PAŃSTWOWA WYŻSZA SZKOŁA ZAWODOWA

im. Witelona w Legnicy

WYDZIAŁ NAUK TECHNICZNYCH I EKONOMICZNYCH

# PLAN STUDIÓW

## dla studentów rozpoczynających naukę w roku akademickim 2015/2016

Kierunek: **Informatyka**

Studia: **Pierwszego stopnia - niestacjonarne**

| | | Ogółem liczba godzin | | | | | | Liczba godzin zajęć w semestrach | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | z tego | | | | | sem I | | | | | | | sem II | | | | | | | sem III | | | | | | | sem IV | | | | | | | sem V | | | | | | | sem VI | | | | | | | sem VII | | | | | | |
| L.p. | Nazwa modułu kształcenia | | W | Ć | L | P | S | W | Ć | L | P | S | E-Zoc-Zal | ECTS | W | Ć | L | P | S | E-Zoc-Zal | ECTS | W | Ć | L | P | S | E-Zoc-Zal | ECTS | W | Ć | L | P | S | E-Zoc-Zal | ECTS | W | Ć | L | P | S | E-Zoc-Zal | ECTS | W | Ć | L | P | S | E-Zoc-Zal | ECTS | W | Ć | L | P | S | E-Zoc-Zal | ECTS |
| **A.** | **MODUŁ KSZTAŁCENIA OGÓLNEGO** | **100** | **24** | **76** | **0** | **0** | **0** | **24** | **0** | **0** | **0** | **0** | **0** | **4** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **22** | **0** | **0** | **0** | **0** | **3** | **0** | **18** | **0** | **0** | **0** | **0** | **2** | **0** | **18** | **0** | **0** | **0** | **0** | **2** | **0** | **18** | **0** | **0** | **0** | **1** | **2** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| 1 | **Moduł ogólnouczelniany do wyboru 1** | **12** | **12** | **0** | **0** | **0** | **0** | 12 | | | | | Zoc | **2** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | **Moduł ogólnouczelniany do wyboru 2** | **12** | **12** | **0** | **0** | **0** | **0** | 12 | | | | | Zoc | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | **Wychowanie fizyczne** | **4** | **0** | **4** | **0** | **0** | **0** | | | | | | | | | | | | | | | | 4 | | | | Zoc | **1** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | **Język angielski** | **72** | **0** | **72** | **0** | **0** | **0** | | | | | | | | | | | | | | | | 18 | | | | Zoc | 2 | | 18 | | | | Zoc | 2 | | 18 | | | | Zoc | 2 | | 18 | | | | zoc/E | 2 | | | | | | | |
| **B.** | **MODUŁ KSZTAŁCENIA PODSTAWOWEGO** | **240** | **138** | **66** | **36** | **0** | **0** | **60** | **18** | **18** | **0** | **0** | **2** | **14** | **42** | **24** | **18** | **0** | **0** | **1** | **9** | **36** | **24** | **0** | **0** | **0** | **1** | **8** | **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** |
| 1 | **Matematyka** | **42** | **24** | **18** | **0** | **0** | **0** | 24 | 18 | | | | E | **5** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | **Fizyka** | **36** | **18** | **0** | **18** | **0** | **0** | | | | | | | | **18** | | **18** | | | Zoc | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | **Wprowadzenie do techniki** | **18** | **18** | **0** | **0** | **0** | **0** | 18 | | | | | Zoc | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | **Matematyka dyskretna** | **48** | **24** | **24** | **0** | **0** | **0** | | | | | | | | 24 | 24 | | | | E | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | **Podstawy elektroniki i miernictwa** | **36** | **18** | **0** | **18** | **0** | **0** | 18 | | 18 | | | E | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | **Podstawy metod probabilistycznych i statystyki** | **48** | **24** | **24** | **0** | **0** | **0** | | | | | | | | | | | | | | | 24 | 24 | | | | E | **6** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | **Podstawy teorii informacji** | **12** | **12** | **0** | **0** | **0** | **0** | | | | | | | | | | | | | | | 12 | | | | | zoc | **2** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | **Szkolenie biblioteczne** | **4** | **4** | | | | | 4 | | | | | **Zal** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | **Bezpieczeństwo i higiena pracy** | **4** | **4** | | | | | 4 | | | | | **Zal** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | **Praktyka** | **600** | **600** | | | | | | | | | | | | **200** | | | | | Zoc | 6 | | | | | | | | **200** | | | | | Zoc | 6 | | | | | | | | **200** | | | | | Zoc | 8 | | | | | | | |

