**UNIWERSYTET MORSKI W GDYNI**
**Wydział Mechaniczny**

# PLAN STUDIÓW

**KIERUNEK**
**EKSPLOATACJA i DIAGNOSTYKA SYSTEMÓW TECHNICZNYCH**
**w zakresie: Zarządzanie Eksploatacją Elektrowni Wiatrowych (ZEEW)**

**STUDIA STACJONARNE PIERWSZEGO STOPNIA**
**PROFIL OGÓLNOAKADEMICKI**

Ustalono Uchwałą nr 122/XVII Senatu UMG dnia 28.04.2022 r.
Obowiązuje od semestru zimowego roku akademickiego 2022/2023

Rozkład zajęć programowych w latach

| Lp | Nazwa przedmiotu | Razem | Godziny pracy w tym | | | | | | I Rok | | | | | | | | II Rok | | | | | | | | | | III Rok | | | | | | | | | | IV Rok | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Sem. I | | | | Sem. II | | | | Sem. III | | | | | Sem. IV | | | | | Sem. V | | | | | Sem. VI | | | | | | Sem. VII | | | | | | |
| | | | W | C | L | P | S | ECTS | W | C | L | ECTS | W | C | L | ECTS | W | C | L | P | ECTS | W | C | L | ECTS | W | C | L | P | ECTS | W | C | L | P | S | ECTS | W | C | L | P | S | ECTS |
| 1. | Język angielski I, II | 60 | | 60 | | | | 4 | | 30 | | 2 | | 30 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Wychowanie fizyczne I, II, III, IV | 60 | | | 60 | | | 0 | | | 15 | 0 | | | 15 | 0 | | | 15 | | 0 | | | 15 | 0 | | | | | | | | | | | | | | | | | |
| 3. | Ceremoniał morski I, II | 15 | 10 | | | | 5 | 1 | 10 | | | 1 | | | | | | | | | | | | | | | | | | | | | | 5 | 0 | | | | | | | |
| 4. | Ochrona własności intelektualnej | 15 | 15 | | | | | 1 | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Historia techniki | 15 | 15 | | | | | 1 | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | Transport w gospodarce globalnej | 15 | 15 | | | | | 1 | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | Techniki kreatywnego myślenia | 15 | | 15 | | | | 1 | | 15 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | Bezpieczeństwo i higiena pracy / Podstawy ergonomii * | 15 | 15 | | | | | 1 | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | Nauki o organizacji / Podstawy zarządzania * | 30 | 30 | | | | | 2 | 15 | | | 1 | | | | | 15 | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 10. | Etyka w biznesie / Ekonomia * | 15 | 15 | | | | | 1 | | | | | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11. | Podstawy zarządzania projektami | 45 | 15 | | | 30 | | 3 | | | | | | | | | | | | | | | | | | 15 | | | 30 | 3 | | | | | | | | | | | | |
| 12. | Odnawialne źródła energii | 30 | 15 | | 15 | | | 2 | 15 | | 15 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. | Rynek OZE w Polsce / Prawne aspekty morskiej energetyki wiatrowej * | 15 | 15 | | | | | 1 | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. | Ochrona środowiska / Ekologiczne aspekty eksploatacji morskich farm wiatrowych * | 15 | 15 | | | | | 1 | | | | | | | | | 15 | | | | 1 | | | | | | | | | | | | | | | | | | | | | |
| 15. | Fizyka morza / Hydrologia mórz i oceanów * | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 2 |
| 16. | Metodologia badań naukowych | 15 | | | | | 15 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 1 | | | | | | |
| 17. | Matematyka I, II | 150 | 60 | 90 | | | | 11 | 30 | 45 | | 6 | 30 | 45 | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18. | Fizyka I, II | 135 | 60 | 45 | 30 | | | 9 | 30 | 30 | | 4 | 30 | 15 | 30 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19. | Podstawy informatyki | 15 | 15 | | | | | 1 | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20. | Inżynieria materiałowa I, II | 60 | 30 | | 30 | | | 4 | 15 | | | 1 | 15 | | 30 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. | Rysunek techniczny | 45 | 15 | | 30 | | | 3 | | | | | 15 | | 30 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. | Komputerowe wspomaganie projektowania | 30 | | | 30 | | | 2 | | | | | | | | | | | | | | | | 30 | 2 | | | | | | | | | | | | | | | | | |
| 23. | Podstawy konstrukcji maszyn | 60 | 30 | 15 | 15 | | | 4 | | | | | | | | | | | | | | 30 | 15 | 15 | 4 | | | | | | | | | | | | | | | | | |
