A2. Język obcy - poziom A1/A (for foreign students - Polish language) | | 3 | | | | K2_U01, K2_U02, K2_K01, K2_K06 | 45 | 60 | 2 | 1.5 | T | Z | O | 2.0 | KO | W |

| | | | | | | | | | | | | | | | | | | |
|--------------|-------------|---|----|---|---|----|---|--------|-----|-----|----|------|---|---|---|------|----|---|
| 10 | | Elective from block W | | 1 | | | | | 15 | 15 | 1 | 1.0 | T | Z | O | 1.0 | KO | W |
| | WFW010000BK | Optional sports. Zajęcia sportowe - wybór sekcji. | | | | | | K2_K07 | | | | | | | | | | |
| Total | | | 13 | 4 | 3 | 11 | 0 | | 465 | 885 | 30 | 18.4 | | | | 16.8 | | |

Total in semester:

| Total number of hours | | | | | Total number of ZZU hours | Total number of CNPS hours | Total number of ECTS points | Total number of ECTS point for BK | Total number of ECTS points for P |
|-----------------------|----|-----|----|-----|---------------------------|----------------------------|-----------------------------|-----------------------------------|-----------------------------------|
| lec | cl | lab | pr | sem | | | | | |
| 13 | 4 | 3 | 11 | 0 | 465 | 885 | 30 | 18.4 | 16.8 |

Total accumulated:

| Total number of hours | | | | | Total number of ZZU hours | Total number of CNPS hours | Total number of ECTS points | Total number of ECTS point for BK | Total number of ECTS points for P |
|-----------------------|----|-----|----|-----|---------------------------|----------------------------|-----------------------------|-----------------------------------|-----------------------------------|
| lec | cl | lab | pr | sem | | | | | |
| 25 | 8 | 6 | 18 | 1 | 870 | 1785 | 60 | 33.9 | 31.5 |

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 | | | | | Field-of-study educational 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 | BK classes ¹ | | | university-wide ⁴ | practical P ⁵ | kind ⁶ | type ⁷ |
| | | | 1 | CEB008563 | Construction project management. Zarządzanie przedsiębiorstwami budowlanymi | 1 | | | | | | 15 | | | 30 | 1 | 0.6 | T |
| | | | | 1 | | | | 15 | 60 | 2 | 0.6 | T | Z | | 1.5 | KO | Ob. | |

| | | | | | | | | | | | | | | | | | | |
|--------------|------------------|--|---|---|---|---|---|--|----|-----|----|-----|---|---|--|------|---|-----|
| 2 | CEB009863 | Master thesis seminar. Seminarium dyplomowe | | | | | 2 | K2_W15, K2S_CEB_W16- K2S_CEB_W21, K2_U01, K2_U02, K2_U15, K2_U16, K2_U17, K2S_CEB_U18- K2S_CEB_U23, K2_K01, K2_K02, K2_K03, K2_K06 | 30 | 90 | 3 | 1.1 | T | Z | | 2.7 | S | Ob. |
| 3 | CEB099963 | Master thesis (MSc). Praca dyplomowa magisterska | | | | | | K2_W02-K2_W05, K2_W07, K2_W09, K2S_CEB_W16- K2S_CEB_W22, K2_U01, K2_U06- K2_U09, K2_U15, K2_U16, K2_U17, K2S_CEB_U18- K2S_CEB_U23, K2_K01, K2_K02, K2_K04 | | 540 | 18 | 0.3 | T | Z | | 18.0 | S | Ob. |
| Total | | | 1 | 1 | 0 | 0 | 2 | | 60 | 720 | 24 | 2.6 | | | | 22.2 | | |

| | | | | | | | | | | | | | | | | | | | | |
|------------------|---|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|
| CEB006363 | Hydrology for building engineers. Hydrologia dla inżynierów budowlanych | | | | | | | K2_W01, K2_W02, K2_W03, K2_W09, K2_CEB_W22, K2_U07, K2_U08, K2_CEB_U23, K2_K01, K2_K02, K2_K03, K2_K04, K2_K05, 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, KS_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 | 2.4 | | | | 4.0 | | |

Total in semester:

| Total number of hours | | | | | Total number of ZZU hours | Total number of CNPS hours | Total number of ECTS points | Total number of ECTS point for BK | Total number of ECTS points for P |
|-----------------------|----|-----|----|-----|---------------------------|----------------------------|-----------------------------|-----------------------------------|-----------------------------------|
| lec | cl | lab | pr | sem | | | | | |
| 3 | 1 | 1 | 1 | 2 | 120 | 900 | 30 | 5.0 | 26.2 |

Total accumulated:

| Total number of hours | | | | | Total number of ZZU hours | Total number of CNPS hours | Total number of ECTS points | Total number of ECTS point for BK | Total number of ECTS points for P |
|-----------------------|----|-----|----|-----|---------------------------|----------------------------|-----------------------------|-----------------------------------|-----------------------------------|
| lec | cl | lab | pr | sem | | | | | |
| 28 | 9 | 7 | 19 | 3 | 990 | 2685 | 90 | 38.9 | 57.7 |

Total number of ZZU hours: 990

Hours - lectures: 42.4%

Hours - other courses: 57.6%

ECTS - BK: 43.2%

ECTS - P: 64.1%

2. Set of examinations in semestral arrangement

| No | Course code | Names of courses ending with examination | Semester |
|--------------------------|------------------|--|----------|
| Civil Engineering | | | |
| 1 | CEB007261 | 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. 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 |

4. List of blocking modules

There are no blocked modules

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

In effect since 1.10.2018 r.

Opinion of the faculty student government legislative body:

Date Name and surname, signature of the student representative

Date Dean's signature