*) Po zaliczeniu praktyk obowiązkowych student może realizować praktyki fakultatywne

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| **C.** | **MODUŁ KSZTAŁCENIA KIERUNKOWE** | **534** | **264** | **36** | **180** | **12** | **42** | **42** | **24** | **18** | **0** | **0** | **1** | **12** | **60** | **12** | **42** | **0** | **0** | **1** | **15** | **60** | **0** | **66** | **0** | **0** | **2** | **19** | **48** | **0** | **30** | **0** | **0** | **2** | **10** | **42** | **0** | **24** | **0** | **18** | **1** | **9** | **12** | **0** | **0** | **12** | **24** | **1** | **7** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| 1 | **Podstawy prawa w informatyce** | **24** | **12** | **12** | **0** | **0** | **0** | 12 | 12 | | | | Zoc | **2** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | **Informatyk na rynku dóbr i usług - zagadnienia prawne** | **24** | **12** | **12** | **0** | **0** | **0** | | | | | | | | 12 | 12 | | | | Zoc | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | **Wprowadzenie do inżynierii komputerowej** | **24** | **12** | **12** | **0** | **0** | **0** | 12 | 12 | | | | E | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | **Podstawy programowania I** | **36** | **18** | **0** | **18** | **0** | **0** | **18** | | **18** | | | Zoc | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | **Podstawy programowania II** | **36** | **18** | **0** | **18** | **0** | **0** | | | | | | | | **18** | | **18** | | | Zoc | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | **Algorytmy i struktury danych** | **30** | **18** | **0** | **12** | **0** | **0** | | | | | | | | **18** | | **12** | | | E | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | **Podstawy grafiki komputerowej** | **24** | **12** | **0** | **12** | **0** | **0** | | | | | | | | 12 | | 12 | | | Zoc | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | **Projektowanie i programowanie obiektowe (I, II)** | **48** | **24** | **0** | **24** | **0** | **0** | | | | | | | | | | | | | | | 12 | | 12 | | | Zoc | 5 | 12 | | 12 | | | Zoc | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | **Sieci komputerowe (I,II)** | **54** | **30** | **0** | **24** | **0** | **0** | | | | | | | | | | | | | | | 12 | | 24 | | | Zoc | 4 | 18 | | | | | E | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | **Bazy danych** | **30** | **18** | **0** | **12** | **0** | **0** | | | | | | | | | | | | | | | 18 | | 12 | | | E | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | **Architektura komputerów** | **36** | **18** | **0** | **18** | **0** | **0** | | | | | | | | | | | | | | | 18 | | 18 | | | E | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | **Systemy operacyjne** | **36** | **18** | **0** | **18** | **0** | **0** | | | | | | | | | | | | | | | | | | | | | | 18 | | 18 | | | E | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | **Projektowanie i wdrażanie systemów informatycznych** | **36** | **18** | **0** | **0** | **0** | **18** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | | | 18 | Zoc | 3 | | | | | | | | | | | | | | | |
| 14 | **Techniki mikroprocesorowe i systemy wbudowane** | **24** | **12** | **0** | **12** | **0** | **0** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 | | 12 | | | Zoc | 2 | | | | | | | | | | | | | | | |
| 15 | **Bezpieczeństwo systemów informatycznych** | **36** | **12** | **0** | **0** | **12** | **12** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 | | | 12 | 12 | E | 5 | | | | | | | |
| 16 | **Metody sztucznej inteligencji** | **36** | **12** | **0** | **12** | **0** | **12** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 | | 12 | | | E | **4** | | | | | 12 | Zoc | **2** | | | | | | | |