| 24. | Wytrzymałość materiałów | 60 | 30 | 15 | 15 | | | 4 | | | | | | | | | 30 | 15 | 15 | | 4 | | | | | | | | | | | | | | | | | | | | | |
| 25. | Termodynamika techniczna | 90 | 30 | 30 | 30 | | | 6 | | | | | | | | | 30 | 30 | 30 | | 6 | | | | | | | | | | | | | | | | | | | | | |
| 26. | Mechanika płynów | 30 | 15 | 15 | | | | 2 | | | | | | | | | 15 | 15 | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| 27. | Technologie informacyjne | 45 | 15 | | 30 | | | 3 | | | | | 15 | | 30 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28. | Podstawy programowania I | 60 | 30 | | 30 | | | 4 | | | | | | | | | 30 | | 30 | | 4 | | | | | | | | | | | | | | | | | | | | | |
| 29. | Podstawy baz danych | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | | 15 | | 15 | | 2 | | | | | | | | | | | | |
| 30. | Podstawy elektrotechniki | 40 | 15 | 15 | 10 | | | 3 | 15 | 15 | 10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31. | Podstawy elektroniki | 30 | 15 | | 15 | | | 2 | | | | | 15 | | 15 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32. | Podstawy automatyki | 75 | 30 | 15 | 30 | | | 5 | | | | | | | | | | | | | | 30 | 15 | 30 | 5 | | | | | | | | | | | | | | | | | |
| 33. | Maszynoznawstwo | 45 | 30 | | 15 | | | 3 | 30 | | 15 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34. | Miernictwo | 45 | 15 | | 30 | | | 3 | | | | | 15 | | 30 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35. | Technologia maszyn I, II | 120 | 60 | | 60 | | | 8 | | | | | | | | | 30 | | | | 2 | 30 | | 60 | 6 | | | | | | | | | | | | | | | | | |
| 36. | Podstawy diagnostyki maszyn | 15 | 15 | | | | | 1 | | | | | | | | | | | | | | 15 | | | 1 | | | | | | | | | | | | | | | | | |
| 37. | Metody nieniszczące w diagnostyce | 45 | 15 | | 30 | | | 3 | | | | | | | | | | | | | | | | | | 15 | | 30 | | 3 | | | | | | | | | | | | |
| 38. | Eksploatacja maszyn | 15 | 15 | | | | | 1 | | | | | | | | | | | | | | | | | | 15 | | | | 1 | | | | | | | | | | | | |
| 39. | Zarządzanie utrzymaniem ruchu | 45 | 30 | | | 15 | | 3 | | | | | | | | | | | | | | | | | | | | | | | 30 | | | 15 | | 3 | | | | | | |
| 40. | Podstawy tribologii | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | | 15 | | 15 | | 2 | | | | | | | | | | | | |
| 41. | Techniki przeciwkorozyjne | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | 15 | | 15 | 2 | | | | | | | | | | | | | | | | | |
| 42. | Niezawodność systemów technicznych | 30 | 15 | | | 15 | | 2 | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 15 | | 2 | | | | | | |
| 43. | Zarządzanie bezpieczeństwem obiektów energetycznych | 30 | 15 | | | 15 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 15 | | 2 |
| 44. | Seminarium dyplomowe I, II | 30 | | | | | 30 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 1 | | | | 15 | 1 |
| 45. | Język angielski III, IV, V, VI, VII | 150 | | 150 | | | | 10 | | | | | | | | | | 30 | | | 2 | | 30 | | 2 | | 30 | | | 2 | | 30 | | | 2 | | 30 | | | | 2 |
| 46. | Język angielski biznesowy | 15 | | 15 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 1 | | | | | | |
| 47. | Język angielski techniczny | 15 | | 15 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | 1 |
| 48. | Kompetencje interpersonalne | 30 | | 30 | | | | 2 | | | | | | | | | | 30 | | | 2 | | | | | | | | | | | | | | | | | | | | |
| 49. | Zarządzanie zasobami ludzkimi | 15 | 15 | | | | | 1 | | | | | | | | | 15 | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 50. | Podstawy zarządzania jakością | 30 | 15 | | | 15 | | 2 | | | | | | | | | | | | | | | | | | 15 | | | 15 | 2 | | | | | | | | | | | |
| 51. | Narzędzia wspomagające zarządzanie projektami | 15 | | | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 1 | | | | | |
| 52. | Finansowanie projektów | 45 | 15 | | | 30 | | 3 | | | | | | | | | | | | | | | | | | 15 | | | 30 | 3 | | | | | | | | | | | |
