Politechnika Poznańska
Wydział Budownictwa i Inżynierii Środowiska

**Kierunek: BUDOWNICTWO**
Plan studiów niestacjonarnych I stopnia

Zatwierdzony uchwałą RW z dnia 29 marca 2019 r.
Obowiązuje od roku akademickiego 2019/2020

| L.p. | Nazwa przedmiotu | Ogólnie | | | | | | Semestr I | | | | | Semestr II | | | | | Semestr III | | | | | Semestr IV | | | | | Semestr V | | | | | Semestr VI | | | | | Semestr VII | | | | | Semestr VIII | | | | | Semestr IX | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | E | O | W | C | L | P | W | C | L | P | E | W | C | L | P | E | W | C | L | P | E | W | C | L | P | E | W | C | L | P | E | W | C | L | P | E | W | C | L | P | E | W | C | L | P | E | W | C | L | P | E |
| 1 | MATEMATYKA | 2 | 56 | 36 | 20 | 0 | 0 | 18 | 10 | | | 3 | 18 | 10 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FIZYKA | 1 | 20 | 10 | 10 | 0 | 0 | 10 | 10 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | PODSTAWY MECHANIKI | 1 | 54 | 18 | 18 | 0 | 18 | 18 | 18 | | 18 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | GEOMETRIA WYKREŚLNA | 1 | 20 | 10 | 10 | 0 | 0 | 10 | 10 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | GRAFIKA INŻYNIERSKA I CAD | | 36 | 0 | 0 | 18 | 18 | | | 18 | 18 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | WPROWADZENIE DO PROJEKTOWANIA BUDOWLI | | 10 | 10 | 0 | 0 | 0 | 10 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **7** | PRZEDMIOT OBIERALNY HUMANISTYCZNO-SPOŁECZNY I | | 18 | 18 | 0 | 0 | 0 | 18 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **8** | PRZEDMIOT OBIERALNY HUMANISTYCZNO-SPOŁECZNY II | | 10 | 10 | 0 | 0 | 0 | 10 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | CHEMIA BUDOWLANA | 1 | 28 | 18 | 0 | 10 | 0 | | | | | | 18 | | 10 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | PODSTAWY GEODEZJI | | 28 | 18 | 0 | 10 | 0 | | | | | | 18 | | 10 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | PODSTAWY GEOLOGII | | 20 | 10 | 0 | 10 | 0 | | | | | | 10 | | 10 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | MATERIAŁY BUDOWLANE | 1 | 36 | 18 | 0 | 18 | 0 | | | | | | 18 | | 18 | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | WYTRZYMAŁOŚĆ MATERIAŁÓW | 1 | 86 | 28 | 28 | 10 | 20 | | | | | | 18 | 18 | | 10 | 7 | 10 | 10 | 10 | 10 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **14** | **PO I** : PROJEKTOWANIE ARCHITEKTONICZNE / PROJEKTOWANIE URBANISTYCZNE | | 10 | 10 | 0 | 0 | 0 | | | | | | | | | | | 10 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | MECHANIKA GRUNTÓW | | 30 | 10 | 0 | 20 | 0 | | | | | | | | | | | 10 | | 20 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **16** | PRZEDMIOT OBIERALNY HUMANISTYCZNO-SPOŁECZNY III | | 18 | 18 | 0 | 0 | 0 | | | | | | | | | | | 18 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | TECHNOLOGIA BETONU | 1 | 20 | 10 | 0 | 10 | 0 | | | | | | | | | | | 10 | | 10 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | FIZYKA BUDOWLI | 1 | 28 | 18 | 10 | 0 | 0 | | | | | | | | | | | 18 | 10 | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | PRAKTYKA GEODEZYJNA | | 0 | 2 ZJAZDY (30 H) | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | JĘZYK OBCY | 1 | 120 | 0 | ## | 0 | 0 | | | | | | | | | | | | 30 | | | 2 | | 30 | | | 2 | | 30 | | | 2 | | 30 | | | 3 | | | | | | | | | | | | | | | | |
