# Plan studiów I stopnia - studia niestacjonarne

Uczelnia: Politechnika Śląska
Wydział: Budownictwa
Kierunek: Budownictwo
Moduł (specjalność): **Inżynieria Procesów Budowlanych**
Uwagi: Zatwierdzony przez Radę Wydziału 16.05.2018 r.

| lp | nazwa | kod przedmiotu | liczba godzin | s. I | | | | | | | s. II | | | | | | | s. III | | | | | | | s. IV | | | | | | | s. V | | | | | | | s. VI | | | | | | | s. VII | | | | | | | s. VIII | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | kod karty | ECTS | Egzamin | wykład | ćwiczenia | laboratorium | projekt | seminarium | kod karty | ECTS | Egzamin | wykład | ćwiczenia | laboratorium | projekt | seminarium | kod karty | ECTS | Egzamin | wykład | ćwiczenia | laboratorium | projekt | seminarium | kod karty | ECTS | Egzamin | wykład | ćwiczenia | laboratorium | projekt | seminarium | kod karty | ECTS | Egzamin | wykład | ćwiczenia | laboratorium | projekt | seminarium | kod karty | ECTS | Egzamin | wykład | ćwiczenia | laboratorium | projekt | seminarium | kod karty | ECTS | Egzamin | wykład | ćwiczenia | laboratorium | projekt | seminarium |
| I | **Przedmioty ogólne** | | **420** | | | | | | | | | RB-N1-18-I01-2 | 7 | 1 | 45 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Matematyka | RB-N1-18-I01 | 150 | RB-N1-18-I01-1 | 6 | 1 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Fizyka | RB-N1-18-I02 | 45 | RB-N1-18-I02-4 | 5 | 0 | 30 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Chemia | RB-N1-18-I03 | 45 | RB-N1-18-I03-5 | 5 | 0 | 30 | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Język angielski | RB-N1-18-I04 | 120 | | | | | | | | | | | | | | | | | RB-N1-18-I04-25 | 2 | 0 | | | 30 | | | RB-N1-18-I04-29 | 2 | 0 | | | 30 | | | RB-N1-18-I04-2A | 2 | 0 | | | 30 | | | RB-N1-18-I04-26 | 2 | 1 | | | 30 | | | | | | | | | | | | | |
| 5 | Historia sztuki | RB-N1-18-I14 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Ergonomia i bezpieczeństwo pracy | RB-N1-18-I06 | 15 | | | | | | | | | | | | | | | | | RB-N1-18-I06-9 | 1 | 0 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W | **Przedmioty wspólne** | | **884** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Podstawy technologii informacyjnej | RB-N1-18-W01 | 20 | | | | | | | | | RB-N1-18-W01-1 | 2 | 0 | | 7 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Podstawy projektowania | RB-N1-18-W0B | 15 | | | | | | | | | RB-N1-18-W0B-D | 2 | 0 | 7 | 2 | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Podstawy urbanistyki i architektury | RB-N1-18-W09 | 22 | | | | | | | | | | | | | | | | | RB-N1-18-W09-5 | 2 | 0 | 10 | 2 | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Geometria wykreślna i rysunek techniczny | RB-N1-18-W04 | 44 | RB-N1-18-W04-4 | 7 | 0 | 10 | 10 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Mechanika teoretyczna | RB-N1-18-W02 | 40 | RB-N1-18-W02-2 | 7 | 1 | 20 | 10 | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Geodezja | RB-N1-18-W07 | 40 | | | | | | | | | RB-N1-18-W07-8 | 2 | 0 | 10 | 2 | 8 | | | RB-N1-18-W07-77 | 2 | 0 | 10 | 2 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Wytrzymałość materiałów | RB-N1-18-W08 | 45 | | | | | | | | | RB-N1-18-W08-9 | 7 | 1 | 20 | 2 | | 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Budownictwo ogólne z fizyką budowli | RB-N1-18-W34 | 80 | | | | | | | | | RB-N1-18-W34-A | 5 | 0 | 20 | 4 | | 16 | | RB-N1-18-W34-B | 5 | 1 | 20 | 4 | | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Geologia inżynierska i mechanika gruntów | RB-N1-18-W40 | 40 | | | | | | | | | | | | | | | | | RB-N1-18-W40-A3 | 3 | 0 | 10 | | | 10 | | | RB-N1-18-W40-A4 | 3 | 1 | 10 | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | Materiały budowlane | RB-N1-18-W06 | 50 | | | | | | | | | RB-N1-18-W06-6 | 5 | 1 | 16 | 4 | 10 | | | RB-N1-18-W06-7 | 3 | 0 | 10 | 3 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | Mechanika budowli | RB-N1-18-W12 | 78 | | | | | | | | | | | | | | | | | RB-N1-18-W12-16 | 5 | 0 | 16 | 1 | 3 | 18 | | RB-N1-18-W12-17 | 5 | 1 | 20 | 1 | 7 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Konstrukcje betonowe | RB-N1-18-W0A | 74 | | | | | | | | | | | | | | | | | RB-N1-18-W0A-AB | 5 | 0 | 20 | 2 | | 12 | | RB-N1-18-W0A-AC | 5 | 1 | 20 | 2 | | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | Konstrukcje metalowe | RB-N1-18-W0C | 50 | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-W0C-AD | 4 | 0 | 15 | 1 | | 14 | | RB-N1-18-W0C-AE | 4 | 1 | 10 | 2 | | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | Konstrukcje murowe i drewniane | RB-N1-18-W0D | 30 | | | | | | | | | | | | | | | | | RB-N1-18-W0D-AF | 2 | 0 | 10 | 1 | | 7 | | RB-N1-18-W0D-B0 | 1 | 0 | 5 | 2 | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | Konstrukcje specjalne | RB-N1-18-W0E | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-W0E-B1 | 3 | 0 | 16 | 2 | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | Fundamentowanie | RB-N1-18-W15 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-W15-1B | 3 | 0 | 10 | | 8 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | Technologia, ekonomika i organizacja | RB-N1-18-W11 | 86 | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-W11-13 | 5 | 0 | 22 | 2 | | 22 | | RB-N1-18-W11-14 | 5 | 1 | 20 | 2 | 4 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | Budownictwo komunikacyjne | RB-N1-18-W33 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-W33-7E | 4 | 0 | 20 | | | 10 | | RB-N1-18-W33-3 | 1 | 0 | | | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | Infrastruktura komunalna i instalacje budowlane | RB-N1-18-W14 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-W14-1A | 2 | 0 | 8 | | | 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | Mosty | RB-N1-18-W42 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-W42-A7 | 2 | 0 | 13 | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | Podstawy BIM | RB-N1-18-W0F | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-W0F-B2 | 2 | 0 | 10 | | 10 | | | | | | | | | | | | | |
| 28 | Prawo w budownictwie | RB-N1-18-W1C | 20 | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-W1C-B3 | 1 | 0 | 6 | | | | | | | | | | | | | | | | | | | RB-N1-18-W1C-22 | 1 | 0 | 4 | 2 | | | | 8 | | | | | | | | | | | | |
| S | **Przedmioty specjalistyczne** | | **638** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S23-33 | 3 | 0 | 10 | 2 | 8 | | | RB-N1-18-S23-CC | 5 | 1 | 12 | 4 | | 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | Technologia betonu i prefabrykatów | RB-N1-18-S23 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | Technologia wykonywania konstrukcji geotechnicznych | RB-N1-18-S28 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S28-38 | 1 | 0 | | | | | | 10 | | | | | | | | | | | | |
| 31 | Realizacja przedsięwzięć budowlanych | RB-N1-18-S6C | 80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S6C-CD | 3 | 0 | 10 | 2 | 8 | | | RB-N1-18-S6C-CE | 6 | 1 | 20 | 2 | 4 | 14 | | RB-N1-18-S6C-CF | 3 | 0 | 6 | 4 | | 4 | 6 | | | | | | | | | | | | | | | | | | | | | | |