| 53. | Ekonomika przedsiębiorstw / Rachunkowość w zarządzaniu przedsiębiorstwem * | 30 | 15 | 15 | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | 15 | 15 | | | 2 | | | | | | |
| 54. | Relacje na rynku przemysłowym | 15 | 15 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | 1 | | | | | | |
| 55. | Negocjacje w biznesie | 15 | | 15 | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | 1 |
| 56. | Nowoczesne metody organizacji pracy | 30 | 15 | | | 15 | | 2 | | | | | | | | | | | | | | | | | | 15 | | | 15 | 2 | | | | | | | | | | | |
| 57. | Mechanika stosowana | 45 | 30 | 15 | | | | 3 | | | | | 30 | 15 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58. | Nowoczesne materiały kompozytowe | 15 | 15 | | | | | 1 | | | | | | | | | 15 | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 59. | Logistyka i spedycja portowo-morska | 30 | 15 | | | 15 | | 2 | | | | | | | | | 15 | | | 15 | 2 | | | | | | | | | | | | | | | | | | | | |
| 60. | Zarządzanie łańcuchami dostaw | 60 | 30 | 30 | | | | 4 | | | | | | | | | | | | | | 30 | 30 | | 4 | | | | | | | | | | | | | | | | |
| 61. | Systemy transportowe w projektach MEW | 30 | 15 | | | 15 | | 2 | | | | | | | | | | | | | | | | | | 15 | | | 15 | 2 | | | | | | | | | | | |
| 62. | Przewóz ładunków nienormatywnych | 30 | 15 | | | 15 | | 2 | | | | | | | | | | | | | | | | | | 15 | | | 15 | 2 | | | | | | | | | | | |
| 63. | Prawo morskie / Prawo energetyczne * | 15 | 15 | | | | | 1 | | | | | | | | | | | | | | | | | | 15 | | | | 1 | | | | | | | | | | | |
| 64. | Cła, taryfy i podatki w transporcie morskim | 15 | 15 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | 1 | | | | | | |
| 65. | Ubezpieczenia morskie | 15 | 15 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | | 1 |
| 66. | Wytwarzanie i przesył energii elektrycznej | 15 | 15 | | | | | 1 | | | | | | | | | 15 | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 67. | Podstawy budowy elektrowni wiatrowych | 15 | 15 | | | | | 1 | | | | | | | | | 15 | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| 68. | Podstawy eksploatacji elektrowni wiatrowych | 15 | 15 | | | | | 1 | | | | | | | | | | | | | | 15 | | | 1 | | | | | | | | | | | | | | | | |
| 69. | Maszyny i urządzenia elektryczne | 15 | 15 | | | | | 1 | | | | | | | | | | | | | | 15 | | | 1 | | | | | | | | | | | | | | | | |
| 70. | Dokumentacja technologiczna | 15 | | | | 15 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 71. | Urządzenia przeładunkowe | 30 | 30 | | | | | 2 | | | | | | | | | | | | | | 30 | | | 2 | | | | | | | | | | | | | | | | |
| 72. | Komputerowe wspomaganie decyzji | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | | 15 | | 15 | | 2 | | | | | | | | | | | |
| 73. | Podstawy optymalizacji | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | | 15 | | 15 | | 2 | | | | | | | | | | | |
| 74. | Rachunek kosztów w działalności remontowej | 30 | 15 | | | 15 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 15 | | 2 |
| 75. | Predykcyjne utrzymanie ruchu | 15 | 15 | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | | 1 |
| 76. | Analiza niezawodnościowa systemów technicznych | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 2 |
| 77. | Praktyka przemysłowa | | | | | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| 78. | Praca dyplomowa | | | | | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| Razem obciążenie | | **2740** | 1255 | 600 | 625 | 210 | 50 | 210 | 250 | 135 | 55 | 30 | 180 | 105 | 180 | 30 | 240 | 120 | 90 | 15 | 30 | 210 | 90 | 165 | 30 | 195 | 30 | 90 | 135 | 30 | 90 | 60 | 15 | 30 | 35 | 30 | 90 | 60 | 30 | 30 | 15 | 30 |
| Liczba godzin w semestrze/tygodniu | | | | | | | | | 440 | | 29 | | 465 | | 31 | | 465 | | | 31 | | 465 | | 31 | | 450 | | 30 | | 230 | | | 15 | | | 225 | | | 15 | | |
| Liczba egzaminów | | | | | | | | | | 3 | | | | 3 | | | | 3 | | | | | 2 | | | | 3 | | | | 2 | | | | | | 2 | | | | |

