**Wydział Informatyki**

| | |
|---|---|
| Nazwa kierunku studiów: | **Informatyka** |
| Dziedziny nauki: | **dziedzina nauk inżynieryjno-technicznych** |
| Dyscypliny naukowe: | **informatyka techniczna i telekomunikacja (100%)** |
| Profil kształcenia: | **ogólnoakademicki** |
| Forma studiów: | **stacjonarna** |
| Poziom kształcenia: | **pierwszy** |
| Specjalność/specjalizacja: | **Inżynieria komputerowa** |
| Kod planu studiów: | **I_1A_S_2019_2020_Z** |

Zachodniopomorski Uniwersytet Technologiczny w Szczecinie

Rok akademicki: 2019/2020
Obowiązuje od: 2019-10-01
Załącznik nr 1 do UChwały nr 69 Senatu ZUT z dnia 27 kwietnia 2020 r.

**Plan Studiów**

| Blok | Obieralność | Grupa | Kod modułu/przedmiotu | Moduł / przedmiot | FZ | L. godz. | L. zajęć | Liczba godzin: Suma | Forma zajęć: W | A | LK | S | L | P | PD | PR | Suma ECTS | Praktyczne ECTS | Kształceń ECTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | **Moduły/Przedmioty kształcenia ogólnego** | | | | | | | | | | | | | | | |
| | | | A01 | Komunikacja interpersonalna i praca zespołowa | 0 | 2 | | 30 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0.0 | 0.6 |
| | | | A02 | Ochrona własności intelektualnej | 0 | 1 | | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.0 | 0.0 | 1.0 |
| 10 | 1 | | | Blok obieralny 10 | 0 | 1 | | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0.0 | 1.3 |
| 11 | 1 | | | Blok obieralny 11 | 0 | 1 | | 60 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0.0 | 2.0 |
| 12 | 1 | | | Blok obieralny 12 | 1 | 0 | | 60 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 3.0 | 0.0 | 2.6 |
| | | | A04.1 | Wychowanie fizyczne 1 | 0 | 1 | | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | | | A04.2 | Wychowanie fizyczne 2 | 0 | 1 | | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | | | A05 | Ekonomia i zarządzanie | 0 | 2 | | 30 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0.0 | 1.4 |
| | | | | Razem | 1 | 9 | | 285 | 45 | 90 | 150 | 0 | 0 | 0 | 0 | 0 | 12.0 | 0.0 | 8.9 |
| | | | | **Moduły/Przedmioty kształcenia podstawowego** | | | | | | | | | | | | | | | |
| | | | B01 | Algebra liniowa | 1 | 1 | | 60 | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 6.0 | 0.0 | 3.0 |
| | | | B02.1 | Matematyka stosowana ze statystyką 1 | 1 | 1 | | 60 | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 6.0 | 0.0 | 3.0 |
| | | | B02.2 | Matematyka stosowana ze statystyką 2 | 1 | 2 | | 75 | 30 | 15 | 0 | 0 | 30 | 0 | 0 | 0 | 7.0 | 3.0 | 3.6 |
| | | | B03 | Matematyka dyskretna | 1 | 1 | | 60 | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 | 0.0 | 2.9 |
| | | | | Razem | 4 | 5 | | 255 | 120 | 105 | 0 | 0 | 30 | 0 | 0 | 0 | 24.0 | 3.0 | 12.5 |
| | | | | **Moduły/Przedmioty kształcenia kierunkowego** | | | | | | | | | | | | | | | |
| | | | C01.1 | Programowanie 1 | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 6.0 | 3.0 | 2.8 |
| | | | C01.2 | Programowanie 2 | 1 | 1 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 5.0 | 2.0 | 3.2 |
| | | | C02 | Wprowadzenie do informatyki | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 6.0 | 3.0 | 2.8 |
| | | | C03 | Narzędzia inżynierskie | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 6.0 | 3.0 | 2.8 |
| | | | C04.1 | Algorytmy 1 | 0 | 2 | | 60 | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 5.0 | 0.0 | 2.7 |
| | | | C04.2 | Algorytmy 2 | 1 | 1 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 6.0 | 3.0 | 3.0 |
| | | | C05 | Technika cyfrowa | 1 | 2 | | 75 | 30 | 15 | 0 | 0 | 30 | 0 | 0 | 0 | 6.0 | 2.0 | 3.2 |
| | | | C06 | Metody numeryczne | 1 | 2 | | 90 | 30 | 15 | 0 | 0 | 45 | 0 | 0 | 0 | 7.0 | 4.0 | 3.8 |
| | | | C07 | Systemy operacyjne | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 6.0 | 3.0 | 3.2 |
| | | | C08 | Architektura systemów komputerowych | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 6.0 | 3.0 | 3.1 |
| 1 | 1 | | | Blok obieralny 1 | 0 | 2 | | 60 | 15 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 4.0 | 3.0 | 2.7 |
| | | | C10 | Grafika i wizualizacja | 0 | 2 | | 75 | 30 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 6.0 | 4.6 | 3.0 |
| | | | C11 | Transmisja danych | 1 | 1 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.7 |
| | | | C12 | Inżynieria oprogramowania | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.6 |
| | | | C13 | Zarządzanie informacją 1 | 1 | 2 | | 75 | 30 | 15 | 0 | 0 | 30 | 0 | 0 | 0 | 5.0 | 2.0 | 3.3 |
