

studia: **II stopnia** NIESTACJONARNE  
kierunek: **MECHANIKA i BUDOWA MASZYN**  
specjalność: **PROCESY, MASZYNY i SYSTEMY PRODUKCYJNE**

|  |          |     |    |    |    |   | W  | C   | L        | P   | S  | BK |    |  |   |     |          |     |   | W  | C                                     | L | P  | S   | BK       |    |   |            |    |    |    |  | W | C | L     | P | S | BK |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|----------|-----|----|----|----|---|--|-----|----------|-----|----|----|----|--|---|-----|----------|-----|---|----|---------------------------------------|---|----|-----|----------|----|---|------------|----|----|----|--|---|---|-------|---|---|----|--|--|--|-------------|--|--|--|--|--|--|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Modelowanie układów wielozłonowych     |          |     |    |    |    |   | Automatyzacja procesów produkcyjnych       |     |          |     |    |    |    | Badania nieniszczące wyrobów                   |   |     |          |     |   |    |                                       |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                      |          |     |    |    |    |   | 2  |     |          |     |    |    |    | 2  |   |     |          |     |   |    | 1                                     |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MMM042001                              |          |     |    |    |    |   | 20   |     |          |     |    |    |    | MMM042217                                      |   |     |          |     |   |    | 10 20                                 |   |    |     |          |    |   | MMM042221  |    |    |    |  |   |   | 10 10 |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Podstawy projektowania maszyn          |          |     |    |    |    |   | Metalurgia i fizyka procesów spawalniczych |     |          |     |    |    |    | Organizacja procesów produkcyjnych             |   |     |          |     |   |    | Elastyczne systemy produkcyjne        |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 1                                    |          |     |    |    |    |   | 2  |     |          |     |    |    |    | 3 1  |   |     |          |     |   |    | 1                                     |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MMM042014                              |          |     |    |    |    |   | 20 10                                      |     |          |     |    |    |    | MMM042218                                      |   |     |          |     |   |    | 10                                    |   |    |     |          |    |   | MMM042222  |    |    |    |  |   |   | 20 10 |   |   |    |  |  |  | MMM042212   |  |  |  |  |  |  | 10    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sterowanie maszyn i urządzeń E         |          |     |    |    |    |   | Zaawansowane technologie wytwarzania E     |     |          |     |    |    |    | Procesy obróbki skrawaniem                     |   |     |          |     |   |    | Konstrukcja i eksploatacja obrabiarek |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 2                                    |          |     |    |    |    |   | 4  |     |          |     |    |    |    | 3 1  |   |     |          |     |   |    | 2 1                                   |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MMM042015                              |          |     |    |    |    |   | 20 20                                      |     |          |     |    |    |    | MMM042219                                      |   |     |          |     |   |    | 20                                    |   |    |     |          |    |   | MMM042223  |    |    |    |  |   |   | 20 10 |   |   |    |  |  |  | MMM042213   |  |  |  |  |  |  | 10 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Matematyka inżynierska                 |          |     |    |    |    |   | Praca przejściowa                          |     |          |     |    |    |    | Specjalne metody łączenia                      |   |     |          |     |   |    | Narzędzia do przeróbki plastycznej    |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                      |          |     |    |    |    |   | 6  |     |          |     |    |    |    | 2 1  |   |     |          |     |   |    | 2                                     |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MMM042016                              |          |     |    |    |    |   | 20   |     |          |     |    |    |    | MMM042220                                      |   |     |          |     |   |    | 30                                    |   |    |     |          |    |   | MMM042224  |    |    |    |  |   |   | 10 10 |   |   |    |  |  |  | MMM042228   |  |  |  |  |  |  | 10    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mechanika analityczna E                |          |     |    |    |    |   | Modelowanie ustrojów maszyn E              |     |          |     |    |    |    | Technologie przyrostowe                        |   |     |          |     |   |    | Przebieg i organizacja montażu        |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 2                                    |          |     |    |    |    |   | 3 2  |     |          |     |    |    |    | 3  |   |     |          |     |   |    | 1 1                                   |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MMM042017                              |          |     |    |    |    |   | 20 10                                      |     |          |     |    |    |    | MMM042020                                      |   |     |          |     |   |    | 10 