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| **Mechanika i budowa maszyn** |
| studia stacjonarne drugiego stopnia **Zakres anglojęzyczny:** **Modelling and Simulation** **in Mechanics**  |

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| **ROK I** |
| **Semestr 1** |
| Nazwa przedmiotu | Liczba godzin | ECTS | egz. / zal. |
| W | Ć | L | S | P |
| Język obcy - angielski |  | 30 |  |  |  | 2 | zal. |
| Intellectual property in technique and science | 15 |  |  |  |  | 1 | zal. |
| Labor market | 15 | 15 |  |  |  | 2 | zal. |
| **Combustion** | **30** | **30** |  |  |  | **5** | **egz.** |
| **Analytical mechanics** | **30** | **30** |  |  |  | **5** | **egz.** |
| Metrology & quality engineering | 60 |  | 30 |  | 30 | 7 | zal. |
| Polymer Processing | **45** |  | 75 |  |  | **8** | zal. |
| Training on safe ang hygienic working conditions | 4 |  |  |  |  | 0 | zal. |

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| **ROK I** |
| **Semestr 2** |
| Nazwa przedmiotu | Liczba godzin | ECTS | egz. / zal. |
| W | Ć | L | S | P |
| Project introducing to scientific research |  |  |  |  | 45 | **3** | zal. |
| **Technological process design for CNC machines** | 30 |  | 30 |  | 30 | 5 | **egz.** |
| Turbulence for CFD | 30 |  | 30 |  |  | 4 | zal. |
| Advanced fluid mechanics | 30 |  | 30 |  |  | 4 | zal. |
| **Selected problems of machine dynamics modelling** | 30 |  | 30 |  |  | 4 | **egz.** |
| Mechanics of materials & strength analysis of construction elements |  | 30 | 15 | 45 |  | 5 | zal. |
| Kinematics, vibrations & stability of mechanical systems | 30 | 45 |  |  |  | 5 | zal. |