Obow.od r.akad. 2019/2020
Uchwała RW nr ...../11/17/18
z dnia 19.09.2018. r.

**Szczegółowy plan studiów stacjonarnych I stopnia (s1)**
**Kierunek: MECHANIKA i BUDOWA MASZYN (dualne)**
**spec: technologiczno-materiałowa**

przedmioty wybieralne
przedmioty podstaowe
Godziny dydaktyczne realizowane przez pracowników z przemysłu

| Lp. | Nazwa przedmiotu | Identyfikator | Semestr | Forma zaliczenia | Godziny ogółem | ECTS | W1 | Ć1 | L1 | P1 | S1 | ECTS | W2 | Ć2 | L2 | P2 | S2 | ECTS | W3 | Ć3 | L3 | P3 | S3 | ECTS | W4 | Ć4 | L4 | P4 | S4 | ECTS | W5 | Ć5 | L5 | P5 | S5 | ECTS | W6 | Ć6 | L6 | P6 | S6 | ECTS | W7 | Ć7 | L7 | P7 | S7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Przedmiot z obszaru nauk humanistycznych lub społeczny - wybieralny | | I, II | Z | 60 | 2 | 2 | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Matematyka | | I-III | E | 135 | 3 | 1 | 2 | | | | 4 | 2 | 2 | | | | 2 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Fizyka | | I, II | Z | 90 | 4 | 2 | 1 | | | | 4 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Przedmiot wybieralny - Technologie informacyjne | | I | Z | 30 | 2 | 1 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Mechanika techniczna, wytrzymałość materiałów i mechanika pękania (Mechanika klasyczna, konstrukcji i materiałów) | | I-IV | E | 240 | 3 | 2 | 2 | | | | 3 | 1 | 2 | 1 | | | 3 | 2 | 2 | | | | 3 | 1 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | |
| 6 | Nauka o materiałach | | I, II | Z, E | 120 | 3 | 2 | | 2 | | | 3 | 2 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Maszynoznawstwo | | I | Z | 30 | 1 | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Chemia | | II | Z | 45 | | | | | | | 2 | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Język angielski | | III-VI | Z, Z, Z, E | 120 | | | | | | | | | | | | | 2 | | 2 | | | | 2 | | 2 | | | | 2 | | 2 | | | | 2 | | 2 | | | | | | | | | |
| 10 | Wychowanie fizyczne | | III, V | Z | 60 | | | | | | | | | | | | | 0 | | 2 | | | | | | | | | | 0 | | 2 | | | | | | | | | | | | | | | |
| 11 | Projektowanie i konstruowanie maszyn | | III-V | Z, E, E | 210 | | | | | | | | | | | | | 3 | 1 | 1 | | 2 | | 4 | 2 | | 2 | 2 | | 3 | 2 | | | 2 | | | | | | | | | | | | | |
| 12 | Badania struktury i własności materiałów | | III, IV | Z, E | 90 | | | | | | | | | | | | | 4 | 1 | | 2 | | | 4 | 1 | | 2 | | | | | | | | | | | | | | | | | | | | |
| 13 | Basic engineering software | | III | Z | 45 | | | | | | | | | | | | | 4 | 1 | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Statystyka matematyczna i planowanie eksperymentu | | IV | Z | 45 | | | | | | | | | | | | | | | | | | | 3 | 1 | | 2 | | | | | | | | | | | | | | | | | | | | |
| 15 | Technologie wytwarzania materiałów inżynierskich | | IV-VI | Z, E, E | 150 | | | | | | | | | | | | | | | | | | | 2 | 1 | | 1 | | | 3 | 1 | | 1 | | | 5 | 2 | | 2 | 2 | | | | | | | |
| 16 | Metody kształtowania własności materiałów (w tym obróbka cieplna, z elementami inżynierii powierzchni) | | V, VI | Z | 75 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | | 2 | | | 2 | 1 | | 1 | | | | | | | | |
| 18 | Termodynamika techniczna i przepływ ciepła | | V | Z | 45 | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 1 | | | | | | | | | | | | | | | |
| 19 | Materiały inżynierskie i ich dobór | | V, VI | Z, E | 120 | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2 | | 2 | | | 3 | 2 | | 1 | 1 | | | | | | | |
| 20 | Zarządzanie przedsiębiorstwem przemysłowym | | VI | Z | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | 2 | | | | | | |
| 21 | Systemy CAx | | VI | Z | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | 1 | | | | | | | |
| 23 | Metrologia wielkości geometrycznych i powierzchni | | VI | Z | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | | 1 | | | | | | | | |
| 24 | Quality engineering | | VII | Z | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | | | 1 | |
| 25 | Projektowanie technologii procesów materiałowych | | VII | E | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | 1 | | | 2 | 1 |
| 26 | Wykład fakultatywny - Zarządzanie czasem i zespołem ludzkim/Organizacja przedsiębiorstwa/Prawo autorskie w technice | | VII | Z | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | | | | 1 |
| 27 | Praktyka zawodowa/Staż przemysłowy | | I-VII | Z | 69 tyg. | 12 | 6 tygodni | | | | | 12 | 15 tygodni | | | | | 12 | 6 tygodni | | | | | 12 | 15 tygodni | | | | | 12 | 6 tygodni | | | | | 12 | 15 tygodni | | | | | 4 | 6 tygodni | | | | |
| 29 | Projekt inżynierski przemysłowy | | VII | Z | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | 3 | |
| 30 | Praca własna studenta | | VII | - | 135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Razem semestralnie | x | x | x | 2100 | 30 | 11 | 5 | 3 | 1 | 0 | 30 | 9 | 6 | 5 | 0 | 0 | 30 | 6 | 8 | 4 | 2 | 0 | 30 | 6 | 3 | 8 | 3 | 0 | 30 | 8 | 5 | 5 | 2 | 0 | 30 | 6 | 2 | 6 | 4 | 2 | 30 | 3 | 0 | 0 | 6 | 2 |
| | Liczba zaliczeń | x | x | 35 | x | 6 | | | | | | 4 | | | | | | 6 | | | | | | 4 | | | | | | 6 | | | | | | 5 | | | | | | 4 | | | | | |
| | Liczba egzaminów | x | x | 15 | x | 2 | | | | | | 3 | | | | | | 2 | | | | | | 3 | | | | | | 2 | | | | | | 3 | | | | | | 1+D | | | | | |
| | Liczba godzin semestralnie | x | x | x | 2100 | 20 | | | | | | 20 | | | | | | 20 | | | | | | 20 | | | | | | 20 | | | | | | 20 | | | | | | 20 | | | | | |
| | Liczba punktów ECTS semestralnie | x | x | x | 210 | 30 | | | | | | 30 | | | | | | 30 | | | | | | 30 | | | | | | 30 | | | | | | 30 | | | | | | 30 | | | | | |