| | | | C14 | Przetwarzanie i analiza danych | 0 | 3 | | 75 | 30 | 15 | 0 | 0 | 30 | 0 | 0 | 0 | 5.0 | 2.0 | 3.2 |
| 2 | 1 | | | Blok obieralny 2 | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.7 |
| | | | C16 | Sztuczna inteligencja | 1 | 1 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 5.0 | 2.0 | 2.4 |
| | | | C17 | Sieci komputerowe | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.7 |
| | | | C18 | Podstawy ochrony informacji | 1 | 1 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 5.0 | 2.0 | 2.5 |
| | | | C19 | Modelowanie i symulacja systemów | 1 | 1 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 5.0 | 2.0 | 2.6 |
| | | | C20 | Systemy multimedialne | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.6 |
| | | | C21 | Społeczne aspekty informatyki | 0 | 2 | | 30 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0.0 | 1.4 |
| 8 | 1 | | | Blok obieralny 8 | 0 | 2 | | 30 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2.0 | 1.0 | 1.2 |
| 9 | 1 | | | Blok obieralny 9 | 0 | 2 | | 30 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2.0 | 1.0 | 1.2 |
| | | | | Razem | 9 | 45 | | 1500 | 690 | 105 | 0 | 0 | 705 | 0 | 0 | 0 | 120.0 | 55.6 | 67.4 |
| | | | | **Moduły/Przedmioty specjalnościowe** | | | | | | | | | | | | | | | |
| | | | D01.01.1 | Inżynierski projekt zespołowy 1 | 0 | 2 | | 55 | 10 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 4.0 | 3.0 | 2.3 |
| | | | D01.01.2 | Inżynierski projekt zespołowy 2 | 0 | 1 | | 45 | 0 | 0 | 0 | 0 | 0 | 45 | 0 | 0 | 3.0 | 3.0 | 1.8 |
| | | | D01.02 | Komunikacja człowiek-maszyna | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.6 |
| 3 | 1 | | | Blok obieralny 3 | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 3.2 |
| | | | D01.04 | Seminarium dyplomowe | 0 | 1 | | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 1.0 | 0.0 | 0.8 |
| | | | D01.05 | Projektowanie oprogramowania | 1 | 1 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.6 |
| 4 | 1 | | | Blok obieralny 4 | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.6 |
| 5 | 1 | | | Blok obieralny 5 | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.9 |
| | | | D01.08 | Pracownia dyplomowa | 0 | 1 | | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 1.0 | 0.0 | 0.0 |
| | | | D01.09 | Praca dyplomowa | 0 | 1 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15.0 | 15.0 | 0.0 |
| 6 | 1 | | | Blok obieralny 6 | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 3.0 | 1.5 | 2.6 |
| 7 | 1 | | | Blok obieralny 7 | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 3.0 | 1.5 | 2.8 |
| | | | | Razem | 1 | 19 | | 550 | 220 | 0 | 0 | 30 | 210 | 90 | 0 | 0 | 50.0 | 34.0 | 24.2 |
| | | | | **Moduły/Przedmioty obieralne** | | | | | | | | | | | | | | | |
| 10 | 1 | | A03.1.1 | Język angielski 1 | 0 | 1 | | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0.0 | 1.3 |
| | | | A03.1.2 | Język niemiecki 1 | 0 | 1 | | 30 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0.0 | 1.3 |
| 11 | 1 | | A03.2.1 | Język angielski 2 | 0 | 1 | | 60 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0.0 | 2.0 |
| | | | A03.2.2 | Język niemiecki 2 | 0 | 1 | | 60 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 2.0 | 0.0 | 2.0 |
| 12 | 1 | | A03.3.1 | Język angielski 3 | 1 | 0 | | 60 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 3.0 | 0.0 | 2.6 |
| | | | A03.3.2 | Język niemiecki 3 | 1 | 0 | | 60 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 3.0 | 0.0 | 2.6 |
| 1 | 1 | | C09.1 | Język Python | 0 | 2 | | 60 | 15 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 4.0 | 3.0 | 2.7 |
| | | | C09.2 | Język Java | 0 | 2 | | 60 | 15 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 4.0 | 3.0 | 2.4 |
| | | | C09.3 | Język C# | 0 | 2 | | 60 | 15 | 0 | 0 | 0 | 45 | 0 | 0 | 0 | 4.0 | 3.0 | 1.3 |
| 2 | 1 | | C15.1 | Systemy informacji geograficznej | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.7 |
| | | | C15.2 | Komercjalizacja produktów i usług | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.6 |
| | | | C15.3 | Teoria informacji i kodowania | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.8 |
| | | | C15.4 | Programowalne układy automatyki | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.9 |
| 8 | 1 | | C22.1 | Nowoczesne metody informatyki 1 | 0 | 2 | | 30 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2.0 | 1.0 | 1.2 |
| | | | C22.2 | Gry komputerowe 1 | 0 | 2 | | 30 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2.0 | 1.0 | 1.2 |
