**Uniwersytet Technologiczno-Humanistyczny im. Kazimierza Pułaskiego w Radomiu**

**PLAN STUDIÓW NR** ..........................................................................................................

**Nazwa kierunku studiów:** **Projektowanie i wytwarzanie kosmetyków**

**Poziom studiów:** *I stopień*
**Poziom kwalifikacji (PRK):** *6*
**Profil studiów:** *praktyczny*
**Dyscypliny naukowe/artystyczne :** *(wiodąca), inżynieria chemiczna 94% nauki o zarządzaniu i jakości 6%*
**Kod ISCED:** 0711
**Forma studiów:** *stacjonarne*
**Tytuł zawodowy nadawany absolwentom:** *inżynier*

| Lp. | Nazwa przedmiotu/zajęć | Egzamin po sem. | Zaliczenie po sem. | GODZINY: Razem zajęcia dydaktyczne | w tym: forma zajęć dydaktycznych W | ZP | Ć | L | P | S | inne: IGK | ZBN | ECTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A. Grupa zajęć podstawowych | | | | | | | | | | | | |
| | **A. Grupa zajęć podstawowych** | | | | | | | | | | | | |
| 1 | Matematyka | II | I | 150 | 60 | | 90 | | | | | | 12 |
| 2 | Fizyka chemiczna | II | I | 90 | 30 | | | 60 | | | | | 8 |
| 3 | Podstawy chemii | I | | 45 | 15 | | 30 | | | | | | 4 |
| 4 | Systemy zarządzania jakością | | I | 30 | 30 | | | | | | | | 2 |
| 5 | Surfaktanty | II | I | 90 | 45 | | | 45 | | | | | 6 |
| 6 | Podstawy technologii chemicznej | | II | 45 | 15 | | | 30 | | | | | 4 |
| 7 | Podstawy chemii analitycznej | I | | 60 | 15 | | 15 | 30 | | | | | 7 |
| 8 | Budowa i fizjologia skóry | | I | 30 | 15 | | | 15 | | | | | 3 |
| 9 | Wspomaganie komputerowe w projektowaniu kosmetyków | | II | 45 | | | | 45 | | | | | 3 |
| | **Razem grupa zajęć A** | | | **585** | **225** | **0** | **135** | **225** | **0** | **0** | **0** | **0** | **49,0** |
| | **B. Grupa zajęć kierunkowych** | | | | | | | | | | | | |
| | **B 1. Grupa zajęć kierunkowych - obowiązkowych** | | | | | | | | | | | | |
| 10 | Podstawy wiedzy o kosmetykach | I | | 15 | 15 | | | | | | | | 2 |
| 11 | Chemia kosmetyczna | IV | III | 105 | 30 | | | 75 | | | | | 8 |
| 12 | Przemysłowa produkcja kosmetyków | VI | | 60 | 15 | | | 45 | | | | | 4 |
| 13 | Receptury i technologie wytwarzania kosmetyków | IV | III | 105 | 30 | | | 75 | | | | | 9 |
| 14 | Chemia koloidów | | I, II | 60 | 30 | | | 30 | | | | | 5 |
| 15 | Projektowanie kosmetyków | IV | III | 105 | 30 | | | 75 | | | | | 8 |
| 16 | Bezpieczeństwo stosowania kosmetyków | | IV | 30 | 15 | | 15 | | | | | | 1,5 |
| 17 | Surowce kosmetyczne | III | | 90 | 30 | | | 60 | | | | | 5 |
| 18 | Kolagen i jego wykorzystanie w kosmetykach | | V | 45 | 15 | | | 30 | | | | | 4 |
| 19 | Procesy i apartura w przemysle kosmetycznym | | III | 60 | 15 | | | 45 | | | | | 4 |
| 20 | Opakowania do kosmetyków | | II | 15 | 15 | | | | | | | | 1 |
| 21 | Metody badań kosmetyków | | IV | 60 | 15 | | | 45 | | | | | 4 |
| 22 | Ocena jakości surowców kosmetycznych i kosmetyków | | V | 60 | 15 | | | 45 | | | | | 4 |
| 23 | Fizykochemia form kosmetycznych | V | IV | 105 | 30 | | | 75 | | | | | 9 |
| 24 | Projekt przejściowy | | VII | 60 | | | | | 60 | | | | 5 |
| | **Razem grupa zajęć $B_1$** | | | **975** | **300** | **0** | **15** | **600** | **60** | **0** | **0** | **0** | **73,5** |
| | **$B_2$. Grupa zajęć kierunkowych - do wyboru** | | | | | | | | | | | | |
| 25 | Przedmiot do wyboru I (1 z 2) | | V | 30 | 30 | | | | | | | | 2 |
| 25a | Zarządzanie w przemyśle kosmetycznym | | | | | | | | | | | | |
| 25b | Aspekty prawne wprowadzania kosmetyków na rynek | | | | | | | | | | | | |
| 26 | Przedmiot do wyboru II (1 z 2) | V | | 60 | 15 | | | 45 | | | | | 4,5 |
| 26a | Kosmetyki kolorowe | | | | | | | | | | | | |
| 26b | Produkty zapachowe i podstawy perfumerii | | | | | | | | | | | | |
| 27 | Przedmiot do wyboru III (1 z 2) | | VI | 60 | 15 | | | 45 | | | | | 5 |
| 27a | Ochrona środowiska w przemyśle kosmetycznym | | | | | | | | | | | | |
| 27b | Gospodarka odpadami w przemyśle kosmetycznym | | | | | | | | | | | | |
| 28 | Przedmiot do wyboru IV (1 z 2) | V | | 60 | 15 | | | 45 | | | | | 5 |
| 28a | Kosmetyki naturalne | | | | | | | | | | | | |
| 28b | Kosmetyki profesjonalne | | | | | | | | | | | | |
| 29 | Przedmiot do wyboru V (1 z 2) | VI | | 60 | 15 | | | 45 | | | | | 5 |
| 29a | Polimery w kosmetykach | | | | | | | | | | | | |
| 29b | Wytwarzanie opakowań do kosmetyków | | | | | | | | | | | | |
| 30 | Przedmiot do wyboru VI (1 z 2) | | VI | 30 | 30 | | | | | | | | 2 |
| 30a | Wykład monograficzny I | | | | | | | | | | | | |
| 30b | Wykład monograficzny II | | | | | | | | | | | | |
| 31 | Przedmiot do wyboru VII (1 z 2) | VI | | 60 | 15 | | | 45 | | | | | 5 |
| 31a | Towaroznawstwo kosmetyków | | | | | | | | | | | | |
| 31b | Kosmeceutyki | | | | | | | | | | | | |
| | **Razem grupa zajęć B2** | | | **360** | **135** | **0** | **0** | **225** | **0** | **0** | **0** | **0** | **28,5** |
| | **Razem grupa zajęć B** | | | **1335** | **435** | **0** | **15** | **825** | **60** | **0** | **0** | **0** | **102** |