| 32 | Podstawy eksploatacji obiektów budowlanych | RB-N1-18-S2A | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S2A-11 | 2 | 0 | 10 | | 4 | | | RB-N1-18-S2A-12 | 3 | 0 | 18 | 4 | | 10 | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | Zasilanie obiektów budowlanych | RB-N1-18-S3D | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S3D-D0 | 2 | 0 | 10 | 2 | | 10 | | RB-N1-18-S3D-D1 | 4 | 0 | 16 | 2 | | 10 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | Przedsiębiorstwo na rynku budowlanym | RB-N1-18-S2C | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S2C-3C | 3 | 0 | 12 | 4 | | 14 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | Utrzymanie obiektów budowlanych | RB-N1-18-S27 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S27-37 | 8 | 1 | 30 | 4 | | 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | Ochrona przeciwpożarowa w budownictwie | RB-N1-18-S0B | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S0B-1A | 1 | 0 | 4 | | | 4 | 2 | |
| 37 | Historia budownictwa i architektury | RB-N1-18-S79 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S79-26 | 1 | 0 | 4 | | | | 6 | |
| 38 | Opcja W1 (dwa do wyboru) 8) | | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Bridges to Future | RB-N1-18-S73 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S73-07 | | | | | | | | | | | | | | | | | | |
| | Advanced Computer Science Tools in Civil Engineering | RB-N1-18-S74 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S74-D8 | | | | | | | | | | | | | | | | | | |
| | Review of Famous World's Structures | RB-N1-18-S54 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S54-77 | | | | | | | | | | | | | | | | | | |
| | Selected Geotechnical Problems in Civil Engineering | RB-N1-18-S77 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S77-D8 | | | | | | | | | | | | | | | | | | |
| | Vibraton of Building Structures | RB-N1-18-S7B | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S7B-E0 | | | | | | | | | | | | | | | | | | |
| | Selected Steel and Steel-concrete Composite Structures | RB-N1-18-S7D | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S7D-E2 | | | | | | | | | | | | | | | | | | |
| | Computer Simulations in Buildings Operation | RB-N1-18-S7C | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S7C-E1 | | | | | | | | | | | | | | | | | | |
| 39 | Opcja W2 (dwa do wyboru) 8) | | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Bezpieczeństwo pożarowe budowli i modelowanie konstrukcji w | RB-N1-18-S76 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S76-DA | | | | | | | | | | | | | | | | | | |
| | Hydrologia | RB-N1-18-S78 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S78-DC | | | | | | | | | | | | | | | | | | |
| | Działalność gospodarcza | RB-N1-18-S08 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S08-17 | | | | | | | | | | | | | | | | | | |
| | Nowoczesne technologie wzmacniania konstrukcji | RB-N1-18-S7F | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S7F-E4 | | | | | | | | | | | | | | | | | | |
| | Modelowanie 3D | RB-N1-18-S80 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S80-E5 | | | | | | | | | | | | | | | | | | |
| | Wizualizacja obiektów budowlanych | RB-N1-18-S81 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S81-E6 | | | | | | | | | | | | | | | | | | |
| 40 | Praktyka zawodowa 4) | RB-N1-18-S6D | 165 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S6D-D2 | 26 | 0 | | 165 | | | |
| 41 | Projekt inżynierski 24) | RB-N1-18-S56 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | RB-N1-18-S56-7E | 10 | 0 | | | | 45 | |
| P | **Podsumowanie** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1942 | | 30 | 2 | 234 | | | | | | 30 | 3 | 260 | | | | | | 30 | 1 | 257 | | | | | | 30 | 3 | 254 | | | | | | 30 | 2 | 244 | | | | | | 30 | 4 | 260 | | | | | | 22 | 0 | 203 | | | | | | 38 | 0 | 230 | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | IW | 190 | | | | | | | | IW | 44 | | | | | | | | IW | 65 | | | | | | | | IW | 0 | | | | |