| 21 | FUNDAMENTOWANIE | 1 | 30 | 10 | 10 | 0 | 10 | | | | | | | | | | | | | | | | 10 | 10 | | 10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | KONSTRUKCJE MUROWE | | 20 | 10 | 10 | 0 | 0 | | | | | | | | | | | | | | | | 10 | 10 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | TECHNOLOGIA ROBÓT BUDOWLANYCH | 1 | 38 | 18 | 10 | 0 | 10 | | | | | | | | | | | | | | | | 18 | 10 | | 10 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| **24** | **PO II** :KONSTRUKCJE PREFABRYKOWANE / PODSTAWY PRODUKCJI PREFABRYKATÓW | | 20 | 10 | 0 | 0 | 10 | | | | | | | | | | | | | | | | 10 | | | 10 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | TECHNOLOGIA MATERIAŁÓW DROGOWYCH | | 20 | 10 | 0 | 10 | 0 | | | | | | | | | | | | | | | | 10 | | 10 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | MECHANIKA BUDOWLI | 1 | 60 | 20 | 20 | 0 | 20 | | | | | | | | | | | | | | | | 10 | 10 | | 10 | 3 | 10 | 10 | | 10 | 4 | | | | | | | | | | | | | | | | | | | | |
| 27 | BUDOWNICTWO OGÓLNE | 1 | 66 | 28 | 10 | 0 | 28 | | | | | | | | | | | | | | | | 18 | | | 18 | 4 | 10 | 10 | | 10 | 3 | | | | | | | | | | | | | | | | | | | | |
| 28 | METODY OBLICZENIOWE | | 28 | 10 | 0 | 18 | 0 | | | | | | | | | | | | | | | | | | | | | 10 | | 18 | | 4 | | | | | | | | | | | | | | | | | | | | |
| 29 | PRAWO BUDOWLANE | | 10 | 10 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | 10 | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 30 | ORGANIZACJA I PLANOWANIE BUDOWY | | 36 | 18 | 0 | 0 | 18 | | | | | | | | | | | | | | | | | | | | | 18 | | | 18 | 4 | | | | | | | | | | | | | | | | | | | | |
| 31 | PROBLEMY BHP I BOZiŚ NA BUDOWIE | | 10 | 10 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | 10 | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| **32** | **PO III** :PODSTAWY ZARZĄDZANIA JAKOŚCIĄ / EFEKTYWNOŚĆ INWESTYCJI BUDOWLANYCH | | 20 | 10 | 0 | 0 | 10 | | | | | | | | | | | | | | | | | | | | | 10 | | | 10 | 2 | | | | | | | | | | | | | | | | | | | |
| 33 | PRAKTYKA GEOTECHNICZNA | | 0 | 2 ZJAZDY (30 H) | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 34 | KONSTRUKCJE BETONOWE | 1 | 84 | 36 | 20 | 18 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | 10 | | 10 | 5 | 18 | 10 | 18 | | 4 | | | | | | | | | | | |
| 35 | KONSTRUKCJE METALOWE | 1 | 84 | 36 | 20 | 18 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | 10 | | 10 | 5 | 18 | 10 | 18 | | 4 | | | | | | | | | | | |
| 36 | KOMPUTEROWE WSPOMAGANIE PROJEKTOWANIA | | 36 | 18 | 0 | 18 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | 18 | | 4 | | | | | | | | | | | | | | | | |
