

PLAN STUDIÓW I stopnia - studia stacjonarne

AUTOMATYKI, ELEKTRONIKI I INFORMATYKI oraz INŻYNIERII ŚRODOWISKA I ENERGETYKI

Modelowanie komputerowe

| PRZEDMIOTY - SEMESTR | | | | | | | 1 sem | | 2 sem | | 3 sem | | 4 sem | | 5 sem | | 6 sem | | 7 sem | | PKT KREDYTOWE | | | | | | | | | | | | | | |
|--|-----|----|-----|-----|-----|----|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|-------|---|---------------|---|---|---|---|---|---|---|---|---|---|---|----|----|---|
| Reg | Wy | Ćw | Se | Lit | Prc | w | c | l | p | w | c | l | p | w | c | l | p | w | c | s | l | p | w | c | s | l | p | 1 | 2 | 3 | 4 | 5 | 6 | 7 | S |
| PRZEDMIOTY NIETECHNICZNE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Język angielski | 120 | 0 | 120 | 0 | 0 | 0 | 2 | | | 2 | | | | 2 | | | | | | | | | | | | | | 2 | 2 | 2 | 2 | | | | 8 |
| Wychowanie fizyczne | 60 | 0 | 60 | 0 | 0 | 0 | 2 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 0 |
| Przedmiot humanistyczny | 15 | 15 | 0 | 0 | 0 | 0 | 1 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 | |
| Przedmiot ekonomiczny | 30 | 30 | 0 | 0 | 0 | 0 | 2 | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | 3 | |
| Ochrona własności intelektualnych | 15 | 15 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 | 1 | |
| PRZEDMIOTY PODSTAWOWE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Matematyka | 210 | 90 | 120 | 0 | 0 | 0 | 2 | 4 | | 2 | 2 | | | | | | | | | | | | | | | | | 7 | 5 | 5 | | | | 17 | |
| Chemia | 60 | 30 | 15 | 0 | 15 | 0 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | 6 | 2 | | | | | | 8 | |
| Równania różniczkowe i elementy statystyki | 60 | 0 | 0 | 0 | 0 | 60 | | | | | | | 4 | | | | | | | | | | | | | | | | | 5 | | | | 5 | |
| Grafika inżynierska | 45 | 15 | 0 | 0 | 0 | 30 | | | 1 | | 2 | | | | | | | | | | | | | | | | 3 | | | | | | | 3 | |
| Technologie informatyczne | 30 | 0 | 0 | 0 | 30 | 0 | | | | | 2 | | | | | | | | | | | | | | | | 2 | | | | | | | 2 | |
| Fizyka | 90 | 30 | 30 | 0 | 30 | 0 | 2 | 2 | | | 2 | | | | | | | | | | | | | | | | 6 | 3 | | | | | | 9 | |
| Mechanika techniczna | 60 | 30 | 30 | 0 | 0 | 0 | | | | 2 | 2 | | | | | | | | | | | | | | | | | | 5 | | | | | 5 | |
| Wytrzymałość materiałów | 75 | 30 | 30 | 0 | 15 | 0 | | | | | 2 | 2 | 1 | | | | | | | | | | | | | | | | | 6 | | | | 6 | |
| Mechanika płynów | 75 | 30 | 30 | 0 | 15 | 0 | | | | | | | | 2 | 2 | 1 | | | | | | | | | | | | | | 6 | | | | 6 | |
| PRZEDMIOTY KIERUNKOWE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Podstawy programowania | 135 | 60 | 0 | 0 | 45 | 30 | | | | | 2 | 3 | | 2 | | | 2 | | | | | | | | | | | | 6 | 5 | | | | 11 | |
| Metody numeryczne | 60 | 30 | 0 | 0 | 30 | 0 | | | | | | | | 2 | 2 | | | | | | | | | | | | | | | 4 | | | | 4 | |