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| **Sp.1** | **SPECJALNOŚĆ - Systemy i sieci komputerowe** | **432** | **168** | **0** | **84** | **72** | **108** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **60** | **0** | **24** | **12** | **0** | **1** | **12** | **42** | **0** | **12** | **12** | **36** | **1** | **17** | **42** | **0** | **48** | **0** | **36** | **1** | **11** | **24** | **0** | **0** | **48** | **36** | **0** | **19** |
| 1 | **Projektowanie systemów baz danych** | **24** | **12** | **0** | **0** | **12** | **0** | | | | | | | | | | | | | | | | | | | | | | 12 | | | 12 | | E | **5** | | | | | | | | | | | | | | | | | | | | | |
| 2 | **Programowanie wizualne** | **24** | **12** | **0** | **12** | **0** | **0** | | | | | | | | | | | | | | | | | | | | | | 12 | | 12 | | | Zoc | 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | **Podstawy techniki systemów** | **36** | **24** | **0** | **12** | **0** | **0** | | | | | | | | | | | | | | | | | | | | | | 24 | | 12 | | | Zoc | 3 | | | | | | | | | | | | | | | | | | | | | |
| 4 | **Komputerowe systemy zarządzania** | **12** | **12** | **0** | **0** | **0** | **0** | | | | | | | | | | | | | | | | | | | | | | 12 | | | | | Zoc | 2 | | | | | | | | | | | | | | | | | | | | | |
| 5 | **Systemy mobilne** | **24** | **12** | **0** | **0** | **12** | **0** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 | | | 12 | | Zoc | 3 | | | | | | | | | | | | | | | |
| 6 | **Administrowanie systemem UNIX** | **12** | **0** | **0** | **12** | **0** | **0** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 | | | Zoc | 2 | | | | | | | | | | | | | | | |
| 7 | **Administrowanie systemem Windows Server** | **24** | **0** | **0** | **24** | **0** | **0** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 24 | | | Zoc | 2 | | | | | | | |
| 8 | **Wybrane zagadnienia sieci komputerowych** | **30** | **18** | **0** | **0** | **0** | **12** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | | | 12 | E | 6 | | | | | | | | | | | | | | |
| 9 | **Podstawy symulacji komputerowej** | **48** | **24** | **0** | **24** | **0** | **0** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 24 | | 24 | | | E | 4 | | | | | | | |
| 10 | **Seminarium dyplomowe (I, II, III)** | **60** | **0** | **0** | **0** | **0** | **60** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 | Zoc | 2 | | | | | 24 | Zoc | 2 | | | | | 24 | Zoc | 2 |
| 11 | **Projekt zespołowy** | **24** | **0** | **0** | **0** | **24** | **0** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 24 | | Zoc | 6 |
| 12 | **Pracownia projektowania systemów i sieci komputer.** | **24** | **0** | **0** | **0** | **24** | **0** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 24 | | Zoc | 6 |
| 13 | **Przedmiot wybieralny A** | **24** | **12** | **0** | **0** | **0** | **12** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 | | | | 12 | Zoc | 4 | | | | | | | | | | | | | | |
| 14 | **Przedmiot wybieralny B** | **30** | **18** | **0** | **0** | **0** | **12** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | | | 12 | Zoc | 3 | | | | | | | |
| 15 | **Przedmiot wybieralny C** | **36** | **24** | **0** | **0** | **0** | **12** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 24 | | | | 12 | Zoc | 5 |