**UNIWERSYTET MORSKI W GDYNI**
**Wydział Mechaniczny**

# PLAN STUDIÓW

**KIERUNEK:**
**EKSPLOATACJA i DIAGNOSTYKA SYSTEMOW TECHNICZNYCH**
**w zakresie: Diagnostyka Urządzeń Technicznych (DUT)**

**STUDIA STACJONARNE PIERWSZEGO STOPNIA**
**PROFIL OGÓLNOAKADEMICKI**

Ustalono Uchwałą nr 122/XVII Senatu UMG dnia 28.04.2022 r.
Obowiązuje od semestru zimowego roku akademickiego 2022/2023

Rozkład zajęć programowych w latach

| Lp | Nazwa przedmiotu | Razem | w tym | | | | | Godziny pracy ECTS | I Rok | | | | | | | | II Rok | | | | | | | | III Rok | | | | | | | | IV Rok | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Sem. I | | | | Sem. II | | | | Sem. III | | | | Sem. IV | | | | Sem. V | | | | | Sem. VI | | | | | | Sem. VII | | | | | |
| | | | W | C | L | P | S | | W | C | L | ECTS | W | C | L | ECTS | W | C | L | ECTS | W | C | L | ECTS | W | C | L | P | ECTS | W | C | L | P | S | ECTS | W | C | L | P | S | ECTS |
| 1. | Język angielski I, II | 60 | | 60 | | | | 4 | | 30 | | 2 | | 30 | | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Wychowanie fizyczne I, II, III, IV | 60 | | | 60 | | | 0 | | | 15 | 0 | | | 15 | 0 | | | 15 | 0 | | | 15 | 0 | | | | | | | | | | | | | | |
| 3. | Ceremoniał morski I, II | 15 | 10 | | | | 5 | 1 | 10 | | | 1 | | | | | | | | | | | | | | | | | | | | | 5 | 0 | | | | | |
| 4. | Ochrona własności intelektualnej | 15 | 15 | | | | | 1 | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Historia techniki | 15 | 15 | | | | | 1 | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | Transport w gospodarce globalnej | 15 | 15 | | | | | 1 | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | Techniki kreatywnego myślenia | 15 | | 15 | | | | 1 | | 15 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. | Bezpieczeństwo i higiena pracy / Podstawy ergonomii * | 15 | 15 | | | | | 1 | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9. | Nauki o organizacji / Podstawy zarządzania * | 30 | 30 | | | | | 2 | 15 | | | 1 | | | | | 15 | | | 1 | | | | | | | | | | | | | | | | | | |
| 10. | Etyka w biznesie / Ekonomia * | 15 | 15 | | | | | 1 | | | | | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 11. | Podstawy zarządzania projektami | 45 | 15 | | | 30 | | 3 | | | | | | | | | | | | | | | | | 15 | | | 30 | 3 | | | | | | | | | | |
| 12. | Odnawialne źródła energii | 30 | 15 | | 15 | | | 2 | 15 | | 15 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. | Rynek OZE w Polsce / Prawne aspekty morskiej energetyki wiatrowej * | 15 | 15 | | | | | 1 | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14. | Ochrona środowiska / Ekologiczne aspekty eksploatacji morskich farm wiatrowych * | 15 | 15 | | | | | 1 | | | | | | | | | 15 | | | 1 | | | | | | | | | | | | | | | | | | |
| 15. | Fizyka morza / Hydrologia mórz i oceanów * | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 2 |
| 16. | Metodologia badań naukowych | 15 | | | | | 15 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 1 | | | | | |
| 17. | Matematyka I, II | 150 | 60 | 90 | | | | 11 | 30 | 45 | | 6 | 30 | 45 | | 5 | | | | | | | | | | | | | | | | | | | | | | |
| 18. | Fizyka I, II | 135 | 60 | 45 | 30 | | | 9 | 30 | 30 | | 4 | 30 | 15 | 30 | 5 | | | | | | | | | | | | | | | | | | | | | | |
