Politechnika Poznańska
Wydział Budownictwa i Inżynierii Środowiska

# Kierunek: INŻYNIERIA ŚRODOWISKA

Plan studiów niestacjonarnych I stopnia

Zatwierdzony uchwałą RW z dnia 13 września 2013
Obowiązuje od roku akademickiego 2013/2014

| L.p. | Kod | 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 | 80 | 40 | 40 | 0 | 0 | 20 | 20 | | | 6 | 20 | 20 | | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | GEOMETRIA WYKR. I GRAFIKA INŻ. | | 60 | 24 | 8 | 0 | 28 | 24 | 8 | | 14 | 5 | | | | 14 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | CHEMIA ŚRODOWISKA | 1 | 60 | 26 | 18 | 16 | 0 | 14 | 18 | | | 6 | 12 | | 16 | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | EKONOMIA I ZARZĄDZANIE | | 20 | 20 | 0 | 0 | 0 | 20 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | JĘZYK OBCY | | 80 | 0 | 80 | 0 | 0 | | 40 | | | 4 | | 20 | | | 2 | | 20 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | KOMPUTEROWE WSPOMAG. PROJEKT. | | 74 | 30 | 0 | 44 | 0 | | | | | | 15 | | 24 | | 2 | 15 | | 20 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | FIZYKA | 1 | 30 | 15 | 15 | 0 | 0 | | | | | | 15 | 15 | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | BIOLOGIA ŚROD. I EKOLOGIA | 1 | 40 | 24 | 0 | 16 | 0 | | | | | | | | | | | 24 | | 16 | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | KONSTRUKCJE MECHANICZNE | 1 | 50 | 24 | 16 | 0 | 10 | | | | | | | | | | | 14 | 16 | | | 6 | 10 | | | 10 | 4 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | MECHANIKA PŁYNÓW | 1 | 50 | 26 | 12 | 12 | 0 | | | | | | | | | | | 14 | 12 | | | 4 | 12 | | 12 | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | PODSTAWY GEODEZJI | 1 | 30 | 20 | 0 | 10 | 0 | | | | | | | | | | | 20 | | 10 | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | WYCHOWANIE FIZYCZNE | | 6 | 0 | 6 | 0 | 0 | | | | | | | | | | | | 3 | | | 0 | | 3 | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | PODSTAWY GEOLOGII I GEOTECHNIKI | | 30 | 15 | 0 | 0 | 15 | | | | | | | | | | | | | | | | 15 | | | 15 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | BUDOWNICTWO I KONSTR. INŻ. | 1 | 50 | 30 | 0 | 0 | 20 | | | | | | | | | | | | | | | | 15 | | | 10 | 4 | 15 | | | 10 | 5 | | | | | | | | | | | | | | | | | |
| 15 | | TECHNIKA CIEPLNA | 1 | 50 | 20 | 20 | 10 | 0 | | | | | | | | | | | | | | | | 20 | 20 | 10 | | 6 | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | MATERIAŁOZNAWSTWO | | 40 | 20 | 0 | 20 | 0 | | | | | | | | | | | | | | | | 20 | | 20 | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | INSTALACJE SANITARNE I POŻAROWE | | 40 | 20 | 10 | 0 | 10 | | | | | | | | | | | | | | | | | | | | | 20 | 10 | | 10 | 5 | | | | | | | | | | | | | | | | | |
| 18 | | INŻYNIERIA ELEKTRYCZNA | | 30 | 22 | 8 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | 22 | 8 | | | 4 | | | | | | | | | | | | | | | | | |
| 19 | | ZAOPATRZENIE W WODĘ | 1 | 40 | 20 | 10 | 0 | 10 | | | | | | | | | | | | | | | | | | | | | 20 | 10 | | 10 | 5 | | | | | | | | | | | | | | | | | |
| 20 | | OGRZEWNICTWO | 1 | 90 | 46 | 14 | 0 | 30 | | | | | | | | | | | | | | | | | | | | | 20 | 6 | | 14 | 5 | 26 | 8 | | 16 | 5 | | | | | | | | | | | |
