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Kierunek studiów: ROLNICTWO
Poziom studiów: studia I stopnia
Forma studiów: stacjonarne
Profil studiów: ogólnoakademicki
Cykl dydaktyczny: 2019/2020

**HARMONOGRAM STUDIÓW**

**załącznik 1a**

| kod przedmiotu | nazwa przedmiotu | forma zaliczenia | ogólna liczba godzin/pkt. ECTS | | | | | | | | liczba godzin i pkt. ECTS w semestrze | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | semestr I | | | | | | | semestr II | | | | | | | semestr III | | | | | | | semestr IV | | | | | | | semestr V | | | | | | | semestr VI | | | | | | | semestr VII | | | | | | |
| | | | suma | W | K | L | P | S | T | ECTS | W | K | L | P | S | T | ECTS | W | K | L | P | S | T | ECTS | W | K | L | P | S | T | ECTS | W | K | L | P | S | T | ECTS | W | K | L | P | S | T | ECTS | W | K | L | P | S | T | ECTS | W | K | L | P | S | T | ECTS |
| A. PRZEDMIOTY PODSTAWOWE | | | **420** | **165** | **15** | **165** | **75** | **0** | **0** | **31** | **75** | **15** | **105** | **0** | **0** | **0** | **15** | **30** | **0** | **60** | **0** | **0** | **0** | **7** | **15** | **0** | **0** | **45** | **0** | **0** | **4** | **15** | **0** | **0** | **30** | **0** | **0** | **3** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **30** | **0** | **0** | **0** | **0** | **0** | **2** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| 6-Mat | Matematyka | ZO | 30 | 15 | 15 | | | | | 2 | 15 | 15 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-Fiz | Fizyka | ZO | 30 | 15 | | 15 | | | | 2 | 15 | | 15 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-CO | Chemia ogólna | ZO | 45 | 15 | | 30 | | | | 3 | 15 | | 30 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-GI | Grafika inżynierska | ZO | 60 | 15 | | | 45 | | | 4 | | | | | | | | | | | | | | | 15 | | | 45 | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6-PPIT | Podstawy projektowaniai IT dla inżynierów | ZO | 45 | 15 | | | 30 | | | 3 | | | | | | | | | | | | | | | | | | | | | | 15 | | | 30 | | | 3 | | | | | | | | | | | | | | | | | | | | | |
| 6-PPIT | Podstawy przedsiębiorczości | ZO | 30 | 30 | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | | | | 2 | | | | | | | |
| 6.23-CO | Chemia organiczna | EGZ/ZO | 45 | 15 | | 30 | | | | 4 | | | | | | | | 15 | | 30 | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-Z | Zoologia | ZO | 45 | 15 | | 30 | | | | 4 | 15 | | 30 | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-BOS | Botanika ogólna i systematyczna | EGZ/ZO | 45 | 15 | | 30 | | | | 4 | 15 | | 30 | | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-Bch | Biochemia | EGZ/ZO | 45 | 15 | | 30 | | | | 3 | | | | | | | | 15 | | 30 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. PRZEDMIOTY KIERUNKOWE | | | **1290** | **525** | **300** | **165** | **150** | **120** | **60** | **101** | **60** | **60** | **0** | **30** | **0** | **20** | **13** | **90** | **30** | **60** | **15** | **0** | **20** | **17** | **105** | **75** | **60** | **30** | **0** | **10** | **20** | **75** | **15** | **45** | **30** | **0** | **10** | **15** | **75** | **60** | **0** | **0** | **60** | **0** | **15** | **60** | **45** | **0** | **0** | **60** | **0** | **12** | **60** | **15** | **0** | **45** | **0** | **0** | **9** |
| 6.23-OPK | Ochrona przyrody i krajobrazu | ZO | 40 | 15 | 15 | | | | 10 | 3 | 15 | 15 | | | | 10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-Amet | Agrometeorologia | ZO | 45 | 15 | 30 | | | | | 3 | 15 | 30 | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-GG | Geomorfologia i geologia | ZO | 30 | 15 | 15 | | | | | 2 | | | | | | | | 15 | 15 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-SOR | Szkodniki i ochrona roślin | ZO | 55 | 30 | | | 15 | | 10 | 5 | | | | | | | | 30 | | | 15 | | 10 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-FR | Fizjologia roślin | EGZ/ZO | 45 | 15 | | 30 | | | | 3 | | | | | | | | 15 | | 30 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-GKT | Geodezja, kartografia i teledetekcja | ZO | 45 | 15 | | | 30 | | | 4 | 15 | | | 30 | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-G | Gleboznawstwo | EGZ/ZO | 85 | 30 | 15 | 30 | | | 10 | 7 | | | | | | | | 30 | 15 | 30 | | | 10 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-Mik | Mikrobiologia | ZO | 45 | 15 | | 30 | | | | 3 | | | | | | | | | | | | | | | 15 | | 30 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-GEN | Genetyka | ZO | 45 | 15 | | 30 | | | | 3 | | | | | | | | | | | | | | | 15 | | 30 | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-PPR | Podstawy produkcji roślinnej | EGZ/ZO | 70 | 30 | 30 | | | | 10 | 6 | | | | | | | | | | | | | | | 30 | 30 | | | | 10 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-AiZ | Agroekonomia i zarządzanie | ZO | 45 | 15 | 30 | | | | | 3 | | | | | | | | | | | | | | | 15 | 30 | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-RPr | Rolnictwo precyzyjne | EGZ/ZO | 45 | 15 | | | 30 | | | 3 | | | | | | | | | | | | | | | 15 | | | 30 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-PAR | Prawne aspekty rolnictwa | ZO | 30 | 15 | 15 | | | | | 2 | | | | | | | | | | | | | | | 15 | 15 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-EKO | Ekologia ogólna i agroekologia | ZO | 40 | 15 | 15 | | | | 10 | 3 | 15 | 15 | | | | 10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.23-HRIN | Hodowla roślin i nasiennictwo | EGZ/ZO | 70 | 30 | | 30 | | | 10 | 6 | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | 10 | 6 | | | | | | | | | | | | | | | | | | | | | |
| 6.23-PPR | Podstawy produkcji zwierzęcej | ZO | 60 | 30 | | | 30 | | | 5 | | | | | | | | | | | | | | | | | | | | | | 30 | | | 30 | | | 5 | | | | | | | | | | | | | | | | | | | | | |
| 6.23-PZPR | Planowanie i zagospodarowanie przestrzenne w rolnictwie | ZO | 45 | 15 | | | | 30 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | 30 | | 3 | | | | | | | |
| 6.23-CR | Chemia rolna | ZO | 45 | 15 | 15 | 15 | | | | 4 | | | | | | | | | | | | | | | | | | | | | | 15 | 15 | 15 | | | | 4 | | | | | | | | | | | | | | | | | | | | | |
| 6.23-TR | Technika rolnicza | ZO | 45 | 15 | | | | 30 | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | 30 | | 4 | | | | | | | | | | | | | | |
| 6.23-MPH | Melioracje z podstawami hydrologii | EGZ/ZO | 45 | 15 | | | | 30 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | 30 | | 3 | | | | | | | | | | | | | | |
| 6.23-OŚWZ | Ochrona środowiska wybrane zagadnienia | EGZ/ZO | 45 | 15 | 30 | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 30 | | | | | 3 | | | | | | | | | | | | | | |
| 6.23-Pwet | Profilaktyka weterynaryjna | ZO | 60 | 30 | 30 | | | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 30 | | | | | 5 | | | | | | | | | | | | | | |
| 6.23-Zh | Zoohigiena | ZO | 30 | 15 | 15 | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 15 | | | | | 3 | | | | | | | |
| 6.23-BMOUR | Biologiczne metody ochrony upraw rolnych | ZO | 30 | 15 | 15 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 15 | | | | | 2 | | | | | | | |
| 6.23-Rorg | Rolnictwo organiczne | ZO | 30 | 15 | 15 | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 15 | | | | | 2 | | | | | | | |
| 6.23-PZKR | Prokektowanie zrównoważonych krajobrazów rolniczych | ZO | | | | | | 30 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 2 | | | | | | | |
| 6.23-WGŚR | Gospodarka wodno-ściekowa w rolnictwie | ZO | 45 | 15 | | | 30 | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 30 | | | 4 |
| 6.23-ZC | Zagrożenia cywilizacyjne | ZO | 45 | 30 | 15 | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 15 | | | | | 3 |
| 6.23-OZER | Odnawialne źródła energii w rolnictwie | ZO | 30 | 15 | | | 15 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 15 | | | 2 |