I rok

| Lp. | I semestr: W | ZP | Ć | L | P | S | ECTS | II semestr: W | ZP | Ć | L | P | S | ECTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 30 | | 45 | | | | 6 | 30 | | 45 | | | | 6 |
| 2 | 15 | | | 30 | | | 4 | 15 | | | 30 | | | 4 |
| 3 | 15 | | 30 | | | | 4 | | | | | | | |
| 4 | 30 | | | | | | 2 | | | | | | | |
| 5 | 15 | | | | | | 1 | 30 | | | 45 | | | 5 |
| 6 | | | | | | | | 15 | | | 30 | | | 4 |
| 7 | 15 | | 15 | 30 | | | 7 | | | | | | | |
| 8 | 15 | | | 15 | | | 3 | | | | | | | |
| 9 | | | | | | | | | | | 45 | | | 3 |
| Razem A | **135** | **0** | **90** | **75** | **0** | **0** | **27** | **90** | **0** | **45** | **150** | **0** | **0** | **22** |
| 10 | 15 | | | | | | 2 | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | 15 | | | | | | 1 | 15 | | | 30 | | | 4 |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | |
| 20 | | | | | | | | 15 | | | | | | 1 |
| 21 | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | |
| Razem $B_1$ | **30** | **0** | **0** | **0** | **0** | **0** | **3** | **30** | **0** | **0** | **30** | **0** | **0** | **5** |
| 25–31b | | | | | | | | | | | | | | |
| Razem B2 | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Razem B | **30** | **0** | **0** | **0** | **0** | **0** | **3** | **30** | **0** | **0** | **30** | **0** | **0** | **5** |