| 21 | | TECHNOLOGIA I ORGANIZACJA ROBÓT | | 30 | 20 | 0 | 0 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | | | 10 | 4 | | | | | | | | | | | |
| 22 | | ODPROWADZANIE ŚCIEKÓW | 1 | 40 | 20 | 10 | 0 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 10 | | 10 | 5 | | | | | | | | | | | |
| 23 | | TECHNOLOGIA WODY | 1 | 40 | 20 | 0 | 0 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | | | 20 | 5 | | | | | | | | | | | |
| 24 | | WENTYLACJA I KLIMATYZACJA | 1 | 100 | 50 | 20 | 0 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 10 | | 10 | 5 | 30 | 10 | | 20 | 7 | | | | | | | |
| 25 | | CIEPŁOWNICTWO I GAZOWNICTWO | 1 | 60 | 30 | 10 | 0 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 10 | | 20 | 6 | | | | | | | |
| 26 | | URBANISTYKA I PLAN. PRZESTRZ. | | 20 | 10 | 10 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 | 10 | | | 4 | | | | | | | |
| 27 | | TECHNOLOGIA ŚCIEKÓW I ODPADÓW | 1 | 80 | 40 | 10 | 10 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 10 | | 10 | 7 | 20 | | 10 | 10 | 6 | | | |
| 28 | | GOSPODAERKA WODNA Z ELEM. HYDROLOGII | | 40 | 20 | 10 | 0 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 10 | | 10 | 5 | | | |
| 29 | | ELEMENTY AUTOMATYKI | | 30 | 20 | 0 | 10 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | | 10 | | 3 | | | |
| 30 | | ZARZĄDZANIE ŚRODOWISKOWE | | 20 | 20 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | | | | 2 | | | |
| 31 | | GOSPODARKA CIEPLNA I AUDYT | | 30 | 20 | 10 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 10 | | | 3 | | | |
| 32 | | INŻYNIERIA OCHRONY ATMOSFERY | 1 | 45 | 25 | 0 | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 25 | | 10 | 10 | 5 | | | |
| 33 | | PRZEDMIOT OBIERALNY I | | 30 | 20 | 10 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 10 | | | 3 |
| 34 | | PRZEDMIOT OBIERALNY II | | 30 | 20 | 10 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 | 10 | | | 3 |
| 35 | | SEMINARIUM DYPLOMOWE | | 15 | 0 | 15 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 2 |
| 36 | | PRZYG PRACY DYPLOMOWEJ | | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| 37 | | PRZYG DO EGZAMINU DYPLOM. | 18 | | egzamin | | | | 1 | | | | | 3 | | | | | 2 | | | | | 3 | | | | | 2 | | | | | 3 | | | | | 2 | | | | | 2 | | | | | | | | 2 |
| | | | ETCS | GODZ | 777 | 372 | 158 | 253 | 78 | 86 | 0 | 14 | ETCS | 62 | 55 | 40 | 14 | ETCS | 87 | 51 | 46 | 0 | ETCS | 92 | 23 | 42 | 35 | ETCS | 97 | 34 | 0 | 44 | ETCS | 106 | 28 | 0 | 66 | ETCS | 90 | 40 | 0 | 50 | ETCS | 125 | 20 | 30 | 30 | ETCS | 40 | 35 | 0 | 0 | ETCS |
| | | RAZEM: | 210 | 1560 | | | | | 178 | | | | 24 | 171 | | | | 24 | 184 | | | | 24 | 192 | | | | 24 | 175 | | | | 24 | 200 | | | | 24 | 180 | | | | 24 | 205 | | | | 24 | 75 | | | | 18 |

PRZEDMIOTY OBIERALNE:

1. Profil dyplomowania Zaopatrzenie w wodę
   - Diagnostyka i badania instalacji sanitarnych
   - Specjalne instalacje sanitarne
2. Profil dyplomowania Zaopatrzenie w ciepło
   - Diagnostyka i badania instalacji HVAC
   - Specjalne instalacje cieplne