| 19. | Podstawy informatyki | 15 | 15 | | | | | 1 | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20. | Inżynieria materiałowa I, II | 60 | 30 | | 30 | | | 4 | 15 | | | 1 | 15 | | 30 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 21. | Rysunek techniczny | 45 | 15 | | 30 | | | 3 | | | | | 15 | | 30 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 22. | Komputerowe wspomaganie projektowania | 30 | | | 30 | | | 2 | | | | | | | | | | | | | | | 30 | 2 | | | | | | | | | | | | | | |
| 23. | Podstawy konstrukcji maszyn | 60 | 30 | 15 | 15 | | | 4 | | | | | | | | | | | | | 30 | 15 | 15 | 4 | | | | | | | | | | | | | | |
| 24. | Wytrzymałość materiałów | 60 | 30 | 15 | 15 | | | 4 | | | | | | | | | 30 | 15 | 15 | 4 | | | | | | | | | | | | | | | | | | |
| 25. | Termodynamika techniczna | 90 | 30 | 30 | 30 | | | 6 | | | | | | | | | 30 | 30 | 30 | 6 | | | | | | | | | | | | | | | | | | |
| 26. | Mechanika płynów | 30 | 15 | 15 | | | | 2 | | | | | | | | | 15 | 15 | | 2 | | | | | | | | | | | | | | | | | | |
| 27. | Technologie informacyjne | 45 | 15 | | 30 | | | 3 | | | | | 15 | | 30 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 28. | Podstawy programowania I | 60 | 30 | | 30 | | | 4 | | | | | | | | | 30 | | 30 | 4 | | | | | | | | | | | | | | | | | | |
| 29. | Podstawy baz danych | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | 15 | | 15 | | 2 | | | | | | | | | | |
| 30. | Podstawy elektrotechniki | 40 | 15 | 15 | 10 | | | 3 | 15 | 15 | 10 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31. | Podstawy elektroniki | 30 | 15 | | 15 | | | 2 | | | | | 15 | | 15 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 32. | Podstawy automatyki | 75 | 30 | 15 | 30 | | | 5 | | | | | | | | | | | | | 30 | 15 | 30 | 5 | | | | | | | | | | | | | | |
| 33. | Maszynoznawstwo | 45 | 30 | | 15 | | | 3 | 30 | | 15 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34. | Miernictwo | 45 | 15 | | 30 | | | 3 | | | | | 15 | | 30 | 3 | | | | | | | | | | | | | | | | | | | | | | |
| 35. | Technologia maszyn I, II | 120 | 60 | | 60 | | | 8 | | | | | | | | | 30 | | | 2 | 30 | | 60 | 6 | | | | | | | | | | | | | | |
| 36. | Podstawy diagnostyki maszyn | 15 | 15 | | | | | 1 | | | | | | | | | | | | | 15 | | | 1 | | | | | | | | | | | | | | |
| 37. | Metody nieniszczące w diagnostyce | 45 | 15 | | 30 | | | 3 | | | | | | | | | | | | | | | | | 15 | | 30 | | 3 | | | | | | | | | |
| 38. | Eksploatacja maszyn | 15 | 15 | | | | | 1 | | | | | | | | | | | | | | | | | 15 | | | | 1 | | | | | | | | | |
| 39. | Zarządzanie utrzymaniem ruchu | 45 | 30 | | | 15 | | 3 | | | | | | | | | | | | | | | | | | | 30 | | | 15 | | 3 | | | | | |
| 40. | Podstawy tribologii | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | 15 | | 15 | | 2 | | | | | | | | | |
| 41. | Techniki przeciwkorozyjne | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | 15 | | 15 | 2 | | | | | | | | | | | | | | |
| 42. | Niezawodność systemów technicznych | 30 | 15 | | | 15 | | 2 | | | | | | | | | | | | | | | | | | | 15 | | | 15 | | 2 | | | | | |
| 43. | Zarządzanie bezpieczeństwem obiektów energetycznych | 30 | 15 | | | 15 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 15 | | 2 |
| 44. | Seminarium dyplomowe I, II | 30 | | | | | 30 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 15 | 1 | | | | 15 | 1 |
| 45. | Język angielski III, IV, V, VI, VII | 150 | | 150 | | | | 10 | | | | | | | | | | 30 | | 2 | | 30 | | 2 | | 30 | | 2 | | | | | | | | | | 2 |