| | | | C22.3 | Warsztaty technologiczno-biznesowe 1 | 0 | 2 | | 30 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2.0 | 1.0 | 1.2 |
| | | | C22.4 | Produkcja dźwięku | 0 | 2 | | 30 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2.0 | 1.0 | 1.4 |
| | | | C22.5 | Algorytmy sterowania cyfrowego | 0 | 2 | | 30 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2.0 | 1.0 | 1.2 |
| 9 | 1 | | C23.1 | Nowoczesne metody informatyki 2 | 0 | 2 | | 30 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2.0 | 1.0 | 1.2 |
| | | | C23.2 | Gry komputerowe 2 | 0 | 2 | | 30 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2.0 | 1.0 | 1.2 |
| | | | C23.3 | Warsztaty technologiczno-biznesowe 2 | 0 | 2 | | 30 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2.0 | 1.0 | 1.2 |
| | | | C23.4 | Identyfikacja systemów | 0 | 2 | | 30 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2.0 | 1.0 | 1.2 |
| | | | C23.5 | Druk 3D | 0 | 2 | | 30 | 15 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 2.0 | 1.0 | 1.2 |
| 3 | 1 | | 01.03.1 | Technika mikroprocesorowa | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 3.2 |
| | | | 01.03.2 | Komunikacja bezprzewodowa | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.6 |
| 4 | 1 | | 01.06.1 | Systemy wbudowane | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.6 |
| | | | 01.06.2 | Usługi sieciowe | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.7 |
| 5 | 1 | | 01.07.1 | Przetwarzanie obrazów | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.9 |
| | | | 01.07.2 | Przetwarzanie dźwięku | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.6 |
| | | | 01.07.3 | Systemy sensorowe i mechatronika | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 4.0 | 2.0 | 2.6 |
| 6 | 1 | | 01.10.1 | Projektowanie systemów mikroprocesorowych | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 3.0 | 1.5 | 2.6 |
| | | | 01.10.2 | Zarządzanie ruchem sieciowym | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 3.0 | 1.5 | 2.6 |
| 7 | 1 | | 01.11.1 | Systemy mobilne | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 3.0 | 1.5 | 2.8 |
| | | | 01.11.2 | Akceleracja obliczeń | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 3.0 | 1.5 | 2.6 |
| | | | 01.11.3 | Sprzętowo-programowe systemy multimedialne | 0 | 2 | | 60 | 30 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 3.0 | 1.5 | 2.6 |
| | | | | **Praktyki zawodowe** | | | | | | | | | | | | | | | |
| | | | A06 | Praktyka programowa | 0 | 1 | | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4.0 | 4.0 | 4.0 |
| | | | | Razem | 0 | 1 | | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4.0 | 4.0 | 4.0 |
| | | | | **Przedmioty jednorazowe** | | | | | | | | | | | | | | | |
| | | | E01 | Szkolenie BHP | 0 | 1 | | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | | | E02 | Szkolenie biblioteczne | 0 | 1 | | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | | | E03 | Podstawy informacji naukowej | 0 | 1 | | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | | | | Razem | 0 | 3 | | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 |
| | | | | **SUMA** | 15 | 82 | | 2599 | 1084 | 300 | 150 | 30 | 945 | 90 | 0 | 0 | 210.0 | 96.6 | 117.0 |

| Moduł / przedmiot | I ROK 1 semestr W | A | LK | S | ECTS | L | P | PD | PR | ECTS | ECTS w semestrze | I ROK 2 semestr W | A | LK | S | ECTS | L | P | PD | PR | ECTS | ECTS w semestrze |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Moduły/Przedmioty kształcenia ogólnego** | | | | | | | | | | | | | | | | | | | | | | |
| A01 | | | | | | | | | | 0.0 | 15 z | 15 z | | | | 2.0 | | | | | 2.0 | |
| A02 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| B01 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| B02.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| B02.2 | | | | | | | | | | 0.0 | 30 e | 15 z | | | | 4.0 | 30 z | | | | 0.0 | |
| B03 | | | | | | | | | | 0.0 | 30 e | 30 z | | | | 5.0 | | | | | 0.0 | |
| Razem | | | | | | | | | | 0.0 | 60 0 | 45 0 | 0 0 | 0 0 | | 9.0 | 30 0 | 0 0 | 0 0 | 0 0 | 0.0 | |
| **Moduły/Przedmioty kształcenia kierunkowego** | | | | | | | | | | | | | | | | | | | | | | |
| C01.1 | 30 z | | | | 3.0 | 30 z | | | | 3.0 | 6.0 | | | | | | | | | | 0.0 | |
| C01.2 | | | | | | | | | | 0.0 | 30 e | | | | | 3.0 | 30 z | | | | 2.0 | 5.0 |
| C02 | 30 z | | | | 3.0 | 30 z | | | | 3.0 | 6.0 | | | | | | | | | | 0.0 | |
| C03 | 30 z | | | | 3.0 | 30 z | | | | 3.0 | 6.0 | | | | | | | | | | 0.0 | |
