**POLITECHNIKA POZNAŃSKA**
**WYDZIAŁ INŻYNIERII LĄDOWEJ I TRANSPORTU**

**Kierunek** **TRANSPORT**
**Ścieżka dypl.**
1. Logistyka transportu (LT)
2. Transport drogowy (TD)
3. Transport niskoemisyjny (TN)
4. Transpot szynowy (TSz)
5. Transport żywności (TŻ)

*Obowiązuje od roku akademickiego 2021/2022*

## Plan studiów stacjonarnych I stopnia

| L.p. | Nazwa przedmiotu | Realizacja | ECTS | L. egzaminów | L. zaliczeń | Ogólne liczby godzin: Razem | w tym: wykł. W | ćw. C | lab. L | proj. P | semestr I: ECTS | E | Z | W | C | L | P | semestr II: ECTS | E | Z | W | C | L | P | semestr III: ECTS | E | Z | W | C | L | P | semestr IV: ECTS | E | Z | W | C | L | P | semestr V: ECTS | E | Z | W | C | L | P | semestr VI: ECTS | E | Z | W | C | L | P | semestr VII: ECTS | E | Z | W | C | L | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Przedmioty kształcenia ogólnego** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **O.1** | **Język obcy (* - 3sem.)** | **SJO** | **8** | **1** | **2** | **120** | | **120** | | | | | | | | | | | | | | | | | **4** | | **1** | | **60** | | | **4** | **1** | **1** | | **60** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **O.2** | **Przedmioty humanistyczno-społeczne** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1 | Bezpieczeństwo pracy (lub 2.2) | **IO** | **1** | | **1** | **15** | **15** | | | | | | | | | | | **1** | | **1** | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.2 | Sztuka autoprezentacji | **IT/WIZ** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.3 | Zarządzanie czasem (lub 2.4) | **IO** | **1** | | **1** | **15** | | **15** | | | | | | | | | | **1** | | **1** | | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | Zarządzanie Small Business'em | **IT/WIZ** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.5 | Etyka w biznesie i dyplomacji (lub 2.6) | **BR** | **1** | | **1** | **15** | **15** | | | | | | | | | | | **1** | | **1** | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.6 | Socjologia | **IO** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.7 | Podstawy ekonomii | **IT** | **2** | | **1** | **30** | **30** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **O.3** | **Wychowanie fizyczne** | **CS** | | | | **60** | | **60** | | | | | | | | | | | | | | **30** | | | | | | | **30** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **O.4** | **Technologia informacyjna** | **IR** | **2** | | **1** | **30** | **30** | | | | **2** | | **1** | **30** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **O.5** | **BHP** [1] | **IO** | | | **1** | **4** | **4** | | | | | | **1** | **4** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **O.6** | **Prawa i obowiązki** | | | | | | | | | | | | | **4** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **O.7** | **Usługi biblioteczno-informacyjne** | **BPP** | | | **1** | **2** | | | | **2** | | | **1** | | | | **2** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | **Razem w grupie Og** | | **15** | **1** | **9** | **291** | **94** | **195** | | **2** | **2** | | **3** | **38** | | | **2** | **3** | | **3** | **30** | **45** | | | **4** | | **1** | | **90** | | | **4** | **1** | **1** | | **60** | | | | | | | | | | | | | | | | | | | | | | | | | **2** | | **1** | **30** | | | |
| | **Liczba godz. w semestrze** | | | | | | | | | | | | | **40** | | | | | | | **75** | | | | | | | **90** | | | | | | | **60** | | | | | | | | | | | | | | | | | | | | | | | | | | | **30** | | | |

[1] Jednorazowe zajęcia na początku semestru
[*] Przedmiot którego zaliczenie warunkuje możliwość kontynuowania studiów