| Metody optymalizacji | 60 | 30 | 0 | 0 | 30 | 0 | | | | | | | | | | | 2 | 2 | | | | | | | | | | | | | 4 | | | 4 | |
| Numeryczna mechanika płynów (FVM) | 90 | 30 | 0 | 0 | 30 | 30 | | | | | | | | | | | 2 | 2 | 2 | | | | | | | | | | | 6 | | | | 6 | |
| CAD | 45 | 0 | 0 | 0 | 45 | 0 | | | | 3 | | | | | | | | | | | | | | | | | | | 3 | | | | | 3 | |
| Termodynamika techniczna | 105 | 45 | 60 | 0 | 0 | 0 | | | | | 2 | 2 | | 1 | 2 | | | | | | | | | | | | | | | 5 | 4 | | | 9 | |
| Podstawy konstrukcji maszyn | 60 | 30 | 0 | 0 | 0 | 30 | | | | | 2 | | 2 | | | | | | | | | | | | | | | | | 5 | | | | 5 | |
| Maszyny energetyczne | 45 | 30 | 15 | 0 | 0 | 0 | 2 | 1 | | | | | | | | | | | | | | | | | | | 5 | | | | | | | 5 | |
| Transport ciepła i masy | 75 | 30 | 30 | 0 | 15 | 0 | | | | | | | | | | | 2 | 2 | 1 | | | | | | | | | | | | 6 | | | 6 | |
| Podstawy automatyki | 90 | 30 | 30 | 0 | 30 | 0 | | | | | | | | 2 | 2 | | | | 2 | | | | | | | | | | | 4 | 2 | | | 6 | |
| Wprowadzenie do modelowania i symulacji | 30 | 15 | 0 | 0 | 15 | 0 | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | 2 | | | | 2 | |
| Programowanie obiektowe | 90 | 30 | 0 | 0 | 0 | 60 | | | | | | | | 2 | | | 2 | | | | | | | | | | | | | 4 | 2 | | | 6 | |
| Metody identyfikacji procesów | 30 | 15 | 0 | 0 | 15 | 0 | | | | | | | | | | | 1 | 1 | | | | | | | | | | | | 2 | | | | 2 | |
| Elektryczność i magnetyzm | 30 | 15 | 0 | 0 | 15 | 0 | | | | | | | | 1 | 1 | | | | | | | | | | | | | | | 2 | | | | 2 | |
| Elektrotechnika i elektronika | 75 | 30 | 15 | 0 | 30 | 0 | | | | 2 | 1 | 2 | | | | | | | | | | | | | | | | | 5 | | | | | 5 | |
| Zarządzanie projektami | 45 | 15 | 0 | 0 | 0 | 30 | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | 3 | 3 | |
| Praktyka wakacyjna (min. 4 tygodnie) | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | | 5 | |
| Projekt inżynierski | 45 | 0 | 0 | 0 | 0 | 45 | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | 15 | 15 | |
| PRZEDMIOTY SPECJALNOŚCIOWE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Modelowanie systemowe | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Modelowanie Biosystemów | 45 | 15 | 0 | 0 | 30 | 0 | | | | | | | | | | | 1 | 2 | | | | | | | | | | | | | 5 | | | 5 | |
| Metody sztucznej inteligencji | 60 | 30 | 0 | 0 | 30 | 0 | | | | | | | | | | | | | 2 | | 2 | | | | | | | | | | 4 | | | 4 | |
| Programowanie równoległe | 90 | 30 | 0 | 0 | 60 | 0 | | | | | | | | | | | 2 | | | | 3 | | | | | | | | | 3 | 2 | | | 5 | |
| Basics of structural modeling | 60 | 30 | 0 | 0 | 30 | 0 | | | | | | | | | | | | | 2 | | 2 | | | | | | | | | | | 2 | | 2 | |
| Implementacja układów sterowania | 45 | 15 | 0 | 0 | 30 | 0 | | | | | | | | | | | | | 1 | | 2 | | | | | | | | | | | 2 | | 2 | |
| Symulacja w automatyce | 45 | 15 | 0 | 0 | 30 | 0 | | | | | | | | | | | | | | 1 | | 2 | | | | | | | | | | 5 | | 5 | |