| C04.1 | | | | | | | | | | 0.0 | 30 z | 30 z | | | | 5.0 | | | | | 5.0 | |
| C04.2 | | | | | | | | | | 0.0 | 30 e | | | | | | | | | | 0.0 | |
| C05 | | | | | | | | | | 0.0 | 30 e | 15 z | | | | 4.0 | 30 z | | | | 2.0 | 6.0 |
| C06 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | 30 e |
| C07 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | 30 z |
| C08 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | 30 z |
| Blok obieralny 1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | 15 z |
| C10 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C11 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C12 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C13 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C14 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| Blok obieralny 2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C16 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C17 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C18 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C19 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C20 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C21 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| Blok obieralny 8 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| Blok obieralny 9 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| Razem | 90 0 | 0 0 | 0 0 | 0 0 | 9.0 | 90 0 | 0 0 | 0 0 | 0 0 | 9.0 | 18.0 | 90 0 | 45 0 | 0 0 | 0 0 | 12.0 | 60 0 | 0 0 | 0 0 | 0 0 | 4.0 | 16.0 |
| **Moduły/Przedmioty specjalnościowe** | | | | | | | | | | | | | | | | | | | | | | |
| D01.01.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| D01.01.2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| D01.02 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| Blok obieralny 3 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| D01.04 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| D01.05 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| Blok obieralny 4 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| Blok obieralny 5 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| D01.08 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| D01.09 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| Blok obieralny 6 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| Blok obieralny 7 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| Razem | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0.0 | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0.0 |
| **Moduły/Przedmioty obieralne** | | | | | | | | | | | | | | | | | | | | | | |
| A03.1.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| A03.1.2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| A03.2.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| A03.2.2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| A03.3.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| A03.3.2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C09.1 | | | | | | | | | | 0.0 | 15 z | | | | 1.0 | 45 z | | | | 3.0 | 4.0 | |
| C09.2 | | | | | | | | | | 0.0 | 15 z | | | | 1.0 | 45 z | | | | 3.0 | 4.0 | |
| C09.3 | | | | | | | | | | 0.0 | 15 z | | | | 1.0 | 45 z | | | | 3.0 | 4.0 | |
| C15.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C15.2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C15.3 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C15.4 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C22.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C22.2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C22.3 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C22.4 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C22.5 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C23.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C23.2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C23.3 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C23.4 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| C23.5 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| 01.03.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| 01.03.2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| 01.06.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| 01.06.2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| 01.07.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| 01.07.2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| 01.07.3 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| 01.10.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| 01.10.2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| 01.11.1 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| 01.11.2 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| 01.11.3 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| **Praktyki zawodowe** | | | | | | | | | | | | | | | | | | | | | | |