II rok

| Lp. | III semestr: W | ZP | Ć | L | P | S | ECTS | IV semestr: W | ZP | Ć | L | P | S | ECTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1–9 | | | | | | | | | | | | | | |
| Razem A | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| 10 | | | | | | | | | | | | | | |
| 11 | 15 | | | 30 | | | 4 | 15 | | | 45 | | | 4 |
| 12 | | | | | | | | | | | | | | |
| 13 | 15 | | | 30 | | | 4 | 15 | | | 45 | | | 5 |
| 14 | | | | | | | | | | | | | | |
| 15 | 15 | | | 30 | | | 4 | 15 | | | 45 | | | 4 |
| 16 | | | | | | | | 15 | | 15 | | | | 1,5 |
| 17 | 30 | | | 60 | | | 5 | | | | | | | |
| 18 | | | | | | | | | | | | | | |
| 19 | 15 | | | 45 | | | 4 | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | | | | | | | 15 | | | 45 | | | 4 |
| 22 | | | | | | | | | | | | | | |
| 23 | | | | | | | | 15 | | | 45 | | | 5 |
| 24 | | | | | | | | | | | | | | |
| Razem $B_1$ | **90** | **0** | **0** | **195** | **0** | **0** | **21,0** | **90** | **0** | **15** | **225** | **0** | **0** | **23,5** |
| 25–31b | | | | | | | | | | | | | | |
| Razem B2 | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | 0 |
| Razem B | **90** | **0** | **0** | **195** | **0** | **0** | **21** | **90** | **0** | **15** | **225** | **0** | **0** | **23,5** |

III rok / IV rok

| Lp. | V semestr: W | ZP | Ć | L | P | S | ECTS | VI semestr: W | ZP | Ć | L | P | S | ECTS | VII semestr: W | ZP | Ć | L | P | S | ECTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1–9 | | | | | | | | | | | | | | | | | | | | | |
| Razem A | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | 15 | | | 45 | | | 4 | | | | | | | |
| 13–17 | | | | | | | | | | | | | | | | | | | | | |
| 18 | 15 | | | 30 | | | 4 | | | | | | | | | | | | | | |
| 19–21 | | | | | | | | | | | | | | | | | | | | | |
| 22 | 15 | | | 45 | | | 4 | | | | | | | | | | | | | | |
| 23 | 15 | | | 30 | | | 4 | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | 60 | | 5 |
| Razem $B_1$ | **45** | **0** | **0** | **105** | **0** | **0** | **12** | **15** | **0** | **0** | **45** | **0** | **0** | **4** | **0** | **0** | **0** | **0** | **60** | **0** | **5** |
| 25 | 30 | | | | | | 2 | | | | | | | | | | | | | | |
| 25a–25b | | | | | | | | | | | | | | | | | | | | | |
| 26 | 15 | | | 45 | | | 4,5 | | | | | | | | | | | | | | |
| 26a–26b | | | | | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | 15 | | | 45 | | | 5 | | | | | | | |
| 27a–27b | | | | | | | | | | | | | | | | | | | | | |
| 28 | 15 | | | 45 | | | 5 | | | | | | | | | | | | | | |
| 28a–28b | | | | | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | 15 | | | 45 | | | 5 | | | | | | | |
| 29a–29b | | | | | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | 30 | | | | | | 2 | | | | | | | |
| 30a–30b | | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | 15 | | | 45 | | | 5 | | | | | | | |
| 31a–31b | | | | | | | | | | | | | | | | | | | | | |
| Razem B2 | **60** | **0** | **0** | **90** | **0** | **0** | **11,5** | **75** | **0** | **0** | **135** | **0** | **0** | **17** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
| Razem B | **105** | **0** | **0** | **195** | **0** | **0** | **23,5** | **90** | **0** | **0** | **180** | **0** | **0** | **21** | **0** | **0** | **0** | **0** | **60** | **0** | **5** |