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| Sp.2 | **SPECJALNOŚĆ - Grafika komputerowa** | **452** | **156** | **24** | **96** | **80** | **96** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | **Prezentacje multimedialne** | 20 | 12 | 0 | 0 | 8 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 2 | **Programowanie wizualne** | 24 | 12 | 0 | 12 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 3 | **Zaawansowane metody grafiki komputerowej** | 36 | 12 | 0 | 12 | 12 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 4 | **Podstawy kompozycji graficznych** | 36 | 12 | 12 | 12 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 5 | **Systemy mobilne** | 24 | 12 | 0 | 0 | 12 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 6 | **Programy graficzne i DTP (I, II)** | 60 | 24 | 0 | 36 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 7 | **Cyfrowy montaż i obróbka plików multimedialnych** | 12 | 0 | 0 | 12 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 8 | **Rysunek techniczny i AUTO-CAD** | 42 | 18 | 12 | 12 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 9 | **Seminarium dyplomowe (I, II, III)** | 60 | 0 | 0 | 0 | 0 | 60 | | | | | | | | | | | | | | | | | | | | | |
| 10 | **Projekt zespołowy** | 24 | 0 | 0 | 0 | 24 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 11 | **Pracownia projektowania aplikacji graficznych** | 24 | 0 | 0 | 0 | 24 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 12 | **Przedmiot wybieralny A** | 24 | 12 | 0 | 0 | 0 | 12 | | | | | | | | | | | | | | | | | | | | | |
| 13 | **Przedmiot wybieralny B** | 30 | 18 | 0 | 0 | 0 | 12 | | | | | | | | | | | | | | | | | | | | | |
| 14 | **Przedmiot wybieralny C** | 36 | 24 | 0 | 0 | 0 | 12 | | | | | | | | | | | | | | | | | | | | | |
| Sp.3 | **SPECJALNOŚĆ - Systemy multimedialne i internetowe** | **438** | **162** | **0** | **96** | **72** | **108** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | **Języki hipertekstowe** | 24 | 12 | 0 | 12 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 2 | **Programowanie wizualne** | 24 | 12 | 0 | 12 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 3 | **Podstawy kompozycji plastycznych** | 12 | 12 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 4 | **Programowanie w internecie (I, II)** | 48 | 24 | 0 | 12 | 12 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 5 | **Internetowe bazy danych** | 24 | 12 | 0 | 12 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 6 | **Systemy mobilne** | 24 | 12 | 0 | 0 | 12 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 7 | **Administrowanie systemem UNIX** | 12 | 0 | 0 | 12 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 8 | **Cyfrowy montaż i obróbka plików multimedialnych** | 12 | 0 | 0 | 12 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 9 | **Administrowanie systemem Windows Server** | 24 | 0 | 0 | 24 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 10 | **Hurtownie danych dla e-biznesu** | 36 | 24 | 0 | 0 | 0 | 12 | | | | | | | | | | | | | | | | | | | | | |
| 11 | **Seminarium dyplomowe (I, II, III)** | 60 | 0 | 0 | 0 | 0 | 60 | | | | | | | | | | | | | | | | | | | | | |
| 12 | **Projekt zespołowy** | 24 | 0 | 0 | 0 | 24 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 13 | **Pracownia projektowania aplikacji internetowych** | 24 | 0 | 0 | 0 | 24 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 14 | **Przedmiot wybieralny A** | 24 | 12 | 0 | 0 | 0 | 12 | | | | | | | | | | | | | | | | | | | | | |
