

## Plan studiów II stopnia - studia stacjonarne

Uczelnia: Politechnika Śląska  
 Wydział: Budownictwa  
 Kierunek: Budownictwo  
 Specjalność: **Konstrukcje Budowlane i Inżynierskie**  
 Profil dyp.: **Geotechnika**  
 Uwagi: Zatwierc. GIBP, 26.04.2017 r.

| lp       | nazwa   | kod przedmiotu | liczba godzin | s. I            |          |            |           |              |         |            |           | s. II     |          |                 |                 |         |            | s. III    |         |                 |           |                 |         |            |     |    |    |
|----------|---|----------------|---------------|-----------------|----------|------------|-----------|--------------|---------|------------|-----------|-----------|----------|-----------------|-----------------|---------|------------|-----------|---------|-----------------|-----------|-----------------|---------|------------|-----|----|----|
|          |   |                |               | ECTS            | Egzamin  | wykład     | ćwiczenia | laboratorium | projekt | seminarium | ECTS      | Egzamin   | wykład   | ćwiczenia       | laboratorium    | projekt | seminarium | ECTS      | Egzamin | wykład          | ćwiczenia | laboratorium    | projekt | seminarium |     |    |    |
|          |   |                |               | kod karty       |          |            |           |              |         |            | kod karty |           |          |                 |                 |         |            | kod karty |         |                 |           |                 |         |            |     |    |    |
| <b>I</b> | <b>Przedmioty inne</b>                              | -              | 150           | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       |            |     |    |    |
| 1        | Nauka o zarządzaniu                                 | RB-S2-17-I05   | 30            | RB-S2-17-I05-5  | 3        | 0          | 30        | -            | -       | -          | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       |            |     |    |    |
| 2        | Social Communication                                | RB-S2-17-I06   | 30            | RB-S2-17-I06-6  | 3        | 0          | 30        | -            | -       | -          | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       |            |     |    |    |
| 3        | Język obcy  | RB-S2-17-I01   | 60            | RB-S2-17-I01-1  | 3        | 0          | -         | -            | 30      | -          | -         | -         | -        | -               | RB-S2-17-I01-7  | 3       | 0          | -         | -       | 30              | -         | -               | -       | -          |     |    |    |
| 4        | Zajęcia sportowe                                    | RB-S2-17-I07   | 30            | RB-S2-17-I07-9  | 0        | 0          | -         | 30           | -       | -          | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       |            |     |    |    |
| <b>W</b> | <b>Przedmioty wspólne</b>                           | -              | 330           | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       |            |     |    |    |
| 5        | Metody statystyczne w badaniach                     | RB-S2-17-W06   | 30            | RB-S2-17-W06-11 | 3        | 1          | 15        | 5            | -       | 10         | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       |            |     |    |    |
| 6        | Zaawansowane konstrukcje betonowe                   | RB-S2-17-W08   | 50            | RB-S2-17-W08-13 | 5        | 0          | 27        | 4            | -       | 19         | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       |            |     |    |    |
| 7        | Zaawansowane konstrukcje metalowe                   | RB-S2-17-W09   | 25            | RB-S2-17-W09-14 | 2        | 0          | 13        | 1            | -       | 11         | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       |            |     |    |    |
| 8        | Mechanika materiałów i konstrukcji                  | RB-S2-17-W1D   | 60            | RB-S2-17-W1D-6  | 3        | 0          | 20        | -            | 5       | 5          | -         | -         | -        | RB-S2-17-W1D-7  | 3               | 0       | 20         | -         | 5       | 5               | -         | -               | -       |            |     |    |    |
| 9        | Zaawansowane materiały i technologie w budownictwie | RB-S2-17-W19   | 30            | RB-S2-17-W19-E  | 3        | 0          | 8         | 7            | -       | 15         | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       |            |     |    |    |
| 10       | Diagnostyka w budownictwie                          | RB-S2-17-W07   | 60            | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | -               | RB-S2-17-W07-12 | -       | -          | -         | 5       | 0               | 15        | -               | -       | 45         |     |    |    |
| 11       | Prawo budowlane, ochrona własności intelektualnej   | RB-S2-17-W1F   | 15            | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | RB-S2-17-W1F-9  | 1               | 0       | 8          | 1         | -       | -               | -         | -               | -       | 6          |     |    |    |
| 12       | Obiekty infrastruktury transportu publicznego       | RB-S2-17-W1B   | 30            | RB-S2-17-W1B-F  | 2        | 0          | 15        | -            | -       | 15         | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       |            |     |    |    |
| 13       | Advanced Geotechnical Problems                      | RB-S2-17-W17   | 30            | RB-S2-17-W17-20 | 3        | 1          | 25        | -            | 5       | -          | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       |            |     |    |    |
| <b>S</b> | <b>Przedmioty specjalnościowe</b>                   | -              | 600           | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       |            |     |    |    |
| 14       | Zaawansowane konstrukcje betonowe                   | RB-S2-17-S0B   | 20            | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | RB-S2-17-S0B-32 | 1               | 0       | 6          | -         | -       | 14              | -         | -               | -       | -          |     |    |    |
| 15       | Zaawansowane konstrukcje metalowe                   | RB-S2-17-S0C   | 10            | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | RB-S2-17-S0C-33 | 1               | 0       | -          | -         | -       | 10              | -         | -               | -       | -          |     |    |    |
| 16       | Konstrukcje fundamentów                             | RB-S2-17-S0E   | 30            | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | RB-S2-17-S0E-34 | 2               | 0       | -          | -         | -       | 30              | -         | -               | -       | -          |     |    |    |
| 17       | Nowoczesne badania w geotechnice                    | RB-S2-17-S62   | 90            | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | RB-S2-17-S62-1E | 7               | 1       | 30         | -         | 60      | -               | -         | -               | -       | -          |     |    |    |
| 18       | Geomechanika  | RB-S2-17-S33   | 60            | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | RB-S2-17-S33-3D | 4               | 1       | 60         | -         | -       | -               | -         | -               | -       | -          |     |    |    |
| 19       | Analizy numeryczne w geomechanice                   | RB-S2-17-S63   | 45            | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | -               | -               | -       | -          | -         | -       | RB-S2-17-S63-21 | 5         | 1               | 30      | 2          | 13  |    |    |
| 20       | Zaawansowane projektowanie w geotechnice            | RB-S2-17-S64   | 75            | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | RB-S2-17-S64-22 | 4               | 0       | 30         | 4         | 26      | -               | -         | -               | 2       | 13         |     |    |    |
| 21       | Fundamentowanie na słabych gruntach                 | RB-S2-17-S36   | 90            | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | RB-S2-17-S36-41 | 4               | 0       | 30         | 2         | 13      | -               | -         | RB-S2-17-S36-43 | 4       | 1          | 15  | 4  | 26 |
| 22       | Seminarium dyplomowe                                | RB-S2-17-S01   | 30            | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | -               | -               | -       | -          | -         | -       | RB-S2-17-S01-2B | 2         | 0               | -       | -          | -   | 30 |    |
| 23       | Praca dyplomowa                                     | RB-S2-17-S02   | 150           | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | -               | -               | -       | -          | -         | -       | RB-S2-17-S02-2A | 13        | 0               | -       | -          | 150 |    |    |
| <b>P</b> | <b>Podsumowanie</b>                                 | -              | 1080          | -               | -        | -          | -         | -            | -       | -          | -         | -         | -        | -               | -               | -       | -          | -         | -       | -               | -         | -               | -       | -          |     |    |    |
|          |   |                |               | <b>30</b>       | <b>2</b> | <b>345</b> |           |              |         |            |           | <b>30</b> | <b>2</b> | <b>390</b>      |                 |         |            |           |         | <b>30</b>       | <b>2</b>  | <b>345</b>      |         |            |     |    |    |