| Lp. | Nazwa przedmiotu/zajęć | Egzamin po sem. | Zaliczenie po sem. | GODZINY | | | | | | | | | ECTS | I rok | | | | | | | | | | | | II rok | | | | | | | | | | | | III rok | | | | | | | | | | | | IV rok | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Razem | w tym | | | | | | inne | | | I semestr | | | | | | | | II semestr | | | | | | | | III semestr | | | | | | | | IV semestr | | | | | | | | V semestr | | | | | | | | VI semestr | | | | | | | | VII semestr | | | | | | |
| | | | | zajęcia dydaktyczne | forma zajęć dydaktycznych | | | | | | | | | forma zajęć dydaktycznych | | | | | | | | forma zajęć dydaktycznych | | | | | | | | forma zajęć dydaktycznych | | | | | | | | forma zajęć dydaktycznych | | | | | | | | forma zajęć dydaktycznych | | | | | | | | forma zajęć dydaktycznych | | | | | | | |
| | | | | | W | ZP | Ć | L | P | S | IGK | ZBN | | W | ZP | Ć | L | P | S | | W | ZP | Ć | L | P | S | | W | ZP | Ć | L | P | S | | W | ZP | Ć | L | P | S | | W | ZP | Ć | L | P | S | | W | ZP | Ć | L | P | S | | W | ZP | Ć | L | P | S | |
| **D. Grupa zajęć z dziedziny nauk humanistycznych lub nauk społecznych** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **D 1. Grupa zajęć z dziedziny nauk humanistycznych lub nauk społecznych - obowiązkowych** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | Kultura języka polskiego | | II | 30 | 30 | | | | | | | | *3* | | | | | | | | 30 | | | | | *3* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **D 2. Grupa zajęć z dziedziny nauk humanistycznych lub nauk społecznych - do wyboru** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | Przedmiot z obszaru nauk humanistycznych lub nauk społecznych z oferty ogólnouczelnianej | | III | 30 | 30 | | | | | | | | *2* | | | | | | | | | | | | | | 30 | | | | | | | *2* | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Razem grupa zajęć D** | | | | **60** | **60** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **5** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **30** | **0** | **0** | **0** | **0** | **0** | **3** | **30** | **0** | **0** | **0** | **0** | **0** | **2** | **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** |
| **E. Grupa zajęć ogólnouczelnianych** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **E 1. Grupa zajęć ogólnouczelnianych - obowiązkowych** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | Ochrona własności przemysłowej i prawo autorskie | | III | 10 | 10 | | | | | | | | *0,5* | | | | | | | | | | | | | | 10 | | | | | | | *0,5* | | | | | | | | | | | | | | | | | | | | | | | | | |
| **E 2. Grupa zajęć ogólnouczelnianych -- ograniczonego wyboru** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | Język obcy | | III, IV, V, VI | 120 | | | 120 | | | | | | *6* | | | | | | | | | | | | | | | | 30 | | | | | *1,5* | | | 30 | | | | | *1,5* | | | 30 | | | | | *1,5* | | | 30 | | | | | *1,5* | | | | | |
| 36 | Wychowanie fizyczne | | | 60 | | | 60 | | | | | | *0* | | | 30 | | | | | | | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Razem grupa zajęć E** | | | | **190** | **10** | **0** | **180** | **0** | **0** | **0** | **0** | **0** | **6,5** | **0** | **0** | **30** | **0** | **0** | **0** | **0** | **0** | **0** | **30** | **0** | **0** | **0** | **0** | **10** | **0** | **30** | **0** | **0** | **0** | **2** | **0** | **0** | **30** | **0** | **0** | **0** | **1,5** | **0** | **0** | **30** | **0** | **0** | **0** | **1,5** | **0** | **0** | **30** | **0** | **0** | **0** | **1,5** | **0** | **0** | **0** | **0** | **0** | **0** |