| 15 | **Przedmiot wybieralny B** | 30 | 18 | 0 | 0 | 0 | 12 | | | | | | | | | | | | | | | | | | | | | |
| 16 | **Przedmiot wybieralny C** | 36 | 24 | 0 | 0 | 0 | 12 | | | | | | | | | | | | | | | | | | | | | |
| | **Praca dyplomowa** | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | **RAZEM A+B+C+Sp.1** *(bez godzin praktyk i pracy dyplomowej)* | **1 306** | **594** | **178** | **300** | **84** | **150** | **126** | **42** | **36** | **0** | **0** | **3** | **30** | **102** | **36** | **60** | **0** | **0** | **2** | **30** | **96** | **46** | **66** | **0** | **0** | **3** | **30** |
| | **Liczba godzin w semestrze** | | | | | | | **204** | | | | | | | **198** | | | | | | | **208** | | | | | | |
| | *Udział wykładów* | **45,5%** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | **RAZEM A+B+C+Sp.2** *(bez godzin praktyk i pracy dyplomowej)* | **1 326** | **582** | **202** | **312** | **92** | **138** | **126** | **42** | **36** | **0** | **0** | **3** | **30** | **102** | **36** | **60** | **0** | **0** | **2** | **30** | **96** | **46** | **66** | **0** | **0** | **3** | **30** |
| | **Liczba godzin w semestrze** | | | | | | | **204** | | | | | | | **198** | | | | | | | **208** | | | | | | |
| | *Udział wykładów* | **43,9%** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | **RAZEM A+B+C+Sp.3** *(bez godzin praktyk i pracy dyplomowej)* | **1 312** | **588** | **178** | **312** | **84** | **150** | **126** | **42** | **36** | **0** | **0** | **3** | **30** | **102** | **36** | **60** | **0** | **0** | **2** | **30** | **96** | **46** | **66** | **0** | **0** | **3** | **30** |
| | **Liczba godzin w semestrze** | | | | | | | **204** | | | | | | | **198** | | | | | | | **208** | | | | | | |
| | *Udział wykładów* | **44,8%** | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sp.2 | **SPECJALNOŚĆ - Grafika komputerowa** | 48 | 12 | 36 | 8 | 0 | 1 | 12 | 36 | 0 | 24 | 24 | 24 | 1 | 17 | 48 | 12 | 36 | 0 | 36 | 1 | 11 | 24 | 0 | 0 | 48 | 36 | 0 | 19 |
| 1 | **Prezentacje multimedialne** | 12 | | | 8 | | zoc | 2 | | | | | | | | | | | | | | | | | | | | | |
| 2 | **Programowanie wizualne** | 12 | | 12 | | | Zoc | 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | **Zaawansowane metody grafiki komputerowej** | 12 | | 12 | | | E | 5 | | | | 12 | | Zoc | 2 | | | | | | | | | | | | | | |
| 4 | **Podstawy kompozycji graficznych** | 12 | 12 | 12 | | | Zoc | 3 | | | | | | | | | | | | | | | | | | | | | |
| 5 | **Systemy mobilne** | | | | | | | | 12 | | | 12 | | Zoc | 3 | | | | | | | | | | | | | | |
| 6 | **Programy graficzne i DTP (I, II)** | | | | | | | | 12 | | 12 | | | E | 4 | 12 | | 24 | | | Zoc | 2 | | | | | | | |
| 7 | **Cyfrowy montaż i obróbka plików multimedialnych** | | | | | | | | | | 12 | | | Zoc | 2 | | | | | | | | | | | | | | |
| 8 | **Rysunek techniczny i AUTO-CAD** | | | | | | | | | | | | | | | 18 | 12 | 12 | | | E | 4 | | | | | | | |
| 9 | **Seminarium dyplomowe (I, II, III)** | | | | | | | | | | | | 12 | Zoc | 2 | | | | | 24 | Zoc | 2 | | | | | 24 | Zoc | 2 |
| 10 | **Projekt zespołowy** | | | | | | | | | | | | | | | | | | | | | | | | | 24 | | Zoc | 6 |
| 11 | **Pracownia projektowania aplikacji graficznych** | | | | | | | | | | | | | | | | | | | | | | | | | 24 | | Zoc | 6 |
| 12 | **Przedmiot wybieralny A** | | | | | | | | 12 | | | | 12 | Zoc | 4 | | | | | | | | | | | | | | |
| 13 | **Przedmiot wybieralny B** | | | | | | | | | | | | | | | 18 | | | | 12 | Zoc | 3 | | | | | | | |
| 14 | **Przedmiot wybieralny C** | | | | | | | | | | | | | | | | | | | | | | 24 | | | | 12 | Zoc | 5 |