**POLITECHNIKA POZNAŃSKA** **Kierunek** **TRANSPORT**
**WYDZIAŁ INŻYNIERII LĄDOWEJ I TRANSPORTU**

Obowiązuje od roku akademickiego 2021/2022

## Plan studiów stacjonarnych I stopnia

| L.p. | Nazwa przedmiotu | Realizacja | ECTS | L. egzaminów | L. zaliczeń | Ogólne liczby godzin: Razem | w tym: wykł. W | ćw. C | lab. L | proj. P | semestr I: ECTS | E | Z | W | C | L | P | semestr II: ECTS | E | Z | W | C | L | P | semestr III: ECTS | E | Z | W | C | L | P | semestr IV: ECTS | E | Z | W | C | L | P | semestr V: ECTS | E | Z | W | C | L | P | semestr VI: ECTS | E | Z | W | C | L | P | semestr VII: ECTS | E | Z | W | C | L | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Przedmioty podstawowe** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **P.1** | **Matematyka i badania operacyjne** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | Matematyka | **IM** | **7** | **1** | **1** | **90** | **60** | **30** | | | **7** | **1** | **1** | **60** | **30** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | Wybrane zagadnienia z matematyki | **IM** | **3** | **1** | **1** | **45** | **30** | **15** | | | | | | | | | | **3** | **1** | **1** | **30** | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3 | Badania operacyjne | **IS** | **3** | **1** | **1** | **45** | **30** | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **3** | **1** | **1** | **30** | **15** | | | | | | | | | | | | | | | | | | | | |
| **P.2** | **Informatyka** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1 | Wprowadzenie do informat. | **IS** | **2** | | **1** | **15** | **15** | | | | **2** | | **1** | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.2 | Techniki informatyczne | **WILiT** | **3** | | **2** | **30** | **15** | | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **3** | | **2** | **15** | | **15** | | | | | | | | | | | | | | | | | | | | |
| **P.3** | **Materiałoznawstwo** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.1 | Metaloznawstwo z obr.c. | **IR** | **3** | **1** | **1** | **45** | **30** | | **15** | | | | | | | | | **3** | **1** | **1** | **30** | | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.2 | Tribologia | **IR** | **2** | | **2** | **30** | **15** | | **15** | | | | | | | | | **2** | | **2** | **15** | | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.3 | Materiały eksploatacyjne | **IR** | **3** | **1** | **1** | **30** | **15** | | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **P.4** | **Fizyka** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.1 | Fizyka | **IF** | **4** | **1** | **1** | **45** | **30** | **15** | | | **4** | **1** | **1** | **30** | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.2 | Zagadnienia fizyki współczesnej | **IS** | **1** | | **1** | **15** | **15** | | | | | | | | | | | **1** | | **1** | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.3 | Fizyczne aspekty materiałoznawstwa | **IKM** | **2** | | **2** | **30** | **30** | | | | **2** | | **2** | **30** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.4 | Fizykochemia gazów (lub 4.5) | **IR** | **3** | | **2** | **45** | **30** | **15** | | | | | | | | | | **3** | | **2** | **30** | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.5 | Kinetyka cieczy i gazów | **IR** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **P.5** | **Mechanika techniczna** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.1 | Mechanika techniczna | **IMs** | **2** | **1** | **1** | **30** | **15** | **15** | | | | | | | | | | **2** | **1** | **1** | **15** | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.2 | Wytrzymałość materiałów | **IMs** | **3** | **1** | **1** | **45** | **15** | **30** | | | | | | | | | | | | | | | | | **3** | **1** | **1** | **15** | **30** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.3 | Elementy termodynamiki i mechaniki płynów | **IEC** | **3** | | **3** | **45** | **15** | **15** | **15** | | | | | | | | | | | | | | | | **3** | | **3** | **15** | **15** | **15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | **Razem w grupie Podstawowe** | | **44** | **8** | **21** | **585** | **360** | **150** | **75** | | **15** | **2** | **5** | **135** | **45** | | | **14** | **3** | **8** | **135** | **45** | **30** | | **6** | **1** | **4** | **30** | **45** | **15** | | | | | | | | | **6** | **1** | **3** | **45** | **15** | **15** | | **3** | **1** | **1** | **15** | | **15** | | | | | | | | | | | | | |
| | **Liczba godz. w semestrze** | | | | | | | | | | | | | **180** | | | | | | | **210** | | | | | | | **90** | | | | | | | | | | | | | | **75** | | | | | | | **30** | | | | | | | | | | | | | |