| | **Podsumowanie** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | S | 54 | | | | | | | | S | 216 | | | | | | | | S | 138 | | | | | | | | S | 230 | | | | |
| | Liczba ECTS - przedmioty inne | 15,0% | 36 | | 16 | | | | | | | | 7 | | | | | | | | 3 | | | | | | | | 2 | | | | | | | | 2 | | | | | | | | 2 | | | | | | | | 4 | | | | | | | | 0 | | | | | |
| | Liczba ECTS - przedmioty wspólne | 47,9% | 115 | | 14 | | | | | | | | 23 | | | | | | | | 27 | | | | | | | | 28 | | | | | | | | 20 | | | | | | | | 1 | | | | | | | | 2 | | | | | | | | 0 | | | | | |
| | Liczba ECTS - przedmioty specjalnościowe | 37,1% | 89 | | 0 | | | | | | | | 0 | | | | | | | | 0 | | | | | | | | 0 | | | | | | | | 8 | | | | | | | | 27 | | | | | | | | 16 | | | | | | | | 38 | | | | | |
| | Suma punktów ECTS | | **240** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Liczba godzin - przedmioty inne | 21,6% | 420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Liczba godzin - przedmioty wspólne | 45,5% | 884 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Liczba godzin - przedmioty specjalnościowe | 32,9% | 638 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Suma godzin dydaktycznych | | **1942** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Suma egzaminów | | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Załącznik E.2 | |
|---|---|
| Plan studiów I stopnia - studia niestacjonarne (j. pol.) | |
| Kierunek: | **Budownictwo** |
| Moduł: | **Inżynieria Procesów Budowlanych** |

# Efekty kształcenia

Uczelnia: Politechnika Śląska
Wydział: Budownictwa
Kierunek: Budownictwo

Moduł (specjalność): **Inżynieria Procesów Budowlanych**

| | 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 | 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 | 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 | 4 | 6 | 4 | 5 | 9 | 13 | 6 | 3 | 4 | 4 | 1 | 3 | 2 | 7 | 1 | 3 | 6 | 1 | 1 | 0 | 1 | 4 | 7 | 6 | 5 | 8 | 2 | 8 | 3 | 3 | 1 | 1 | 2 | 4 | 5 | 2 | 3 | 8 | 1 | 4 | 4 | 2 | 2 | 0 | 15 | 17 | 6 | 1 | 2 | 7 | 5 | 3 | 4 | 2 | 0 | 1 |
| Przedmioty S | 2 | 3 | 2 | 3 | 6 | 7 | 6 | 4 | 4 | 0 | 1 | 1 | 3 | 6 | 6 | 4 | 7 | 1 | 3 | 0 | 1 | 6 | 5 | 2 | 0 | 7 | 1 | 1 | 1 | 2 | 1 | 0 | 2 | 1 | 4 | 2 | 6 | 8 | 0 | 2 | 7 | 3 | 1 | 0 | 10 | 7 | 10 | 2 | 3 | 8 | 6 | 5 | 3 | 1 | 0 | 1 |
| Razem | 6 | 9 | 6 | 8 | 15 | 20 | 12 | 7 | 8 | 4 | 2 | 4 | 5 | 13 | 7 | 7 | 13 | 2 | 4 | 0 | 2 | 10 | 12 | 8 | 5 | 15 | 3 | 9 | 4 | 5 | 2 | 1 | 4 | 5 | 9 | 4 | 9 | 16 | 1 | 6 | 11 | 5 | 3 | 0 | 25 | 24 | 16 | 3 | 5 | 15 | 11 | 8 | 7 | 3 | 0 | 2 |
| **Przedmioty ogólne** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Matematyka | +++ | | | | | | | | | | | | | | | | | | | | | | | | | | +++ | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | |
| Fizyka | | | | | | | | | | | | | | | | | | +++ | | | | | | | | | | | | | +++ | | | | | | | | | | | | | | | | | | | + | | | | | | |
| Chemia | | | | | | | | | | | | ++ | | ++ | | | | | +++ | | | | | | | | | | | | | | | +++ | | | | | | | | | ++ | | | ++ | | | | | | | | | | |
| Język angielski | | | | | | | | | | | | | | | | | | | | | +++ | | | | | | | | | | | | | | | | | | +++ | | | | | | | | | | | | | | | | | +++ |
| Historia sztuki | | | | | | | | | | | | | | + | | | + | | | | | ++ | | | | | | | | | | | | | | | | ++ | | | | | | | | | | | | | +++ | | | | |
| Ergonomia i bezpieczeństwo pracy | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | + | | | | | + | | | | | | + | ++ | | | | | | |
| **Przedmioty wspólne** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Podstawy technologii informacyjnej | | | | | +++ | | | | | | | | | | | | | | | | | | | | | ++ | | | | | | | | | | | | +++ | | | | | | | | | + | | | | | | + | | ++ | | | |