| Sp.3 | **SPECJALNOŚĆ - Systemy multimedialne i internetowe** | 60 | 0 | 48 | 0 | 0 | 1 | 12 | 36 | 0 | 24 | 24 | 24 | 1 | 17 | 42 | 0 | 24 | 0 | 48 | 1 | 11 | 24 | 0 | 0 | 48 | 36 | 0 | 19 |
| 1 | **Języki hipertekstowe** | 12 | | 12 | | | Zoc | 4 | | | | | | | | | | | | | | | | | | | | | |
| 2 | **Programowanie wizualne** | 12 | | 12 | | | Zoc | 2 | | | | | | | | | | | | | | | | | | | | | |
| 3 | **Podstawy kompozycji plastycznych** | 12 | | | | | Zoc | 1 | | | | | | | | | | | | | | | | | | | | | |
| 4 | **Programowanie w internecie (I, II)** | 12 | | 12 | | | Zoc | 3 | 12 | | | 12 | | E | 4 | | | | | | | | | | | | | | |
| 5 | **Internetowe bazy danych** | 12 | | 12 | | | E | 2 | | | | | | | | | | | | | | | | | | | | | |
| 6 | **Systemy mobilne** | | | | | | | | 12 | | | 12 | | Zoc | 3 | | | | | | | | | | | | | | |
| 7 | **Administrowanie systemem UNIX** | | | | | | | | | | 12 | | | Zoc | 2 | | | | | | | | | | | | | | |
| 8 | **Cyfrowy montaż i obróbka plików multimedialnych** | | | | | | | | | | 12 | | | Zoc | 2 | | | | | | | | | | | | | | |
| 9 | **Administrowanie systemem Windows Server** | | | | | | | | | | | | | | | | | 24 | | | Zoc | 2 | | | | | | | |
| 10 | **Hurtownie danych dla e-biznesu** | | | | | | | | | | | | | | | 24 | | | | 12 | E | 4 | | | | | | | |
| 11 | **Seminarium dyplomowe (I, II, III)** | | | | | | | | | | | | 12 | Zoc | 2 | | | | | 24 | Zoc | 2 | | | | | 24 | Zoc | 2 |
| 12 | **Projekt zespołowy** | | | | | | | | | | | | | | | | | | | | | | | | | 24 | | Zoc | 6 |
| 13 | **Pracownia projektowania aplikacji internetowych** | | | | | | | | | | | | | | | | | | | | | | | | | 24 | | Zoc | 6 |
| 14 | **Przedmiot wybieralny A** | | | | | | | | 12 | | | | 12 | Zoc | 4 | | | | | | | | | | | | | | |
| 15 | **Przedmiot wybieralny B** | | | | | | | | | | | | | | | 18 | | | | 12 | Zoc | 3 | | | | | | | |
| 16 | **Przedmiot wybieralny C** | | | | | | | | | | | | | | | | | | | | | | 24 | | | | 12 | Zoc | 5 |
| | **Praca dyplomowa** | | | | | | | | | | | | | Zoc | 2 | | | | | | Zoc | 2 | | | | | | Zoc | 11 |
| | **RAZEM A+B+C+Sp.1** *(bez godzin praktyk i pracy dyplomowej)* | **108** | **18** | **54** | **12** | **0** | **3** | **30** | **84** | **18** | **36** | **12** | **54** | **2** | **30** | **54** | **18** | **48** | **12** | **60** | **3** | **30** | **24** | **0** | **0** | **48** | **36** | **0** | **30** |
| | **Liczba godzin w semestrze** | **192** | | | | | | | **204** | | | | | | | **192** | | | | | | | **108** | | | | | | |
| | **RAZEM A+B+C+Sp.2** *(bez godzin praktyk i pracy dyplomowej)* | **96** | **30** | **66** | **8** | **0** | **3** | **30** | **78** | **18** | **48** | **24** | **42** | **2** | **30** | **60** | **30** | **36** | **12** | **60** | **3** | **30** | **24** | **0** | **0** | **48** | **36** | **0** | **30** |
| | **Liczba godzin w semestrze** | **200** | | | | | | | **210** | | | | | | | **198** | | | | | | | **108** | | | | | | |
| | **RAZEM A+B+C+Sp.3** *(bez godzin praktyk i pracy dyplomowej)* | **108** | **18** | **78** | **0** | **0** | **3** | **30** | **78** | **18** | **48** | **24** | **42** | **2** | **30** | **54** | **18** | **24** | **12** | **72** | **3** | **30** | **24** | **0** | **0** | **48** | **36** | **0** | **30** |
| | **Liczba godzin w semestrze** | **204** | | | | | | | **210** | | | | | | | **180** | | | | | | | **108** | | | | | | |

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Dziekan

**Zatwierdzony przez Radę Wydziału Nauk Technicznych i Ekonomicznych w dniu 18.06.2015 r.**