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| | | | | | | | | | | | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | 0 | 0 | 4 | 0 | 0 | 0 | 45 | 0 | 0 | 7 | 0 | 0 | 0 | 15 | 0 | 0 | 9 | 0 | 0 | 0 | 90 | 0 | 0 | 11 | 0 | 0 | 0 | 30 | 0 | 0 | 19 |
| | Kurs stały | ZO | 360 | | | | | | | 22 | | | | | | | | | | | | | | 4 | | | | | | | 4 | | | | | | | 3 | | | | | | | 2 | | | | | | | 5 | | | | | | | 4 |
| | Praktyka zawodowa | ZO | 0 | | | | | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | |
| 6.23-WBN | wprowadzenie do badań naukowych | ZO | 45 | | | | 45 | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | 45 | | | 4 | | | | | | | | | | | | | | | | | | | | | |
| 6.23-PS | przedmiot specjalizacyjny | ZO | 15 | | | | 15 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 2 | | | | | | | | | | | | | | |
| 6.23-SD1 | Seminarium dyplomowe I | ZO | 30 | | | | 30 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | 2 | | | | | | | |
| 6.23-PI | Pracownia inżynierska | ZO | 60 | | | | 60 | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 60 | | | 4 | | | | | | | |
| 6.23-SD2 | Seminarium dyplomowe II | ZO | 30 | | | | 30 | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | 15 |
| D. PRZEDMIOTY MODUŁU/W ZAKRESIE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E. INNE PRZEDMIOTY OBOWIĄZKOWE | | | 338 | 0 | 120 | 30 | 30 | 0 | 0 | 24 | 0 | 0 | 30 | 0 | 0 | 0 | 2 | 0 | 0 | 30 | 0 | 0 | 0 | 2 | 0 | 0 | 30 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 30 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6.23-TI | Technologia informacyjna | ZO | 30 | | | 30 | | | | 2 | | | 30 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0105-BHP | Szkolenie BHP | ZAL | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ergonomia | ZAL | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0103-PB | Szkolenie biblioteczne | ZAL | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Wychowanie fizyczne | ZAL | 60 | | | | | | | | | | | | | | | | | 30 | | | | | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Język obcy | EGZ/ZO | 120 | | 120 | | | | | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | 4 | | | | | | | | | | | | | | |
| 6.23-PTT | Photography - technics and technology | ZO | 30 | | | | 30 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | 3 | | | | | | | |
| | Kurs zmienny ogólnouczelniany (w tym 1 z obszaru nauk społ. I 1 z humanistycznych) | ZO | 90 | | | | | | | 12 | | | | | | | | | | | | | | 2 | | | | | | | 2 | | | | | | | 2 | | | | | | | 2 | | | | | | | 2 | | | | | | | 2 |
| | Szkolenie z zakresu ochrony własności intelektualnej | ZAL | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RAZEM | | 2588 | 690 | 435 | 360 | 435 | 120 | 60 | 210 | 135 | 75 | 135 | 30 | 0 | 20 | 30 | 120 | 30 | 150 | 15 | 0 | 20 | 30 | 120 | 75 | 90 | 75 | 0 | 10 | 30 | 90 | 15 | 45 | 105 | 0 | 10 | 30 | 75 | 60 | 0 | 15 | 60 | 0 | 30 | 90 | 45 | 0 | 120 | 60 | 0 | 30 | 60 | 15 | 0 | 75 | 0 | 0 | 30 |

