# PLAN STUDIÓW

DLA KIERUNKU **GÓRNICTWO I GEOLOGIA - STUDIA I STOPNIA STACJONARNE INŻYNIERSKIE**

**SPECJALNOŚĆ: MASZYNY GÓRNICZE, BUDOWLANE I DROGOWE**

**Obowiązuje od 1.10.2019 r.**

## ROZKŁAD ZAJĘĆ

| Lp. | NAZWA PRZEDMIOTU | GODZINY | | | | | | ECTS - suma | ROZKŁAD ZAJĘĆ PROGRAMOWYCH NA SEMESTRY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Razem | w tym | | | | | | Semestr I | | | | | | Semestr II | | | | | | Semestr III | | | | | | Semestr IV | | | | | | Semestr V | | | | | | Semestr VI | | | | | | Semestr VII | | | | | |
| | | | WYKŁADY | ĆWICZENIA | LABORATORIA | PROJEKT | SEMINARIUM | | Liczba godzin w semestrze | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | W | Ć | L | P | S | ECTS | W | Ć | L | P | S | ECTS | W | Ć | L | P | S | ECTS | W | Ć | L | P | S | ECTS | W | Ć | L | P | S | ECTS | W | Ć | L | P | S | ECTS | W | Ć | L | P | S | ECTS |
| 1 | Ekonomia | 30 | 30 | 0 | 0 | 0 | 0 | 3 | 30 | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Górnictwo ogólne | 60 | 30 | 30 | 0 | 0 | 0 | 6 | 30E | 30 | | | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Inżynieria jakości | 30 | 30 | 0 | 0 | 0 | 0 | 3 | 30E | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Informatyka | 75 | 30 | 0 | 45 | 0 | 0 | 6 | 15 | | 15 | | | 3 | 15 | | 30 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Matematyka | 150 | 75 | 75 | 0 | 0 | 0 | 14 | 15 | 15 | | | | 4 | 30E | 30 | | | | 5 | 30E | 30 | | | | 5 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Bezpieczeństwo pracy i ergonomia | 30 | 30 | 0 | 0 | 0 | 0 | 2 | | | | | | | | | | | | | 30 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Prawo geologiczne i górnicze | 15 | 15 | 0 | 0 | 0 | 0 | 2 | | | | | | | | | | | | | 15 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Podstawy ochrony środowiska | 45 | 30 | 0 | 0 | 15 | 0 | 4 | 30 | | | 15 | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Socjologia | 30 | 30 | 0 | 0 | 0 | 0 | 3 | 30 | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Fizyka | 90 | 45 | 30 | 15 | 0 | 0 | 9 | 15 | 15 | | | | 2 | 15 | 15 | | | | 4 | 15 | | 15 | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Geologia ogólna | 60 | 30 | 0 | 30 | 0 | 0 | 6 | | | | | | | 30E | | 30 | | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Grafika inżynierska | 45 | 15 | 0 | 15 | 15 | 0 | 4 | | | | | | | 15 | | 15 | 15 | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Mechanika ogólna i wytrzymałość materiałów | 75 | 30 | 30 | 15 | 0 | 0 | 8 | | | | | | | 15 | 15 | | | | 4 | 15E | 15 | 15 | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Rysunek techniczny | 45 | 15 | 0 | 30 | 0 | 0 | 5 | | | | | | | 15 | | 15 | | | 2 | | | 15 | | | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Chemia i materiałoznawstwo | 60 | 30 | 0 | 30 | 0 | 0 | 4 | | | | | | | | | | | | | 30 | | 30 | | | 4 | | | | | | | | | | | | | | | | | | | | | | |
| 16 | Elektrotechnika ogólna | 45 | 30 | 0 | 15 | 0 | 0 | 5 | | | | | | | | | | | | | 30E | | 15 | | | 5 | | | | | | | | | | | | | | | | | | | | | | |
| 17 | Wychowanie fizyczne | 60 | 0 | 60 | 0 | 0 | 0 | 0 | | 30 | | | | 0 | | 30 | | | | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Język angielski | 120 | 0 | 0 | 120 | 0 | 0 | 8 | | | 30 | | | 2 | | | 30 | | | 2 | | | 30 | | | 2 | | | 30E | | | 2 | | | | | | | | | | | | | | | | |
| 19 | Mechanika górotworu | 30 | 15 | 0 | 15 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 3 | | | | | | | | | | | | | | | | |
| 20 | Eksploatacja złóż i geofizyka górnicza | 30 | 15 | 0 | 15 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 3 | | | | | | | | | | | | | | | | |
| 21 | Hydromechanika | 45 | 30 | 0 | 15 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | 30 | | 15 | | | 3 | | | | | | | | | | | | | | | | |
| 22 | Metaloznawstwo i materiały konstrukcyjne | 30 | 15 | 0 | 15 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 3 | | | | | | | | | | | | | | | | |
| 23 | Podstawy urabiania skał i technika strzelnicza | 30 | 30 | 0 | 0 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | 30 | | | | | 3 | | | | | | | | | | | | | | | | |