| A06 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| Razem | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0.0 | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0.0 |
| **Przedmioty jednorazowe** | | | | | | | | | | | | | | | | | | | | | | |
| E01 | 5 z | | | | 0.0 | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| E02 | 2 z | | | | 0.0 | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| E03 | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 | |
| Razem | 7 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0.0 | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0.0 |
| **SUMA** | 157 0 | 60 0 | 0 0 | 0 0 | 21.0 | 90 0 | 0 0 | 0 0 | 0 0 | 9.0 | 30.0 | 165 0 | 105 0 | 0 0 | 0 0 | 23.0 | 90 0 | 0 0 | 0 0 | 0 0 | 7.0 | 30.0 |

| Moduł / przedmiot | II ROK 3 semestr W | A | LK | S | ECTS | L | P | PD | PR | ECTS | ECTS w semestrze | II ROK 4 semestr W | A | LK | S | ECTS | L | P | PD | PR | ECTS | ECTS w semestrze |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Moduły/Przedmioty kształcenia ogólnego** | | | | | | | | | | | | | | | | | | | | | | |
| A01 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| A02 | 15 z | | | | 1.0 | | | | | | 1.0 | | | | | | | | | | | 0.0 |
| B01 | | | | | | | | | | | 0.0 | | | 30 z | | 2.0 | | | | | | 2.0 |
| B02.1 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| B02.2 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| B03 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| Razem | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 1.0 | 0 0 | 0 0 | 30 0 | 0 0 | 2.0 | 0 0 | 0 0 | 0 0 | 0 0 | 0.0 | 2.0 |
| **Moduły/Przedmioty kształcenia kierunkowego** | | | | | | | | | | | | | | | | | | | | | | |
| C01.1 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| C01.2 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| C02 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| C03 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| C04.1 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| C04.2 | | | 3.0 | 30 z | | | | | | 3.0 | 6.0 | | | | | | | | | | | 0.0 |
| C05 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| C06 | | | 3.0 | 45 z | | | | | | 4.0 | 7.0 | | | | | | | | | | | 0.0 |
| C07 | | | 3.0 | 30 z | | | | | | 3.0 | 6.0 | | | | | | | | | | | 0.0 |
| C08 | | | 3.0 | 30 z | | | | | | 3.0 | 6.0 | | | | | | | | | | | 0.0 |
| Blok obieralny 1 | | | 1.0 | 45 z | | | | | | 3.0 | 4.0 | | | | | | | | | | | 0.0 |
| C10 | | | | | | 1.4 | 45 z | | | | 6.0 | | | | | | | | | | | 0.0 |
| C11 | | | | | | 2.0 | 30 e | | | | 4.0 | | | | | | | | | | | 0.0 |
| C12 | | | | | | 2.0 | 30 z | | | | 4.0 | | | | | | | | | | | 0.0 |
| C13 | | | | | | 3.0 | 30 z | | | | 5.0 | | | | | | | | | | | 0.0 |
| C14 | | | | | | 3.0 | 30 z | | | | 5.0 | | | | | | | | | | | 0.0 |
| Blok obieralny 2 | | | | | | 2.0 | 30 z | | | | 4.0 | | | | | | | | | | | 0.0 |
| C16 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| C17 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| C18 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| C19 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| C20 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| C21 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| Blok obieralny 8 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| Blok obieralny 9 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| Razem | 135 0 | 15 0 | 0 0 | 0 0 | 13.0 | 180 0 | 0 0 | 0 0 | 0 0 | 16.0 | 29.0 | 180 0 | 30 0 | 0 0 | 0 0 | 13.4 | 195 0 | 0 0 | 0 0 | 0 0 | 14.6 | 28.0 |
| **Moduły/Przedmioty specjalnościowe** | | | | | | | | | | | | | | | | | | | | | | |
| D01.01.1 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| D01.01.2 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| D01.02 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| Blok obieralny 3 | | | | | | | | | | | 0.0 | | | 30 z | | 2.0 | | | | | | 2.0 |
| D01.04 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| D01.05 | | | | | | | | | | | 0.0 | | | | | | | | | | | 0.0 |
| Blok obieralny 4 | | | | | | | | | | | 0.0 | | | | | | | |