**Legenda**

W-wykład

K-konwersatorium

L-laboratorium

P - pracownia

S-seminarium

T - kurs terenowy

1) Przysposobienie biblioteczne - 2 godziny jednorazowo w I semestrze (zaliczenie zez oceny, bez punktów ECTS)
2) Szkolenie BHP - 4 godziny jednorazowo w I semestrze (zaliczenie bez oceny, bez punktów ECTS)
3) Ochrona własności intelektualnej - 2 godziny jednorazowo w V semestrze (zaliczenie bez oceny, bez punktów ECTS)
4) Ergonomia - 2 godziny jednorazowo w VI semestrze (zaliczenie bez oceny, bez punktóe ECTS)
5) Język obcy na poziomie B2 w wymiarze 120 godzin, realizowany w dwóch kolejnych semestrach po 60 godzin, do wyboru od II do V semestru, (w drugim semestrze nauki języka - egzamin), wpis punktów za język w semestrze IV - 3p. ECTS i w semestrze V - 4 p. ECTS
6) wychowanie fizyczne w wymiarze 60 godzin, realizowane w dwóch semestrach po 30 godzin (w II i III semestrze), zaliczenie bez oceny, bez punktów ECTS
7) praktyka zawodowa 4 tygodnie w IV semestrze (realizacja lipiec-wrzesień), zaliczana w V semestrze (wpis 5 p. ECTS)
8) kurs w języku nowożytnym z dyscypliny innej niż wiodąca dla kierunku (Photography - technics and technology), realizowany w VI semestrze (30 godzin, 2 p. ECTS)
9) od II semestru studenci mają obowiązek realizacji kursu ogólnouczelnianego - jeden kurs w każdym semestrze za 2 p. ECTS, (zapisy w semestrze poprzedzającym realizację poprzez system USOS) z tym że do realizacji w III semestrze studenci wybierają kurs ogólnouczelniany z zakresu nauk humanistycznych, a w V semestrze - kurs ogólnouczelniany z zakresu nau społecznych

10) od II semestru studenci realizują również kursy stałe do wyboru z oferty Instytutu Ochrony i Kształtowania Środowiska (lista w załączeniu), w semestrze II za 4p. ECTS, w semestrze III za 4 p. ECTS, w semestrze IV za 3. ECTS, w semestrze V za 2 p. ECTS , w semestrze VI za 5 p. ECTS i w semestrze VII za 4p. ECTS

Dyrektor
Instytutu Ochrony i Kształtowania Środowiska

*prof. dr hab. inż. Czesława Rosik-Dulewska*