**PLAN STUDIÓW STACJONARNYCH I STOPNIA - INŻYNIERSKICH**

**Kierunek: INFORMATYKA specjalności: Informatyka w e-biznesie, Technologie internetowe i grafika komputerowa, Inżynieria komputerowa, Inżynieria oprogramowania i systemy sieciowe**

Siatka obowiązuje w roku akademickim 2012/2013 i obejmuje I, II, III, IV rok studiów (semestry 1,2,3,4,5,6, 7)

| Lp | Nazwa przedmiotu | Obowiązu-je po se-mestrze | | Godziny zajęć w tym: | | | | | ROZKŁAD GODZIN ZAJĘĆ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | SUMA ECTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | I rok | | | | | | | | II rok | | | | | | | | III rok | | | | | | | | IV rok | | | | PUNKTY ECTS | | | | | | | |
| | | Egz. | Zal. | Razem | W | Ć | P | L | 1 sem. | | | | 2 sem. | | | | 3 sem. | | | | 4 sem. | | | | 5 sem. | | | | 6 sem. | | | | 7 sem. | | | | semestry | | | | | | | |
| | | | | | | | | | w | ć | p | l | w | ć | p | l | w | ć | p | l | w | ć | p | l | w | ć | p | l | w | ć | p | l | w | ć | p | l | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
| **A. PRZEDMIOTY KSZTAŁCENIA OGÓLNEGO** | | | | 240 | 30 | 210 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ***1. JĘZYKI OBCE*** | | | | 120 | 0 | 120 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Język angielski I | | 1 | 30 | | 30 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 |
| 2 | Język angielski II | | 2 | 30 | | 30 | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 |
| 3 | Język angielski III | | 3 | 30 | | 30 | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 | | | | | 1 |
| 4 | Język angielski IV | | 4 | 30 | | 30 | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 | | | | 2 |
| ***2. PRZEDMIOTY HUMANISTYCZNE I SPOŁECZNE*** | | | | 60 | 30 | 30 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Socjologia | | 2 | 30 | 15 | 15 | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | 2 |
| 6 | Techniki negocjacji i mediacji społecznych | | 2 | 30 | 15 | 15 | | | | | | | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 |
| ***3. WYCHOWANIE FIZYCZNE*** | | | | 60 | 0 | 60 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Wychowanie fizyczne I | | 1 | 30 | | 30 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 |
| 8 | Wychowanie fizyczne II | | 2 | 30 | | 30 | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 |
| ***4. INNE*** | | | | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Szkolenie BHP 4h-wykład | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Szkolenie biblioteczne 2h-ćw | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **B. PRZEDMIOTY PODSTAWOWE** | | | | 810 | 345 | 180 | 30 | 255 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ***1. MATEMATYKA*** | | | | 390 | 180 | 165 | 0 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Logika i teoria mnogości | 1 | 1 | 60 | 30 | 30 | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | | | | | | | 5 |
| 10 | Algebra liniowa z geometrią analityczna | 2 | 2 | 60 | 30 | 30 | | | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | 5 | | | | | | 5 |
| 11 | Analiza matematyczna | 1 | 1 | 75 | 30 | 45 | | | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | | | | | | | 7 |
| 13 | Matematyka dyskretna | 2 | 2 | 60 | 30 | 30 | | | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | 5 | | | | | | 5 |
| 14 | Metody probabilistyczne i statystyka I | 3 | 3 | 60 | 30 | 30 | | | | | | | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | 3 | | | | | 3 |
| 15 | Metody probabilistyczne i statystyka II | | 4 | 15 | | | | 15 | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | 1 | | | | 1 |
| 16 | Metody numeryczne I | | 4 | 30 | 15 | | | 15 | | | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | 2 | | | | 2 |
| 17 | Metody numeryczne II | 5 | 5 | 30 | 15 | | | 15 | | | | | | | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | 2 | | | 2 |
