**PWSZ w Elblągu**
**INSTYTUT POLITECHNICZNY**

# PRZEDMIOTY OBIERALNE

**Kierunek: MECHANIKA i BUDOWA MASZYN**
**Specjalność: PRZEMYSŁOWE ZASTOSOWANIA MECHATRONIKI**
**Studia pierwszego stopnia - STACJONARNE**

| L.p. | Nazwa przedmiotu obieralnego | ECTS | Liczba godzin | Rozdział zajęć programowych na semestry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | sem I | | | | | | sem II | | | | | | sem III | | | | | | sem IV | | | | | | sem V | | | | | | sem VI | | | | | | sem VII | | | | | |
| | | | | w | ć | l | p/s | e | ECTS | w | ć | l | p/s | e | ECTS | w | ć | l | p/s | e | ECTS | w | ć | l | p/s | e | ECTS | w | ć | l | p/s | e | ECTS | w | ć | l | p/s | e | ECTS | w | ć | l | p/s | e | ECTS |
| **Blok A.I** *(humanistyczny)* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Wybrane zagadnienia z psychologii | 2 | 30 | 2 | | | | | **2** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Wybrane zagadnienia z socjologii | 2 | 30 | 2 | | | | | **2** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Blok A.II** *(humanistyczny)* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Podstawy filozofii | 1 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | **1** |
| 2 | Elementy wiedzy o sztuce | 1 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | **1** |
| **Blok C** *(kierunkowy)* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Maszyny tłokowe | 3 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | | | **3** | | | | | | | | | | | | |
| 2 | Maszyny wirnikowe | 3 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | 1 | | | **3** | | | | | | | | | | | | |
| **Blok D.I** *(specjalnościowy)* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Mechatronika w pojazdach | 3 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | | **3** | | | | | | |
| 2 | Systemy wizualizacji i monitorowania procesów | 3 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 2 | | | **3** | | | | | | |
| **Blok D.II** *(specjalnościowy)* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Sterowanie jakością produkcji układów mechatronicznych | 3 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | | **3** | | | | | | |
| 2 | Mechatroniczne oprzyrządownie produkcji | 3 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | | **3** | | | | | | |
| 3 | Obróbka i narzędzia precyzyjne | 3 | 45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 | | **3** | | | | | | |
| **Blok D.III** *(specjalnościowy)* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Modelowanie układów mechatronicznych | 2 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | | | **2** | | | | | | |
| 2 | Sterowanie rozmyte | 2 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | | | **2** | | | | | | |
| 3 | Komputerowo wspomagane projektowanie układów automatyki | 2 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | | | **2** | | | | | | |
| **Blok D.IV** *(specjalnościowy)* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Materiały funkcjonalne i specjalne | 3 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | E | **3** |
| 2 | Nanotechnologia | 3 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | E | **3** |

**Obowiązuje od: 01-10-2009 r.**

**Zmiany:**

**Zatwierdzony**
**przez Senat PWSZ w Elblągu**
**w dniu 29-01-2009 roku**

**REKTOR**

**Z każdego bloku wybierany jest tylko jeden przedmiot**