**POLITECHNIKA POZNAŃSKA**
**WYDZIAŁ INŻYNIERII LĄDOWEJ I TRANSPORTU**

Obowiązuje od roku akademickiego 2021/2022

**Kierunek** **TRANSPORT**

Plan studiów stacjonarnych I stopnia

| L.p. | Nazwa przedmiotu | Realizacja | ECTS | L. egzaminów | L. zaliczeń | Ogólne liczby godzin: Razem | w tym wykł. W | ćw. C | lab. L | proj. P | semestr I ECTS | E | Z | W | C | L | P | semestr II ECTS | E | Z | W | C | L | P | semestr III ECTS | E | Z | W | C | L | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Przedmioty kierunkowe** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.1** | **Logistyka** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | Logistyka (lub 1.2) | IT | 3 | 1 | 1 | 45 | 30 | 15 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | Zarządzanie w transporcie | IT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3 | Komputerowe wspomaganie procesów logistycznych | IT | 3 | | 2 | 30 | 15 | | 15 | | | | | | | | | | | | | | | | | | | | | | |
| **K.2** | **Systemy transportowe** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1 | Systemy transportowe | IS | 5 | 1 | 1 | 45 | 30 | | | 15 | | | | | | | | | | | | | | | 5 | 1 | 1 | 30 | | | 15 |
| 2.2 | Systemy transportu bliskiego i magazynowania | IS | 2 | | 2 | 30 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | |
| 2.3 | Transport mediów | IEC | 2 | | 2 | 30 | 15 | 15 | | | | | | | | | | 2 | | 2 | 15 | 15 | | | | | | | | | |
| **K.3** | **Organizacja i zarządzanie w transporcie** | IT | 2 | | 2 | 30 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | |
| **K.4** | **Ekonomika transportu** | IT | 2 | | 2 | 30 | 15 | 15 | | | 2 | | 2 | 15 | 15 | | | | | | | | | | | | | | | | |
| **K.5** | **Podstawy inżynierii ruchu** | IR | 2 | | 2 | 30 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | |
| **K.6** | **Środki transportu** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.1 | Silniki spalinowe (lub 6.2) | IS | 4 | 1 | 1 | 45 | 30 | | 15 | | | | | | | | | | | | | | | | | | | | | | |
| 6.2 | Systemy napędowe | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.3 | Pojazdy drogowe | IR | 3 | | 2 | 30 | 15 | | 15 | | | | | | | | | | | | | | | | | | | | | | |
| 6.4 | Hybrydowe napędy środków transportu | IS | 4 | 1 | 2 | 45 | 15 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | |
| 6.5 | Układy hydrauliczne i pneumatyczne środków transportu | IKM | 4 | 1 | 1 | 45 | 30 | | 15 | | | | | | | | | | | | | | | | | | | | | | |
| 6.6 | Urządzenia chłodnicze, klimatyzacyjne i grzewcze w transporcie | IR | 2 | | 2 | 30 | 15 | | 15 | | | | | | | | | | | | | | | | 2 | | 2 | 15 | | | 15 |
| 6.7 | Środki transportu bliskiego i magazynowania | IKM | 2 | | 1 | 30 | 30 | | | | 2 | | 1 | 30 | | | | | | | | | | | | | | | | | |
| 6.8 | Środki transportu dalekiego | IS/IR | 2 | | 1 | 30 | 30 | | | | | | | | | | | 2 | | 1 | 30 | | | | | | | | | | |
| **K.7** | **Podstawy eksploatacji technicznej** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.1 | Eksploatacja technicznych środków transportu | IR | 2 | | 2 | 30 | 15 | 15 | | | | | | | | | | | | | | | | | 2 | | 2 | 15 | 15 | | |
| 7.2 | Podstawy diagnostyki technicznej | IS | 3 | 1 | 1 | 45 | 30 | 15 | | | | | | | | | | | | | | | | | | | | | | | |
| 7.3 | Technologia obsługiwania środków transportu | IR | 1 | | 1 | 15 | 15 | | | | | | | | | | | | | | | | | | 1 | | 1 | 15 | | | |
| 7.4 | Niezawodność obiektów technicznych | IS | 3 | 1 | 1 | 45 | 15 | 30 | | | | | | | | | | | | | | | | | 3 | 1 | 1 | 15 | 30 | | |
| **K.8** | **Infrastruktura transportu** | IS | 2 | | 1 | 30 | 30 | | | | | | | | | | | 2 | | 1 | 30 | | | | | | | | | | |