| ***2. PRZEDMIOTY Z NAUK ŚCISŁYCH, PRZYRODNICZYCH, TECHNICZNYCH LUB SPOŁECZNO-EKONOMICZNYCH*** | | | | 420 | 165 | 15 | 30 | 210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | Inżynieria ekologiczna | | 2 | 60 | 30 | | | 30 | | | | | 2 | | | 2 | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | 3 |
| 19 | Podstawy elektrotechniki i elektroniki I | 1 | 1 | 45 | 15 | | | 30 | 1 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | 4 |
| 20 | Fizyka I | | 1 | 60 | 15 | 15 | | 30 | 1 | 1 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 5 | | | | | | | 5 |
| 21 | Fizyka II | 2 | 2 | 45 | 15 | | | 30 | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | 3 |
| 22 | Miernictwo elektroniczne | | 4 | 30 | 15 | | | 15 | | | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | 2 | | | | 2 |
| 23 | Podstawy automatyki | | 3 | 60 | 30 | | | 30 | | | | | | | | | 2 | | | 2 | | | | | | | | | | | | | | | | | | | 5 | | | | | 5 |
| 24 | Analiza i przetwarzanie sygnałów | 4 | 4 | 60 | 30 | | | 30 | | | | | | | | | | | | | 2 | | | 2 | | | | | | | | | | | | | | | | 5 | | | | 5 |
| 25 | Techniki i technologie cyfrowe I | 1 | 1 | 15 | 15 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | 1 |
| 26 | Techniki i technologie cyfrowe II | | 2 | 15 | | | | 15 | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | 1 |
| 27 | Techniki i technologie cyfrowe III | | 3 | 30 | | | 30 | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | 2 | | | | | 2 |
| **C. PRZEDMIOTY KIERUNKOWE** | | | | 990 | 405 | 0 | 45 | 540 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ***1.PODSTAWY INFORMATYKI*** | | | | 180 | 90 | 0 | 0 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | Podstawy informatyki i architektury systemów komputerowych | 1 | 1 | 60 | 30 | | | 30 | 2 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | | 4 |
| 29 | Algorytmy i struktury danych | 3 | 3 | 60 | 30 | | | 30 | | | | | | | | | 2 | | | 2 | | | | | | | | | | | | | | | | | | | 6 | | | | | 6 |
| 30 | Zagadnienia społeczne i zawodowe informatyki | | 2 | 30 | 15 | | | 15 | | | | | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | 2 |
| 31 | Komunikacja człowiek - komputer | | 7 | 30 | 15 | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | | | | | | | 2 | 2 |
| ***2. OPROGRAMOWANIE*** | | | | 540 | 180 | 0 | 45 | 315 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | Podstawy programowania | | 2 | 60 | 30 | | | 30 | | | | | 2 | | | 2 | | | | | | | | | | | | | | | | | | | | | | 8 | | | | | | 8 |
| 33 | Języki programowania I | | 3 | 45 | 15 | | | 30 | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | | | | 4 | | | | | 4 |
| 34 | Języki programowania II | 4 | 4 | 45 | 15 | | | 30 | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | 4 | | | | 4 |
| 35 | Systemy operacyjne | 3 | 3 | 45 | 15 | | | 30 | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | | | | 4 | | | | | 4 |
| 36 | Inżynieria oprogramowania | 6 | 6 | 60 | 30 | | | 30 | | | | | | | | | | | | | | | | | | | | | 2 | | | 2 | | | | | | | | | | 6 | | 6 |
| 37 | Bazy danych | 4 | 4 | 60 | 15 | | | 45 | | | | | | | | | | | | | 1 | | | 3 | | | | | | | | | | | | | | | | 6 | | | | 6 |
| 38 | Inżynieria baz danych | | 5 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | 4 | | | 4 |
| 39 | Systemy wbudowane | 7 | 7 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | 6 | 6 |
| 40 | Technologie internetowe | 5 | 5 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | 2 | | | 2 |
| 41 | Sztuczna inteligencja | 6 | 6 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | 5 | | 5 |
| 42 | Projekt informatyczny | | 5 | 45 | | | 45 | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | 6 | | | 6 |
| ***3. SYSTEMY*** | | | | 270 | 135 | 0 | 0 | 135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | Architektura komputerów | 6 | 6 | 60 | 30 | | | 30 | | | | | | | | | | | | | | | | | | | | | 2 | | | 2 | | | | | | | | | | 4 | | 4 |