| Podstawy projektowania | | | | | | + | + | | | | | | | | | | | | | | | | +++ | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | |
| Podstawy urbanistyki i architektury | | ++ | + | | | ++ | | | | + | | | | | | | + | | | | | + | | | | ++ | | | | | | | | | | +++ | | | + | | ++ | | | | | +++ | ++ | | | | | | ++ | | | | |
| Geometria wykreślna i rysunek techniczny | ++ | +++ | ++ | | | | | | | | | | | | | | | | | | | +++ | | | | | | ++ | | | | | | | | +++ | | | ++ | | | | | | | +++ | | ++ | | | | | | | | | |
| Mechanika teoretyczna | ++ | | | +++ | +++ | | | | | | | | | | | | | | | | | | | | +++ | | | | | | | | | | | | | | | | | | | | | +++ | ++ | | | | | | | | | | |
| Geodezja | | ++ | +++ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | +++ | | | | +++ | | +++ | | + | | | | ++ | | | | | | ++ | | | | | |
| Wytrzymałość materiałów | + | | | +++ | ++ | | | | | | | | | | | | | | | | | | | | ++ | ++ | | ++ | | | | | | | | | | | | | | | | | | ++ | | | | | | | | | | | |
| Budownictwo ogólne z fizyką budowli | | ++ | | | | ++ | | + | ++ | | | | +++ | | | | | | | | | | | | | | | ++ | + | ++ | | | +++ | | ++ | | | | | ++ | ++ | | | | ++ | ++ | | | | ++ | ++ | | | | | |
| Geologia inżynierska i mechanika gruntów | | | | ++ | | ++ | | | | | +++ | | | | | | + | | | | | | | | | | | | | | | | | +++ | | | + | | | | | | | | | +++ | +++ | | | | | | | | | | |
| Materiały budowlane | | | | | | | | | | | | +++ | | +++ | | | ++ | | | | | | | | | + | | | | | | | | +++ | | | | | | | ++ | | +++ | | | | ++ | ++ | | | | | | | | | |
| Mechanika budowli | | | | +++ | +++ | + | | ++ | | | | | | | | | | | | | | | | +++ | +++ | + | ++ | | | | | +++ | | | | | | | | | | | | | +++ | +++ | | | | | | | | | | |
| Konstrukcje betonowe | | | | | ++ | +++ | ++ | | | | | | | | | | | | | | | | ++ | ++ | + | | | +++ | | | | | | | | | | | | | | | | | | +++ | | | | | | | | ++ | | | |
| Konstrukcje metalowe | | | | | +++ | +++ | ++ | | | | | | | | | | | | | | | | ++ | ++ | ++ | | | +++ | | | | | | | | | | | | | | | | | + | ++ | | | | | | | ++ | | | |
| Konstrukcje murowe i drewniane | | | | | + | +++ | +++ | | | | | | | | | | | | | | | | +++ | ++ | | | | +++ | | | | | | | | | | | | | | | | | + | +++ | | | | + | | | ++ | | | |
| Konstrukcje specjalne | | | | | + | ++ | +++ | | | | | | | | | | | | | | | | ++ | +++ | | | | +++ | | | | | | | | | | | | | | | | | | +++ | | | | | ++ | | ++ | | | |
| Fundamentowanie | | | | | | +++ | | ++ | | | | | | | | | | | | | | | | | | | | | | ++ | | | | +++ | | | | | | | | | | | +++ | ++ | | | | | | | | | | |
| Technologia, ekonomika i organizacja | | | | | | | | | | | | | | + | +++ | ++ | +++ | | | | | | | | | | | | | | | | | | | +++ | ++ | | | | +++ | | | | + | | | | ++ | | | | | | | |
| Budownictwo komunikacyjne | | ++ | | | | ++ | | | | +++ | | | ++ | | | | | | | | | | | | | ++ | | ++ | | ++ | | | ++ | | | | +++ | | | | | | | | | ++ | ++ | | | | ++ | ++ | | | | | |
| Infrastruktura komunalna i instalacje budowlane | | | ++ | | | | | | ++ | ++ | | | | ++ | | | | | | | | | +++ | | | +++ | | | ++ | | | | | | +++ | | | ++ | | | ++ | | | | ++ | + | ++ | | | + | | | | | | |
| Mosty | | | | ++ | ++ | + | + | | + | + | | ++ | | + | | | + | | | | | +++ | + | | | | | +++ | | | | | | | | | | +++ | | | | | | | | + | | + | | | ++ | ++ | | | | | |
| Podstawy BIM | | ++ | | | | | | | ++ | | | | | + | | | | | | | | | | +++ | | +++ | | | | | | | | | | | | | | | | | | | +++ | | +++ | | | | | | | | | |
| Prawo w budownictwie | | | | | | ++ | | | | | | | | | | ++ | | | | | | | | | | | | | | | | | | | | | | | ++ | | +++ | | | | | | ++ | | | | | | | | ++ | | |