| **F. Praktyka** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | Praktyka zawodowa - 1 miesiąc w trakcie 3 semestru | | III, IV, V, VI, VII | | | | | | | | | | *5* | | | | | | | | | | | | | | 1 miesiąc | | | | | | | *5* | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Praktyka zawodowa - 1 miesiąc w trakcie 4 semestru | | | | | | | | | | | | *5* | | | | | | | | | | | | | | | | | | | | | | 1 miesiąc | | | | | | | *5* | | | | | | | | | | | | | | | | | |
| | Praktyka zawodowa - 1 miesiąc w trakcie 5 semestru | | | | | | | | | | | | *5* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 miesiąc | | | | | | | *5* | | | | | | | | | | |
| | Praktyka zawodowa - 1,5 miesiąca w trakcie 6 semestru | | | | | | | | | | | | *7,5* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1,5 miesiąca | | | | | *7,5* | | | |
| | Praktyka zawodowa - 1,5 miesiąca w trakcie 7 semestru | | | | | | | | | | | | *7,5* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1, 5 miesiąca | | | | | *7,5* |
| **Razem grupa zajęć F** | | | | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **30** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **5** | **0** | **0** | **0** | **0** | **0** | **0** | **5** | **0** | **0** | **0** | **0** | **0** | **0** | **5** | **0** | **0** | **0** | **0** | **0** | **0** | **7,5** | **0** | **0** | **0** | **0** | **0** | **0** | **7,5** |
| **H. Grupa zajęć: Przygotowanie pracy dyplomowej lub/i przygotowanie do egzaminu dyplomowego** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | Seminarium dyplomowe | | VII | 30 | | | | | | | 30 | | *2,5* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | Przygotowanie i złożenie pracy dyplomowej | | VII | 90 | | | | 90 | | | | | *15* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Razem grupa zajęć H** | | | | **120** | **0** | **0** | **0** | **90** | **0** | **30** | **0** | **0** | **17,5** | **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** | **0** | **0** |
| | **Razem A+B+C+D+E+F (ECTS)+G+H** | | | **2290** | **730** | **0** | **330** | **1140** | **60** | **30** | **0** | **0** | **210,0** | **165** | **0** | **120** | **75** | **0** | **0** | **30** | **150** | **0** | **75** | **180** | **0** | **0** | **30,0** | **130** | **0** | **30** | **195** | **0** | **0** | **30,0** | **90** | **0** | **45** | **225** | **0** | **0** | **30,0** | **105** | **0** | **30** | **195** | **0** | **0** | **30** | **90** | **0** | **30** | **180** | **0** | **0** | **30** | **0** | **0** | **0** | **90** | **60** | **30** | **30** |
| Liczba godzin zajęć dydaktycznych w semestrze | | | | | | | | | | | | | | 360 | | | | | | | 405 | | | | | | | 355 | | | | | | | 360 | | | | | | | 330 | | | | | | | 300 | | | | | | | 180 | | | | | | |
| Liczba egzaminów w semestrze | | | | | | | | | | | | | | 3 | | | | | | | 3 | | | | | | | 1 | | | | | | | 3 | | | | | | | 3 | | | | | | | 3 | | | | | | | 0 | | | | | | |
| Liczba punktów ECTS w semestrze | | | | | | | | | | | | | | 30 | | | | | | | 30 | | | | | | | 30 | | | | | | | 30 | | | | | | | 30 | | | | | | | 30 | | | | | | | 30 | | | | | | |

| Pozostałe zajęcia obowiązkowe | | semestr | godziny |
|---|---|---|---|
| 1 | Szkolenie BHP | 1 | 4 |
| 2 | Szkolenie biblioteczne | 1 | 2 |

**Oznaczenia:**

*W - wykład, ZP- zajęcia praktyczne, Ć - ćwiczenia, L - laboratorium, P -projekt, S - seminarium*

*1) zajęcia z języka obcego realizowane w formie lektoratu*

*2) zajęcia sportowe lub inne ustalone przez SWFiS*

| Semestr | Dozwolony deficyt punktów ECTS po poszczególnych semestrach |
|---|---|
| 1 | 12 |
| 2 | 12 |
| 3 | 12 |
| 4 | 12 |
| 5 | 12 |
| 6 | 12 |