| 44 | Sieci komputerowe | | 4 | 60 | 30 | | | 30 | | | | | | | | | | | | | 2 | | | 2 | | | | | | | | | | | | | | | | 4 | | | | 4 |
| 45 | Techniki grafiki komputerowej | | 5 | 30 | 15 | | | 15 | | | | | | | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | 4 | | | 4 |
| 46 | Techniki multimedialne I | | 5 | 30 | 15 | | | 15 | | | | | | | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | 3 | | | 3 |
| 47 | Modelowanie i symulacje komputerowe I | | 5 | 30 | 15 | | | 15 | | | | | | | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | 2 | | | 2 |
| 48 | Modelowanie i symulacje komputerowe II | 6 | 6 | 30 | 15 | | | 15 | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | 3 | | 3 |
| 49 | Bezpieczeństwo i ochrona danych w systemach | | 6 | 30 | 15 | | | 15 | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | 3 | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **SUMA** | 28 | 32 | 25 | 26 | 23 | 21 | 8 | 163 **163** |

## PLAN STUDIÓW STACJONARNYCH I STOPNIA - INŻYNIERSKICH

### Kierunek: INFORMATYKA specjalności: Informatyka w e-biznesie, Technologie internetowe i grafika komputerowa, Inżynieria komputerowa, Inżynieria oprogramowania i systemy sieciowe

Siatka obowiązuje w roku akademickim 2012/2013 i obejmuje I, II, III, IV rok studiów (semestry 1,2,3,4,5,6, 7)

| | | | | | | | | | ROZKŁAD GODZIN ZAJĘĆ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lp | Nazwa przedmiotu | Obowiązu-je po se-mestrze | | Godziny zajęć w tym: | | | | | I rok | | | | | | | | II rok | | | | | | | | III rok | | | | | | | | IV rok | | | | PUNKTY ECTS | | | | | | | SUMA ECTS | |
| | | Egz. | Zal. | Razem | W | Ć | P | L | 1 sem. | | | | 2 sem. | | | | 3 sem. | | | | 4 sem. | | | | 5 sem. | | | | 6 sem. | | | | 7 sem. | | | | semestry | | | | | | | | |
| | | | | | | | | | w | ć | p | l | w | ć | p | l | w | ć | p | l | w | ć | p | l | w | ć | p | l | w | ć | p | l | w | ć | p | l | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | |
| **D. PRZEDMIOTY SPECJALIZACYJNE I SPECJALNOŚCIOWE (+seminaria)** | | | | 390 | 105 | 0 | 150 | 135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ***a. Informatyka w e-biznesie*** | | | | 315 | 105 | 0 | 75 | 135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | SUMA ECTS | |
| 50 | Analiza biznesowa przedsięwzięć sieciowych | 5 | 5 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | 3 | | | 3 | |
| 51 | Biznes elektroniczny w społeczeństwie informacyjnym | | 3 | 30 | 15 | | 15 | | | | | | | | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | 4 | | | | | 4 | |
| 52 | Internet i programowanie www | 4 | 4 | 75 | 15 | | 30 | 30 | | | | | | | | | | | | | 1 | | 2 | 2 | | | | | | | | | | | | | | | | 4 | | | | 4 | |
| 53 | Wybrane zagadnienia rynków elektronicznych w ujęciu prawnym | | 5 | 30 | 15 | | | 15 | | | | | | | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | | | | 2 | | | 2 | |
| 54 | Metody wielowymiarowej analizy danych | 7 | 7 | 45 | 15 | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 2 | | | | | | | | 5 | 5 | |
| 55 | E-commerce | 6 | 6 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | 4 | | 4 | |
| 56 | Przedmiot do wyboru:Standardy informacyjne i informatyczne w gospodarce; Strategia tworzenia systemów biznesu elektronicznego. | 7 | 7 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | 5 | 5 | |
| ***PRAKTYKA ZAWODOWA*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | Praktyka zawodowa | | 4 | | | | | | Praktyka 4 tygodniowa zgodnie ze specjalnoscią (lub 8 godzin dziennie ale nie mniej niz 160 godzin) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | |
| ***SEMINARIUM DYPLOMOWE*** | | | | 75 | 0 | 0 | 75 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | Proseminarium | | 5 | 15 | | | 15 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2 | | | 2 | |
| 59 | Seminarium dyplomowe I | | 6 | 30 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 5 | | 5 | |