| 24 | Podstawy konstrukcji maszyn | 120 | 60 | 15 | 0 | 45 | 0 | 8 | | | | | | | | | | | | | | | | | | | 30E | | | 15 | | 3 | 30E | 15 | | 30 | | 5 | | | | | | | | | | |
| 25 | Mechanika i wytrzymałośc materiałów II | 105 | 45 | 0 | 15 | 45 | 0 | 4 | | | | | | | | | | | | | | | | | | | 45E | | 15 | 45 | | 4 | | | | | | | | | | | | | | | | |
| 26 | Technologia budowy maszyn | 30 | 15 | 0 | 15 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 3 | | | | | | | | | | |
| 27 | Praktyka zawodowa | | | | | | | 6 | | | | | | | | | | | | | | | | | | | 4 tygodnie | | | | | 6 | | | | | | | | | | | | | | | | |
| 28 | Geodezja górnicza | 30 | 15 | 0 | 15 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 3 | | | | | | | | | | |
| 29 | Wspomaganie komp. w proj. masz. | 60 | 0 | 0 | 60 | 0 | 0 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | 60 | | | 4 | | | | | | | | | | |
| 30 | Technologia budowy dróg | 30 | 30 | 0 | 0 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | | | 3 | | | | | | | | | | |
| 31 | Eksploatacja maszyn | 45 | 30 | 0 | 15 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 15 | | | 3 | | | | | |
| 32 | Maszyny i urządzenia górnictwa podziemnego | 120 | 60 | 0 | 60 | 0 | 0 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | 30E | | 30 | | | 3 | 30E | | 30 | | | 5 | | | | | |
| 33 | Budownictwo podziemne | 30 | 15 | 15 | 0 | 0 | 0 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 15 | | | | 2 | | | | | | | | | | |
| 34 | Hydrogeologia | 30 | 15 | 0 | 15 | 0 | 0 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 2 | | | | | | | | | | |
| 35 | Drilling | 45 | 15 | 0 | 30 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 30 | | | 3 | | | | | | | | | | |
| 36 | Napędy spalinowe | 15 | 15 | 0 | 0 | 0 | 0 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | | 2 | | | | | | | | | | |
| 37 | Wentylacja i pożary podziemne | 30 | 15 | 0 | 15 | 0 | 0 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 4 |
| 38 | Power supply and electrical drives | 45 | 30 | 0 | 15 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30E | | 15 | | | 3 | | | | | |
| 39 | Urządzenia hydrauliczne i pneumatyczne | 60 | 30 | 0 | 15 | 15 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 15 | 15 | | 3 | | | | | |
| 40 | Urządzenia transportu linowego | 60 | 30 | 0 | 15 | 15 | 0 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30E | | 15 | 15 | | 4 | | | | | |
| 41 | Maszyny budowlane, drogowe i przeróbcze | 60 | 30 | 0 | 30 | 0 | 0 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15E | | 15 | | | 2 | 15 | | 15 | | | 4 |
| 42 | Transport w górnictwie, drogownictwiei i budownictwie lądowym | 60 | 30 | 0 | 30 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | 3 | | | | | |
| 43 | Maszyny stosowane w górnictwie odkrywkowym i robotach ziemnych | 45 | 15 | 0 | 15 | 0 | 15 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 2 | | | | | 15 | 2 |
| 44 | Podstawy robotyki | 30 | 15 | 0 | 15 | 0 | 0 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 2 | | | | | |
| 45 | Wybrane elementy prawa | 15 | 15 | 0 | 0 | 0 | 0 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | | 2 |
| 46 | Metrologia | 45 | 15 | 0 | 30 | 0 | 0 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 30 | | | 3 |
| 47 | Seminarium specjalnosciowe | 15 | 0 | 0 | 0 | 0 | 15 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 3 |
| 48 | Projekt inżynierski | 45 | 0 | 0 | 0 | 45 | 0 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 3 | | | | 30 | | 12 |
| Oznaczenia | Razem | 2400 | 1140 | 255 | 780 | 195 | 30 | 210 | 195 | 90 | 45 | 15 | 0 | | 135 | 90 | 120 | 15 | 0 | | 165 | 45 | 120 | 0 | 0 | | 180 | 0 | 105 | 60 | 0 | | 180 | 30 | 165 | 30 | 0 | | 225 | 0 | 165 | 45 | 0 | | 60 | 0 | 60 | 30 | 30 | |
| | | | | | | | | | 345 | | | | | 30 | 360 | | | | | 30 | 330 | | | | 30 | 345 | | | | | 30 | 405 | | | | | 30 | 435 | | | | | 30 | 180 | | | | | 30 |
| | Liczba | Egzaminów | | | | | | | 2 | | | | | 30 | 2 | | | | | 30 | 3 | | | | | 30 | 3 | | | | | 30 | 2 | | | | | 30 | 4 | | | | | 30 | 0 | | | | | 30 |
| | | Zaliczeń | | | | | | | 8 | | | | | | 7 | | | | | | 6 | | | | | | 6 | | | | | | 8 | | | | | | 6 | | | | | | 7 | | | | | |