| 46. | Podstawy funkcjonowania przedsiębiorstw / Modele biznesowe przedsiębiorstw * | 15 | 15 | | | | | 1 | | | | | | | | | | | | | | | | | 15 | | | | 1 | | | | | | | | | |
| 47. | Matematyka III | 75 | 30 | 45 | | | | 5 | | | | | | | | | 30 | 45 | | 5 | | | | | | | | | | | | | | | | | | |
| 48. | Mechanika techniczna I, II | 90 | 60 | 30 | | | | 6 | | | | | 30 | 15 | | 3 | 30 | 15 | | 3 | | | | | | | | | | | | | | | | | | |
| 49. | Drgania mechaniczne | 30 | 15 | 15 | | | | 2 | | | | | | | | | | | | | 15 | 15 | | 2 | | | | | | | | | | | | | | |
| 50. | Mechatronika | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | 15 | | 15 | | 2 | | | | | | | | | |
| 51. | Silniki spalinowe | 30 | 30 | | | | | 2 | | | | | | | | | | | | | 30 | | | 2 | | | | | | | | | | | | | | |
| 52. | Siłownie okrętowe | 30 | 30 | | | | | 2 | | | | | | | | | | | | | | | | | 30 | | | | 2 | | | | | | | | | |
| 53. | Kotły | 30 | 30 | | | | | 2 | | | | | | | | | | | | | | | | | 30 | | | | 2 | | | | | | | | | |
| 54. | Turbiny | 45 | 30 | | 15 | | | 3 | | | | | | | | | | | | | | | | | 30 | | 15 | | 3 | | | | | | | | | |
| 55. | Siłownie wiatrowe | 15 | 15 | | | | | 1 | | | | | | | | | | | | | | | | | 15 | | | | 1 | | | | | | | | | |
| 56. | Diagnostyka silników spalinowych | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | 15 | | 15 | | 2 | | | | | | | | | |
| 57. | Diagnostyka płynów eksploatacyjnych | 60 | 30 | | 30 | | | 4 | | | | | | | | | | | | | | | | | 30 | | 30 | | 4 | | | | | | | | | |
| 58. | Diagnostyka maszyn i urządzeń | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 2 | | | | | | |
| 59. | Zaawansowane systemy diagnostyczne | 15 | | | 15 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | 1 |
| 60. | Podstawy programowania II | 30 | 0 | | 30 | | | 2 | | | | | | | | | | | | | | | 30 | 2 | | | | | | | | | | | | | | |
| 61. | Numeryczne modelowanie i symulacja | 60 | 30 | | 30 | | | 4 | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | 4 | | | | | | |
| 62. | Technologie transmisji danych | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 2 |
| 63. | Przetwarzanie sygnałów | 45 | 30 | | 15 | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 15 | | | 3 |
| 64. | Podstawy uczenia maszynowego i analiza danych | 30 | 15 | | 15 | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 15 | | | 2 |
| 65. | Praktyka warsztatowa/przemysłowa | | | | | | | 17 | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | 15 | | | | | |
| 66. | Praca dyplomowa | | | | | | | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 |
| Razem obciążenie | | **2710** | 1255 | 555 | 775 | 75 | 50 | 210 | 250 | 135 | 55 | 30 | 180 | 105 | 180 | 30 | 225 | 150 | 90 | 30 | 165 | 75 | 195 | 30 | 255 | 30 | 135 | 30 | 30 | 90 | 30 | 45 | 30 | 35 | 30 | 90 | 30 | 75 | 15 | 15 | 30 |
| Liczba godzin w semestrze/tygodniu | | | | | | | | | 440 | | 29 | | 465 | | 31 | | 465 | | 31 | | 435 | | 29 | | 450 | | 30 | | | 230 | | | 15 | | 225 | | | 15 | | |
| Liczba egzaminów | | | | | | | | | 3 | | | | 3 | | | | 3 | | | | 2 | | | | 3 | | | | | 3 | | | | | 3 | | | | | |

***- Przedmioty do wyboru**

| W - wykład | C - ćwiczenia | L - laboratorium | P - projekt | S - seminarium |
|---|---|---|---|---|

**- egzamin**

| **Praktyki:** | | |
|---|---|---|
| **warsztatowa** | 1 - 2 tygodnie | II rok |
| **przemysłowa** | 4 - 6 tygodni | III rok |