| 60 | Seminarium dyplomowe II | | 7 | 30 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | 12 | 12 | |
| | | Suma | | 2430 | 885 | 390 | 225 | 930 | 9 | 10 | 0 | 6 | 12 | 10 | 0 | 8 | 9 | 4 | 3 | 8 | 9 | 2 | 2 | 14 | 8 | 0 | 4 | 11 | 8 | 0 | 2 | 10 | 4 | 0 | 4 | 5 | 0 | 0 | 4 | 5 | 7 | 9 | 22 | 47 | |
| | | Suma | | 162 | | | | | 25 | | | | 30 | | | | 24 | | | | 27 | | | | 23 | | | | 20 | | | | 13 | | | | 28 | 32 | 29 | 31 | 30 | 30 | 30 | 210 | |
| | | Ilość egzaminów | | 52 | | | | | 5 | | | | 3 | | | | 3 | | | | 4 | | | | 3 | | | | 5 | | | | 3 | | | | | | | | | | | | |
| **D. PRZEDMIOTY SPECJALIZACYJNE I SPECJALNOŚCIOWE (+seminaria)** | | | | 390 | 105 | 0 | 105 | 180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ***b. Technologie internetowe i grafika komputerowa*** | | | | 315 | 105 | 0 | 30 | 180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | SUMA ECTS | |
| 50 | Grafika komputerowa i wizualizacja | 4 | 4 | 45 | 15 | | | 30 | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | 4 | | | | 4 | |
| 51 | Inżynieria Internetu | | 3 | 45 | 15 | | | 30 | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | | | | 4 | | | | | 4 | |
| 52 | Multimedialne technologie informacyjne | | 5 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | 2 | | | 2 | |
| 53 | Internet - programowanie WWW | 5 | 5 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | 3 | | | 3 | |
| 54 | Przetwarzanie obrazów | 7 | 7 | 45 | 15 | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 2 | | | | | | | | 5 | 5 | |
| 55 | Systemy zarządzania treścią | 6 | 6 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | 4 | | 4 | |
| 56 | Przedmiot do wyboru | 7 | 7 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | 5 | 5 | |
| ***PRAKTYKA ZAWODOWA*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | Praktyka zawodowa | | 4 | | | | | | Praktyka 4 tygodniowa zgodnie ze specjalnoscią (lub 8 godzin dziennie ale nie mniej niz 160 godzin) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | |
| ***SEMINARIUM DYPLOMOWE*** | | | | 75 | 0 | 0 | 75 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | Proseminarium | | 5 | 15 | | | 15 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2 | | | 2 | |
| 59 | Seminarium dyplomowe I | | 6 | 30 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 5 | | 5 | |
| 60 | Seminarium dyplomowe II | | 7 | 30 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | 12 | 12 | |
| | | Suma | | 2430 | 885 | 390 | 180 | 975 | 9 | 10 | 0 | 6 | 12 | 10 | 0 | 8 | 9 | 4 | 2 | 10 | 9 | 2 | 0 | 14 | 8 | 0 | 4 | 12 | 8 | 0 | 2 | 10 | 4 | 0 | 4 | 5 | 0 | 0 | 4 | 5 | 7 | 9 | 22 | 47 | |
| | | Suma | | | | | | 162 | 25 | | | | 30 | | | | 25 | | | | 25 | | | | 24 | | | | 20 | | | | 13 | | | | 28 | 32 | 29 | 31 | 30 | 30 | 30 | 210 | |
| | | Ilość egzaminów | | | | | | | 5 | | | | 3 | | | | 3 | | | | 4 | | | | 3 | | | | 5 | | | | 3 | | | | | | | | | | | | |
| **D. PRZEDMIOTY SPECJALIZACYJNE I SPECJALNOŚCIOWE (+seminaria)** | | | | 390 | 105 | 0 | 75 | 210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ***c. Inżynieria komputerowa*** | | | | 315 | 105 | 0 | 0 | 210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | SUMA ECTS | |
| 50 | Automatyka cyfrowa | 4 | 4 | 45 | 15 | | | 30 | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | 4 | | | | 4 | |
| 51 | Teoria obwodów | | 3 | 45 | 15 | | | 30 | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | | | | 4 | | | | | 4 | |
| 52 | Teoria sterowania | 5 | 5 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | 2 | | | 2 | |
| 53 | Inżynieria chemiczna i modelowanie procesów | 7 | 7 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | 5 | 5 | |
| 54 | Administrowanie systemami serwerowymi | | 5 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | 3 | | | 3 | |
| 55 | Fizyka techniczna | 6 | 6 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | 4 | | 4 | |
| 56 | Przedmiot do wyboru | 7 | 7 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | 5 | 5 | |