| 37 | KONSTRUKCJE DREWNIANE | 1 | 38 | 18 | 10 | 0 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | 10 | | 10 | 4 | | | | | | | | | | | | | | | | |
| 38 | BIM - EFEKTYWNE WSPARCIE PROCESU BUDOWLANEGO | | 20 | 10 | 0 | 10 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | | 10 | | 2 | | | | | | | | | | | | | | | | |
| 39 | BUDOWNICTWO PRZEMYSŁOWE | 1 | 36 | 18 | 0 | 0 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | | 18 | 4 | | | | | | | | | | | |
| 40 | BUDOWNICTWO DROGOWE | 1 | 84 | 36 | 10 | 10 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | 10 | | 18 | 4 | 18 | | 10 | 10 | 5 | | | | | |
| 41 | BUDOWNICTWO MOSTOWE | 1 | 84 | 36 | 10 | 10 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | 10 | 10 | 4 | 18 | 10 | | 18 | 5 | | | | | |
| 42 | TECHNICZNE WYPOSAŻENIE BUDOWLI | | 28 | 18 | 0 | 0 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | | 10 | 3 | | | | | | | | | | | |
| 43 | KOSZTORYSTOWANIE | 1 | 28 | 18 | 0 | 0 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | | 10 | 4 | | | | | | |
| 44 | BUDOWNICTWO KOLEJOWE | | 46 | 18 | 0 | 10 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | 10 | 18 | 5 | | | | | | |
| 45 | PRAKTYKA ZAWODOWA | | 0 | 5 tygodni | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| **46** | PRZEDMIOT OBIERALNY A | | 36 | 18 | 0 | 0 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | | 18 | 4 |
| **47** | PRZEDMIOT OBIERALNY B | | 36 | 18 | 0 | 0 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | | 18 | 4 |
| 48 | SEMINARIUM DYPLOMOWE | | 18 | 0 | 18 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | | 3 |
| 49 | PRZYG. PRACY DYPL. Z EL. BADAŃ NAUKOWYCH | | 5 | 0 | 5 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | | | 15 |
| | | 22 | | egzamin | | | | 2 | | | | | 2 | | | | | 3 | | | | | 3 | | | | | 2 | | | | | 3 | | | | | 3 | | | | | 1 | | | | | 0 | | | | |
| | | ETCS | GODZ | 732 | ## | ## | ## | 94 | 48 | 18 | 36 | ETCS | ## | 28 | 48 | 10 | ETCS | 76 | 50 | 40 | 10 | ETCS | 86 | 70 | 10 | 58 | ETCS | 78 | 50 | 18 | 48 | ETCS | 82 | 60 | 28 | 30 | ETCS | ## | 30 | 46 | 56 | ETCS | 72 | 10 | 20 | 56 | ETCS | 36 | 23 | 0 | 36 | ETCS |
| | RAZEM: | **210** | 1669 | | | | | 196 | | | | **23** | 186 | | | | **23** | 176 | | | | **23** | 224 | | | | **23** | 194 | | | | **23** | 200 | | | | **23** | 240 | | | | **23** | 158 | | | | **23** | 95 | | | | **26** |

**PRZEDMIOT OBIERALNY HUMANISTYCZNO-SPOŁECZNY I :**
1. HISTORIA ARCHITEKTURY I ZABYTKI TECHNI
2. HISTORIA URBANISTYKI I TRANSPORTU

**PRZEDMIOT OBIERALNY HUMANISTYCZNO-SPOŁECZNY II :**
1. FILOZOFIA ZRÓWNOWAŻONEGO ROZWOJU
2. ROZWÓJ MYSLI PROJEKTOWEJ

**PRZEDMIOT OBIERALNY HUMANISTYCZNO-SPOŁECZNY III :**
1. PRAWNE ASPEKTY W NORMALIZACJI
2. NEGOCJACJE I UMOWY

**PRZEDMIOTY OBIERALNE A/A/B :**
1. BUDOWNICTWO OGÓLNE III
2. KONSTRUKCJE BETONOWE III
3. KONSTRUKCJE METALOWE III
4. INŻYNIERIA PRZEDSIĘWZIĘĆ BUDOWLANYCH
5. BUDOWNICTWO DROGOWE III
6. BUDOWNICTWO MOSTOWE III
7. BUDOWNICTWO KOLEJOWE II
8. TEORIA KONSTRUKCJI