### Podsumowanie

|  |       |             |    |
|--|-------|-------------|----|
| Liczba ECTS - przedmioty inne              | 13,3% | 12          | 9  |
| Liczba ECTS - przedmioty wspólne           | 33,3% | 30          | 21 |
| Liczba ECTS - przedmioty specjalnościowe   | 53,3% | 48          | 0  |
| Suma punktów ECTS                          |       | <b>90</b>   |    |
| Liczba godzin - przedmioty inne            | 13,9% | 150         |    |
| Liczba godzin - przedmioty wspólne         | 30,6% | 330         |    |
| Liczba godzin - przedmioty specjalnościowe | 55,6% | 600         |    |
| Suma godzin dydaktycznych                  |       | <b>1080</b> |    |
| Suma egzaminów                             |       | <b>6</b>    |    |

|  |   |
|--|---|
| Załącznik S2.5   |   |
| Plan studiów II stopnia - studia stacjonarne (j. pol.) |   |
| Kierunek:  | <b>Budownictwo</b>                          |
| Specjalność:   | <b>Konstrukcje Budowlane i Inżynierskie</b> |
| Profil dyp.:   | <b>Geotechnika</b>                          |

# Efekty kształcenia

Wydział: Budownictwa  
 Kierunek: Budownictwo  
 Specjalność: Konstrukcje Budowlane i Inżynierskie  
 Profil dyp.: Geotechnika