| ***PRAKTYKA ZAWODOWA*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | Praktyka zawodowa | | 4 | | | | | | Praktyka 4 tygodniowa zgodnie ze specjalnoscią (lub 8 godzin dziennie ale nie mniej niz 160 godzin) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | |
| ***SEMINARIUM DYPLOMOWE*** | | | | 75 | 0 | 0 | 75 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | Proseminarium | | 5 | 15 | | | 15 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2 | | | 2 | |
| 59 | Seminarium dyplomowe I | | 6 | 30 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 5 | | 5 | |
| 60 | Seminarium dyplomowe II | | 7 | 30 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | 12 | 12 | |
| | | Suma | | 2430 | 885 | 390 | 150 | 1005 | 9 | 10 | 0 | 6 | 12 | 10 | 0 | 8 | 9 | 4 | 2 | 10 | 9 | 2 | 0 | 14 | 8 | 0 | 4 | 12 | 8 | 0 | 2 | 10 | 4 | 0 | 2 | 7 | 0 | 0 | 4 | 5 | 7 | 9 | 22 | 47 | 0 |
| | | Suma | | 162 | | | | | 25 | | | | 30 | | | | 25 | | | | 25 | | | | 24 | | | | 20 | | | | 13 | | | | 28 | 32 | 29 | 31 | 30 | 30 | 30 | 210 | |
| | | Ilość egzaminów | | | | | | | 5 | | | | 3 | | | | 3 | | | | 4 | | | | 3 | | | | 5 | | | | 3 | | | | | | | | | | | | |
| **D. PRZEDMIOTY SPECJALIZACYJNE I SPECJALNOŚCIOWE (+seminaria)** | | | | 390 | 105 | 0 | 120 | 165 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ***d Inżynieria oprogramowania i systemy sieciowe**** | | | | 315 | 105 | 0 | 45 | 165 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | SUMA ECTS | |
| 50 | Projektowanie i realizacja sieci komputerowych | 5 | 5 | 45 | 15 | | 15 | 15 | | | | | | | | | | | | | | | | | 1 | | 1 | 1 | | | | | | | | | | | | | 2 | | | 2 | |
| 51 | Inżynieria systemów informacyjnych i zarządzanie projektami informatycznymi | 7 | 7 | 45 | 15 | | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 1 | | | | | | | 5 | 5 | |
| 52 | Sieciowe systemy operacyjne (GNU/Linux) | 4 | 4 | 45 | 15 | | | 30 | | | | | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | 4 | | | | 4 | |
| 53 | Systemy mobilne i teleinformatyczne sieci bezprzewodowe | 6 | 6 | 30 | 15 | | | 15 | | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | | | | | | | | | | 4 | | 4 | |
| 54 | Projektowanie i programowanie w środowiskach graficznych | 5 | 5 | 60 | 15 | | 15 | 30 | | | | | | | | | | | | | | | | | 1 | | 1 | 2 | | | | | | | | | | | | | 3 | | | 3 | |
| 55 | Informatyczne systemy zarządzania | 3 | 3 | 45 | 15 | | | 30 | | | | | | | | | 1 | | | 2 | | | | | | | | | | | | | | | | | | | 4 | | | | | 4 | |
| 56 | Przedmiot do wyboru | 7 | 7 | 45 | 15 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | 2 | | | | | | | 5 | 5 | |
| ***PRAKTYKA ZAWODOWA*** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | Praktyka zawodowa | | 4 | | | | | | Praktyka 4 tygodniowa zgodnie ze specjalnoscią (lub 8 godzin dziennie ale nie mniej niz 160 godzin) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | 1 | |
| ***SEMINARIUM DYPLOMOWE*** | | | | 75 | 0 | 0 | 75 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | Proseminarium | | 5 | 15 | | | 15 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2 | | | 2 | |
| 59 | Seminarium dyplomowe I | | 6 | 30 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 5 | | 5 | |
| 60 | Seminarium dyplomowe II | | 7 | 30 | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | 12 | 12 | |
| | | Suma | | 570 | 195 | 30 | 120 | 225 | 9 | 10 | 0 | 6 | 12 | 10 | 0 | 8 | 9 | 4 | 2 | 10 | 9 | 2 | 0 | 14 | 8 | 0 | 6 | 11 | 8 | 0 | 2 | 9 | 4 | 0 | 3 | 6 | 0 | 0 | 4 | 5 | 7 | 9 | 22 | 47 | 0 |
| | | Suma | | 162 | | | | | 25 | | | | 30 | | | | 25 | | | | 25 | | | | 25 | | | | 19 | | | | 13 | | | | 28 | 32 | 29 | 31 | 30 | 30 | 30 | 210 | |
| | | Ilość egzaminów | | | | | | | 5 | | | | 3 | | | | 4 | | | | 4 | | | | 4 | | | | 5 | | | | 3 | | | | | | | | | | | | |

* - specjalność wprowadzona dla naboru 2009/2010 (obowiązuje w roku akademickim 2010/2011)