20                                 |   |    |     |          |    |   | MMM042225  |    |    |    |  |   |   | 20    |   |   |    |  |  |  | MMM042203   |  |  |  |  |  |  | 10 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Projektowanie materiałów inżynierskich |          |     |    |    |    |   | Maszyny technologiczne                     |     |          |     |    |    |    | Wytwarzanie kompozytów metodami odlewniczymi   |   |     |          |     |   |    | Zajęcia sportowe                      |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 1                                    |          |     |    |    |    |   | 3  |     |          |     |    |    |    | 2 1  |   |     |          |     |   |    | 1                                     |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MMM042018                              |          |     |    |    |    |   | 10 10                                      |     |          |     |    |    |    | MMM042021                                      |   |     |          |     |   |    | 20                                    |   |    |     |          |    |   | MMM042226  |    |    |    |  |   |   | 10 10 |   |   |    |  |  |  | WFW020000BK |  |  |  |  |  |  | 8     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Inżynieria powierzchni                 |          |     |    |    |    |   | Zarządzanie produkcją                      |     |          |     |    |    |    | Zaawansowane metody kształtowania plastycznego |   |     |          |     |   |    | Seminarium dyplomowe                  |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 1                                    |          |     |    |    |    |   | 2  |     |          |     |    |    |    | 3 1  |   |     |          |     |   |    | 2                                     |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MMM042019                              |          |     |    |    |    |   | 10 10                                      |     |          |     |    |    |    | MMM042022                                      |   |     |          |     |   |    | 10                                    |   |    |     |          |    |   | MMM042227  |    |    |    |  |   |   | 20 10 |   |   |    |  |  |  | MMM042229   |  |  |  |  |  |  | 20    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wytrzymałość materiałów                |          |     |    |    |    |   | Zintegrowane systemy wytwarzania           |     |          |     |    |    |    | PRACA DYPLOMOWA I                              |   |     |          |     |   |    | PRACA DYPLOMOWA II                    |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                      |          |     |    |    |    |   | 2  |     |          |     |    |    |    | 3  |   |     |          |     |   |    | 17                                    |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MMM042009                              |          |     |    |    |    |   | 20   |     |          |     |    |    |    | MMM042013                                      |   |     |          |     |   |    | 20                                    |   |    |     |          |    |   | MMM042251D |    |    |    |  |   |   | 10    |   |   |    |  |  |  | MMM042252D  |  |  |  |  |  |  | 10    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Język obcy poziom B2+ lub C1+          |          |     |    |    |    |   | Język obcy poziom A1 lub A2 lub B1+        |     |          |     |    |    |    | Badania elementów i zespołów maszyn            |   |     |          |     |   |    | Przedmiot HUMANISTYCZNY               |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                      |          |     |    |    |    |   | 2  |     |          |     |    |    |    | 3  |   |     |          |     |   |    | 2                                     |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| JZM042050BK                            |          |     |    |    |    |   | 10   |     |          |     |    |    |    | JZM042051BK                                    |   |     |          |     |   |    | 30                                    |   |    |     |          |    |   | MMM042023  |    |    |    |  |   |   | 20    |   |   |    |  |  |  | HMH100035BK |  |  |  |  |  |  | 10    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| sem. 1                                 |          |     |    |    |    |   | sem. 2                                     |     |          |     |    |    |    | sem. 3   |   |     |          |     |   |    | sem. 4                                |   |    |     |          |    |   |            |    |    |    |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                                     | ECTS     | 20  | 3  | 3  | 4  | 0 | 0  | 30  | ECTS     | 18  | 2  | 2  | 8  | 0  | 0 | 30  | ECTS     | 18  | 0 | 7  | 2                                     | 0 | 3  | 30  | ECTS     | 7  | 0 | 1          | 1  | 3  | 18 |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 210                                    | l. godz. | 120 | 20 | 30 | 40 | 0 | 0  | 200 | l. godz. | 100 | 30 | 20 | 50 | 0  | 0 | 200 | l. godz. | 110 | 0 | 60 | 20                                    | 0 | 10 | 108 | l. godz. | 40 | 0 | 10         | 10 | 30 | 18 |  |   |   |       |   |   |    |  |  |  |             |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |

|       |     |    |     |     |    |    |      |     |
|-------|-----|----|-----|-----|----|----|------|-----|
| razem | W   | C  | L   | P   | S  | BK | ECTS | 120 |
|       | 370 | 50 | 120 | 120 | 30 | 28 |      |     |
|       | 718 |    |     |     |    |    |      |     |

BK - blok kursów wybieralnych