|   |     |    |     |     |     |     |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
|---|-----|----|-----|-----|-----|-----|----|----|-----|----|---|----|----|-----|-----|----|---|---|-----|-----|---|-----|---|-----|-----|-----|----|-----|-----|-----|---|---|---|---|---|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|
| Przedmioty I+V                                      | 4   | 2  | 4   | 5   | 2   | 4   | 2  | 5  | 2   | 2  | 3 | 2  | 4  | 2   | 2   | 2  | 2 | 1 | 1   | 2   | 4 | 2   | 2 | 2   | 3   | 3   | 3  | 1   | 2   | 2   | 1 | 3 | 1 | 1 | 2 | 5 | 2 | 3 | 7  | 5  | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 4 | 2 | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |
| Przedmioty S  | 0   | 4  | 5   | 6   | 2   | 3   | 0  | 4  | 4   | 0  | 0 | 0  | 0  | 6   | 5   | 2  | 0 | 1 | 1   | 0   | 0 | 3   | 4 | 6   | 3   | 1   | 4  | 4   | 1   | 3   | 0 | 2 | 0 | 1 | 1 | 2 | 3 | 3 | 0  | 6  | 7 | 1 | 0 | 0 | 2 | 4 | 4 | 0 | 0 | 0 | 0 |   |  |  |  |  |  |  |  |  |  |
| Razem   | 4   | 6  | 9   | 11  | 4   | 7   | 2  | 9  | 6   | 2  | 3 | 2  | 4  | 8   | 7   | 4  | 2 | 2 | 2   | 4   | 5 | 6   | 8 | 7   | 4   | 7   | 7  | 2   | 5   | 2   | 4 | 1 | 4 | 2 | 4 | 8 | 5 | 3 | 13 | 12 | 4 | 3 | 3 | 4 | 7 | 2 | 6 | 8 | 2 | 2 | 2 |   |  |  |  |  |  |  |  |  |  |
| <b>Przedmioty inne</b>                              |     |    |     |     |     |     |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Nauka o zarządzaniu                                 |     |    |     |     |     |     |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Social Communication                                |     |    |     |     |     |     |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Język obcy  |     |    |     |     |     |     |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Zajęcia sportowe                                    |     |    |     |     |     |     |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| <b>Przedmioty wspólne</b>                           |     |    |     |     |     |     |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Metody statystyczne w badaniach                     | +++ |    |     |     | +   |     |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Zaawansowane konstrukcje betonowe                   |     | ++ | +++ | ++  |     | ++  |    | +  | +++ |    |   |    |    | ++  |     | ++ |   |   |     |     |   | +++ | + | ++  | ++  |     | ++ | +++ |     | ++  |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Zaawansowane konstrukcje metalowe                   |     | ++ | +++ | ++  |     | +   |    | +  | +++ |    |   |    |    | ++  | +++ | ++ |   |   |     |     |   | +++ | + | ++  | ++  |     | ++ | +++ |     | ++  |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Mechanika materiałów i konstrukcji                  | ++  |    | ++  | ++  |     |     |    |    | +++ |    |   |    |    |     |     |    |   |   |     |     |   |     |   | +++ | +++ | +++ |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Zaawansowane materiały i technologie w budownictwie | ++  |    |     | ++  |     | +   | ++ | ++ |     | ++ | + | +  | +  |     |     |    |   |   |     |     |   |     |   | +   |     |     | +  |     | +++ |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Diagnostyka w budownictwie                          | +   |    |     |     | +++ | +   |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     | +  |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Prawo budowlane, ochrona własności intelektualnej   |     |    |     |     |     |     |    |    |     |    |   | ++ |    |     |     |    |   |   | +++ | +++ |   | ++  |   |     |     |     |    | +   |     | +++ |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Obiekty infrastruktury transportu publicznego       |     |    |     |     |     |     |    |    |     |    | + | ++ | +  |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Advanced Geotechnical Problems                      |     |    | ++  | ++  |     |     |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| <b>Przedmioty specjalnościowe</b>                   |     |    |     |     |     |     |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Zaawansowane konstrukcje betonowe                   |     | ++ | +++ | ++  |     | +   |    | +  | ++  |    |   |    |    | ++  | +++ | ++ |   |   |     |     |   | +++ | + | ++  | ++  |     | ++ |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Zaawansowane konstrukcje metalowe                   |     | ++ | +++ | ++  |     | +   |    | +  | ++  |    |   |    |    | ++  | +++ | ++ |   |   |     |     |   | +++ | + | ++  | ++  |     | ++ |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Konstrukcje fundamentów                             |     | ++ |     |     |     |     |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Nowoczesne badania w geotechnice                    |     |    |     |     | +++ | +++ |    |    |     |    |   |    |    | ++  |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Geomechanika  |     |    | ++  | +++ | +++ | +++ |    |    |     |    |   |    |    |     | ++  |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Analizy numeryczne w geomechanice                   |     |    | ++  | +++ |     |     |    |    | +++ |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Zaawansowane projektowanie w geotechnice            |     |    |     | +++ |     |     |    |    |     |    |   |    |    | ++  |     |    |   |   |     |     |   |     |   |     |     |     | ++ |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Fundamentowanie na słabych gruntach                 |     |    |     |     |     |     |    |    |     |    |   |    | ++ | +++ |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Seminarium dyplomowe                                |     | +  | +   | +   |     |     |    |    | ++  | ++ |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| Praca dyplomowa                                     |     |    |     |     |     |     |    |    |     |    |   |    |    |     |     |    |   |   |     |     |   |     |   |     |     |     |    |     |     |     |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |

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|--|---|
| Załącznik S2.5   |   |
| Plan studiów II stopnia - studia stacjonarne (j. pol.) |   |
| Kierunek:  | <b>Budownictwo</b>                          |
| Specjalność:   | <b>Konstrukcje Budowlane i Inżynierskie</b> |
| Profil dyp.:   | <b>Geotechnika</b>                          |