| **Przedmioty specjalistyczne** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Technologia betonu i prefabrykatów | | | | | | | | | | | | ++ | | ++ | +++ | | | | | | | | | | | | | | | | | | | +++ | | | ++ | | | | +++ | | | | | | ++ | | + | | | | | | | | |
| Technologia wykonywania konstrukcji geotechnicznych | | | | | | | | +++ | ++ | | | | | | | | ++ | | | | | ++ | | | | | | | | +++ | | | | | | | | ++ | | | | | | | +++ | | +++ | | | | | | | | | |
| Realizacja przedsięwzięć budowlanych | | | | | | | | | | | | | | | +++ | +++ | + | | | | | | | | | | | | | | | | | | | | | | | | ++ | + | | | + | | | | | | ++ | | | | | |
| Podstawy eksploatacji obiektów budowlanych | | | | | | ++ | | | | | | | +++ | | | | | | + | | | + | | | | | | | | | + | | ++ | | | | | | | | ++ | | | | | | | | ++ | | | | ++ | | | |
| Zasilanie obiektów budowlanych | | ++ | | | | ++ | | | | | | | + | | | | + | | | | | | | | | | | | | | | | +++ | | ++ | + | | + | | + | | | | | ++ | ++ | ++ | | | ++ | | | | | | |
| Przedsiębiorstwo na rynku budowlanym | | | | | | | | | | | | | | | +++ | +++ | + | | | | | | | | | | | | | | | | | | | | | ++ | | | ++ | + | | | + | | | | | | | ++ | | | | | |
| Utrzymanie obiektów budowlanych | | | | | | ++ | | | | | | | | ++ | | | | | + | | | | | | | ++ | | | | | | | | | | | | + | | + | ++ | | | | ++ | ++ | | | | ++ | ++ | +++ | | | | |
| Ochrona przeciwpożarowa w budownictwie | | | | | | | | | | | | | | | +++ | | +++ | | ++ | | | | | | | | | | | | | | | | | | | ++ | | | ++ | | + | | | + | +++ | | | | | | | | | |
| Historia budownictwa i architektury | | | | | | | | + | | | | | | ++ | | | | | | | | ++ | | | | | | | | | | | | | | | | | ++ | | | | | | | | | | | | | ++ | ++ | | | | |
| Opcja W1 (dwa do wyboru) 8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | +++ | ++ | | | | | | | | | | | | | | | | | | | | +++ | | | | | | | | | | | | ++ | | | | | | | | | +++ | ++ | | | | | | | | | |
| Opcja W2 (dwa do wyboru) 8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bezpieczeństwo pożarowe budowli i modelowanie konstrukcji w | | | | | + | | + | | | | | | | | | | | | | | | | | + | | + | | | | | | | | | | | | | | | | | | | | | + | | | | + | | | | | | |
| Hydrologia | ++ | | | | | | + | | | | | | | | | | + | | | | | | ++ | | | ++ | | | | | | | | | | | | | | | | | | | ++ | | ++ | | | | | | | | | |
| Działalność gospodarcza | | | | | | | | | | | | | | + | +++ | ++ | | | | | | | | | | | | | | | | | | | | +++ | ++ | | | | +++ | | | | + | | | | ++ | | | | | | | |
| Nowoczesne technologie wzmacniania konstrukcji | | | ++ | | | | ++ | | | | | | +++ | | | | | | | | | | | | | | | | | | | | | | | | | ++ | | | | | | | | | | +++ | | | | | | | | |
| Modelowanie 3D | | +++ | ++ | | | | ++ | | | | | | | | | | | | | | | | | | | | | +++ | ++ | | | | | | | ++ | | | + | | | | | | | +++ | | | +++ | | | | +++ | | | |
| Wizualizacja obiektów budowlanych | | + | | | ++ | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | ++ | | | + | | | | | | | | | | | | | +++ | ++ | | | |
| Praktyka zawodowa 4) | | | | | | | | | | | | | | +++ | ++ | ++ | | | | | | + | | | | | | | | | | | | | | +++ | | +++ | | | | | +++ | | | +++ | +++ | | | +++ | | | | | | |
| Projekt inżynierski 24) | | | | +++ | | | | +++ | | | | | | | | | | | | | +++ | | +++ | | | | | | | +++ | | | | | | | | | | | | | | | | | +++ | +++ | | | | +++ | +++ | | +++ | +++ | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Załącznik C.2 | |
|---|---|
| Plan studiów I stopnia - studia niestacjonarne (j. pol.) | |
| Kierunek: | **Budownictwo** |
| Moduł: | **Inżynieria Procesów Budowlanych** |