| **K.9** | **Metrologia** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.1 | Metrologia warsztatowa | IMt | 3 | | 2 | 30 | 15 | | 15 | | | | | | | | | | | | | | | | 3 | | 2 | 15 | | | 15 |
| 9.2 | Pomiary wielkości mechanicznych | IR | 2 | | 1 | 15 | | | 15 | | | | | | | | | | | | | | | | 2 | | 1 | | | | 15 |
| **K.10** | **Grafika inżynierska i konstrukcja maszyn** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.1 | Rysunek techniczny | IT | 5 | | 2 | 30 | 15 | | 15 | | 5 | | 2 | 15 | | 15 | | | | | | | | | | | | | | | |
| 10.2 | Grafika komputerowa | IT | 3 | | 1 | 30 | | | 30 | | | | | | | | | 3 | | 1 | | | 30 | | | | | | | | |
| 10.3 | Techniki wytwarzania | IMt | 1 | | 1 | 15 | 15 | | | | | | | | | | | 1 | | 1 | 15 | | | | | | | | | | |
| 10.4 | Podstawy konstrukcji maszyn (lub 10.5) | IKM | 7 | 1 | 2 | 90 | 30 | 30 | | 30 | | | | | | | | | | | | | | | | | | | | | |
| 10.5 | Podstawy projektowania elementów i zespołów maszyn | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.11** | **Elektrotechnika** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11.1 | Podstawy układów elektrycznych w środkach transportu | IR | 2 | | 1 | 15 | 15 | | | | | | | | | | | | | | | | | | 2 | | 1 | 15 | | | |
| 11.2 | Elektrotechnika w środkach transportu (lub 11.3) | IR | 4 | | 2 | 45 | 15 | | 30 | | | | | | | | | | | | | | | | | | | | | | |
| 11.3 | Podzespoły elektryczne w pojazdach | IR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.12** | **Elektronika w środkach transportu** | IS | 2 | | 2 | 30 | 15 | | 15 | | | | | | | | | | | | | | | | | | | | | | |
| **K.13** | **Automatyka** | IS | 4 | | 2 | 45 | 30 | 15 | | | | | | | | | | | | | | | | | | | | | | | |
| **K.14** | **Ładunkoznawstwo** | IR | 2 | | 1 | 30 | 30 | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.15** | **Ochrona środowiska i ekologia** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15.1 | Ochrona środowiska w transporcie | IS | 4 | | 2 | 45 | 30 | | 15 | | | | | | | | | | | | | | | | | | | | | | |
| 15.2 | Recykling środków transportu | IT | 1 | | 1 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.16** | **Marketing w transporcie** | IT | 1 | | 1 | 15 | 15 | | | | 1 | | 1 | 15 | | | | | | | | | | | | | | | | | |
| **K.17** | **Prawo transportowe** | IT | 1 | | 1 | 15 | 15 | | | | 1 | | 1 | 15 | | | | | | | | | | | | | | | | | |
| **K.18** | **Bezpieczeństwo w transporcie** | IT | 2 | | 2 | 30 | 15 | 15 | | | 2 | | 2 | 15 | 15 | | | | | | | | | | | | | | | | |
| **K.19** | **Zagadnienia osób z niepełnosprawnością w transporcie** | IT | 3 | 1 | 1 | 45 | 30 | | | 15 | | | | | | | | 3 | 1 | 1 | 30 | | | 15 | | | | | | | |
| **K.20** | **Przygotowanie do prowadzenia badań naukowych** | IR | 1 | | 1 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.21** | **Praktyka przeddyplomowa** [2)] | IO | 4 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.22** | **Proseminarium** | IR | 1 | | 1 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.23** | **Praca przejściowa** | IT/IR/IS | 5 | | 1 | 4 | | | | 4 | | | | | | | | | | | | | | | | | | | | | |
| **K.24** | **Przygotowanie pracy dypl. z elementami badań naukowych** | IT/IR/IS | 13 | | 1 | 5 | | | | 5 | | | | | | | | | | | | | | | | | | | | | |
| **K.25** | **Seminarium** | IT/IR/IS | 2 | | 1 | 15 | | | | 15 | | | | | | | | | | | | | | | | | | | | | |
| | **Razem w grupie Kierunkowe** | | 126 | 9 | 61 | 1284 | 750 | 225 | 225 | 84 | 13 | | 9 | 105 | 30 | 15 | | 13 | 1 | 7 | 120 | 15 | 30 | 15 | 20 | 2 | 11 | 120 | 45 | 45 | 15 |
| | **Liczba godzin tygodniowo** | | | | | | | | | | | | | 150 | | | | | | | 180 | | | | | | | 225 | | | |
| | **Liczba godz. w semestrze** | | | | | | | | | | | | | 2250 | | | | | | | 2700 | | | | | | | 3375 | | | |

| L.p. | Nazwa przedmiotu | semestr IV ECTS | E | Z | W | C | L | P | semestr V ECTS | E | Z | W | C | L | P | semestr VI ECTS | E | Z | W | C | L | P | semestr VII ECTS | E | Z | W | C | L | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Przedmioty kierunkowe** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.1** | **Logistyka** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | Logistyka (lub 1.2) | 3 | 1 | 1 | 30 | 15 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.2 | Zarządzanie w transporcie | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.3 | Komputerowe wspomaganie procesów logistycznych | | | | | | | | 3 | | 2 | 15 | | 15 | | | | | | | | | | | | | | | |
| **K.2** | **Systemy transportowe** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.1 | Systemy transportowe | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.2 | Systemy transportu bliskiego i magazynowania | | | | | | | | 2 | | 2 | 15 | 15 | | | | | | | | | | | | | | | | |
| 2.3 | Transport mediów | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.3** | **Organizacja i zarządzanie w transporcie** | 2 | | 2 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | |
| **K.4** | **Ekonomika transportu** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.5** | **Podstawy inżynierii ruchu** | 2 | | 2 | 15 | 15 | | | | | | | | | | | | | | | | | | | | | | | |
| **K.6** | **Środki transportu** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.1 | Silniki spalinowe (lub 6.2) | | | | | | | | 4 | 1 | 1 | 30 | | 15 | | | | | | | | | | | | | | | |
| 6.2 | Systemy napędowe | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.3 | Pojazdy drogowe | | | | | | | | 3 | | 2 | 15 | | 15 | | | | | | | | | | | | | | | |
| 6.4 | Hybrydowe napędy środków transportu | | | | | | | | | | | | | | | 4 | 1 | 2 | 15 | 15 | 15 | | | | | | | | |
| 6.5 | Układy hydrauliczne i pneumatyczne środków transportu | | | | | | | | | | | | | | | 4 | 1 | 1 | 30 | | 15 | | | | | | | | |
| 6.6 | Urządzenia chłodnicze, klimatyzacyjne i grzewcze w transporcie | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.7 | Środki transportu bliskiego i magazynowania | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.8 | Środki transportu dalekiego | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.7** | **Podstawy eksploatacji technicznej** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.1 | Eksploatacja technicznych środków transportu | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.2 | Podstawy diagnostyki technicznej | | | | | | | | 3 | 1 | 1 | 30 | 15 | | | | | | | | | | | | | | | | |
| 7.3 | Technologia obsługiwania środków transportu | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.4 | Niezawodność obiektów technicznych | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.8** | **Infrastruktura transportu** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.9** | **Metrologia** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.1 | Metrologia warsztatowa | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.2 | Pomiary wielkości mechanicznych | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.10** | **Grafika inżynierska i konstrukcja maszyn** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.1 | Rysunek techniczny | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.2 | Grafika komputerowa | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.3 | Techniki wytwarzania | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.4 | Podstawy konstrukcji maszyn (lub 10.5) | 7 | 1 | 2 | 30 | 30 | | 30 | | | | | | | | | | | | | | | | | | | | | |
| 10.5 | Podstawy projektowania elementów i zespołów maszyn | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.11** | **Elektrotechnika** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11.1 | Podstawy układów elektrycznych w środkach transportu | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11.2 | Elektrotechnika w środkach transportu (lub 11.3) | 4 | | 2 | 15 | | 30 | | | | | | | | | | | | | | | | | | | | | | |
| 11.3 | Podzespoły elektryczne w pojazdach | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.12** | **Elektronika w środkach transportu** | | | | | | | | | | | | | | | 2 | | 2 | 15 | | 15 | | | | | | | | |
| **K.13** | **Automatyka** | 4 | | 2 | 30 | 15 | | | | | | | | | | | | | | | | | | | | | | | |
| **K.14** | **Ładunkoznawstwo** | | | | | | | | 2 | | 1 | 30 | | | | | | | | | | | | | | | | | |
| **K.15** | **Ochrona środowiska i ekologia** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15.1 | Ochrona środowiska w transporcie | 4 | | 2 | 30 | | 15 | | | | | | | | | | | | | | | | | | | | | | |
| 15.2 | Recykling środków transportu | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | 15 | | | |
| **K.16** | **Marketing w transporcie** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.17** | **Prawo transportowe** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.18** | **Bezpieczeństwo w transporcie** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.19** | **Zagadnienia osób z niepełnosprawnością w transporcie** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **K.20** | **Przygotowanie do prowadzenia badań naukowych** | | | | | | | | 1 | | 1 | 15 | | | | | | | | | | | | | | | | | |
| **K.21** | **Praktyka przeddyplomowa** [2)] | | | | | | | | | | | | | | | 4 | | 1 | | | | | | | | | | | |
| **K.22** | **Proseminarium** | | | | | | | | | | | | | | | 1 | | 1 | 15 | | | | | | | | | | |
| **K.23** | **Praca przejściowa** | | | | | | | | | | | | | | | 5 | | 1 | | | | 4 | | | | | | | |
| **K.24** | **Przygotowanie pracy dypl. z elementami badań naukowych** | | | | | | | | | | | | | | | | | | | | | | 13 | | 1 | | | | 5 |
| **K.25** | **Seminarium** | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | | | | 15 |
| | **Razem w grupie Kierunkowe** | 26 | 2 | 13 | 165 | 90 | 45 | 30 | 18 | 2 | 10 | 150 | 30 | 45 | | 20 | 2 | 8 | 75 | 15 | 45 | 4 | 16 | | 3 | 15 | | | 20 |
| | **Liczba godzin tygodniowo** | | | | 330 | | | | | | | 225 | | | | | | | 139 | | | | | | | 35 | | | |
| | **Liczba godz. w semestrze** | | | | 4950 | | | | | | | 3375 | | | | | | | 2085 | | | | | | | 525 | | | |

[2)] Po 3 roku