

studia: **I stopnia** NIESTACJONARNE kierunek: **ZARZĄDZANIE i INŻYNIERIA PRODUKCJI** obszar dyplomowania: **INŻYNIERIA ROZWOJU PRODUKTU**

| W   | C        | L   | P  | S | BK | W  | C | L   | P        | S   | BK | W                                   | C  | L | P | S   | BK       | W                                      | C  | L  | P  | S | BK | W                                     | C        | L   | P  | S  | BK | W   | C | L   | P        | S   | BK | W  | C  | L  | P | S   | BK       | W                                | C  | L | P  | S  | BK | W   | C        | L  | P | S  | BK | W  | C  | L | P | S | BK |
|---|----------|-----|----|---|----|--|---|-----|----------|-----|----|-------------------------------------|----|---|---|-----|----------|--|----|----|----|---|----|---------------------------------------|----------|-----|----|----|----|---|---|-----|----------|-----|----|--|----|----|---|-----|----------|----------------------------------|----|---|----|----|----|-----|----------|----|---|----|----|----|----|---|---|---|----|
|   |          |     |    |   |    |  |   |     |          |     |    |                                     |    |   |   |     |          |  |    |    |    |   |    | Ergonomia i BHP                       |          |     |    |    |    |   |   |     |          |     |    |  |    |    |   |     |          |                                  |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
|   |          |     |    |   |    |  |   |     |          |     |    |                                     |    |   |   |     |          |  |    |    |    |   |    | ZPM032102                             |          |     |    |    |    | 20  |   |     |          |     |    |  |    |    |   |     |          |                                  |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| Grafika inżynierska - geometria wykreslna |          |     |    |   |    | Grafika inżynierska - zapis konstrukcji    |   |     |          |     |    |                                     |    |   |   |     |          |  |    |    |    |   |    | Postawy marketingu E                  |          |     |    |    |    | Prawo gospodarcze                                     |   |     |          |     |    | Logistyka produkcji  |    |    |   |     |          | Metoda elementów skończonych     |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| ZPM032042                                 |          |     |    |   |    | ZPM032044                                  |   |     |          |     |    |                                     |    |   |   |     |          | ZPM032056                              |    |    |    |   |    | PRZ001158                             |          |     |    |    |    | ZMZ000158   |   |     |          |     |    | ZPM032106  |    |    |   |     |          |                                  |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 2 2                                       |          |     |    |   |    | 2 2  |   |     |          |     |    |                                     |    |   |   |     |          | 3                                      |    |    |    |   |    | 2 2                                   |          |     |    |    |    | 2 2   |   |     |          |     |    | 1 1  |    |    |   |     |          |                                  |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 20  |          |     |    |   |    | 10 20                                      |   |     |          |     |    |                                     |    |   |   |     |          | 20                                     |    |    |    |   |    | 10                                    |          |     |    |    |    | 10  |   |     |          |     |    | 10   |    |    |   |     |          | 20                               |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| Chemia                                    |          |     |    |   |    | Materialoznawstwo I                        |   |     |          |     |    | Ochrona własności intelektualnej*   |    |   |   |     |          | Grafika inżynierska 3D                 |    |    |    |   |    | Podstawy logistyki E                  |          |     |    |    |    | Projektowanie procesów technologicznych               |   |     |          |     |    | Komputerowe zarządzanie eksploatacją i utrzymaniem ruchu maszyn i urządzeń |    |    |   |     |          | Modelowanie i symulacja procesów |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| ZPM032002                                 |          |     |    |   |    | ZPM032045                                  |   |     |          |     |    | HMH100035BK                         |    |   |   |     |          | ZPM032050                              |    |    |    |   |    | ZPM032057                             |          |     |    |    |    | ZPM032027   |   |     |          |     |    | ZPM032113  |    |    |   |     |          | ZPM032101                        |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 2   |          |     |    |   |    | 3 2  |   |     |          |     |    | 2                                   |    |   |   |     |          | 1 2                                    |    |    |    |   |    | 3 1                                   |          |     |    |    |    | 2 2   |   |     |          |     |    | 3 2  |    |    |   |     |          | 2 2                              |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 20  |          |     |    |   |    | 20 10                                      |   |     |          |     |    | 10                                  |    |   |   |     |          | 10 20                                  |    |    |    |   |    | 20 10                                 |          |     |    |    |    | 10  |   |     |          |     |    | 20   |    |    |   |     |          | 20 10                            |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| Technologie informacyjne                  |          |     |    |   |    | Mechanika E                                |   |     |          |     |    | Podstawy projektowania mechanizmów  |    |   |   |     |          | Podstawy projektowania maszyn E        |    |    |    |   |    | Maszyny i urządzenia technologiczne E |          |     |    |    |    | Przetwórstwo tworzyw sztucznych                       |   |     |          |     |    | Proseminarium dyplomowe  |    |    |   |     |          | Szczupły rozwój wyrobów          |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| ZPM032003                                 |          |     |    |   |    | ZPM032046                                  |   |     |          |     |    | ZPM032013                           |    |   |   |     |          | ZPM032051                              |    |    |    |   |    | ZPM032058                             |          |     |    |    |    | ZPM032055   |   |     |          |     |    | ZPM032114  |    |    |   |     |          | ZPM032108                        |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 2 2                                       |          |     |    |   |    | 3 2  |   |     |          |     |    | 3 2                                 |    |   |   |     |          | 4 2                                    |    |    |    |   |    | 3 2                                   |          |     |    |    |    | 1 1   |   |     |          |     |    | 1  |    |    |   |     |          | 1 1                              |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 20  |          |     |    |   |    | 20 20                                      |   |     |          |     |    | 20 10                               |    |   |   |     |          | 20                                     |    |    |    |   |    | 20 10                                 |          |     |    |    |    | 20  |   |     |          |     |    | 10   |    |    |   |     |          | 20                               |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| Podstawy zarządzania I                    |          |     |    |   |    | Ekologia w produkcji przemysłowej          |   |     |          |     |    | Statystyka inżynierska              |    |   |   |     |          | Podstawy programowania                 |    |    |    |   |    | Podstawy automatyzacji E              |          |     |    |    |    | Systemy informatyczne w zarządzaniu przedsiębiorstwem |   |     |          |     |    | Projektowanie technologiczne w systemach CAPP                              |    |    |   |     |          | Sterowanie numeryczne            |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| ZPM032043                                 |          |     |    |   |    | ZPM032009                                  |   |     |          |     |    | ZPM032048                           |    |   |   |     |          | ZPM032052                              |    |    |    |   |    | ZPM032059                             |          |     |    |    |    | ZPM032033   |   |     |          |     |    | ZPM032115  |    |    |   |     |          | ZPM032109                        |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 2   |          |     |    |   |    | 2  |   |     |          |     |    | 2 1                                 |    |   |   |     |          | 2 2                                    |    |    |    |   |    | 3 1                                   |          |     |    |    |    | 1 1   |   |     |          |     |    | 2 2  |    |    |   |     |          | 2 1                              |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 10  |          |     |    |   |    | 20   |   |     |          |     |    | 10 10                               |    |   |   |     |          | 10 20                                  |    |    |    |   |    | 20 10                                 |          |     |    |    |    | 10  |   |     |          |     |    | 10   |    |    |   |     |          | 10 10                            |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| Wprowadzenie do wytwarzania               |          |     |    |   |    | Informatyka w zastosowaniach inżynierskich |   |     |          |     |    | Materialoznawstwo II E              |    |   |   |     |          | Procesy i techniki wytwarzania II      |    |    |    |   |    | Projektowanie baz danych              |          |     |    |    |    | Technologie rozwoju produktu E                        |   |     |          |     |    | Praca przejściowa  |    |    |   |     |          | Zarządzanie przedsięwzięciem     |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| ZPM032005                                 |          |     |    |   |    | ZPM032010                                  |   |     |          |     |    | ZPM032015                           |    |   |   |     |          | ZPM032021                              |    |    |    |   |    | ZPM032060                             |          |     |    |    |    | ZPM032028   |   |     |          |     |    | ZPM032116  |    |    |   |     |          | ZPM032110                        |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 2   |          |     |    |   |    | 2  |   |     |          |     |    | 3 2                                 |    |   |   |     |          | 3 2                                    |    |    |    |   |    | 2 2                                   |          |     |    |    |    | 2 2   |   |     |          |     |    | 6  |    |    |   |     |          | 1 1                              |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 20  |          |     |    |   |    | 20   |   |     |          |     |    | 20 10                               |    |   |   |     |          | 20 20                                  |    |    |    |   |    | 10 20                                 |          |     |    |    |    | 20 10   |   |     |          |     |    | 30   |    |    |   |     |          | 20 10                            |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| Algebra z geometrią analityczną E         |          |     |    |   |    | Podstawy zarządzania II                    |   |     |          |     |    | Metrologia wielkości geometrycznych |    |   |   |     |          | Zarządzanie produkcją i usługami I     |    |    |    |   |    | Zarządzanie jakością                  |          |     |    |    |    | PRZEDMIOT HUMANISTYCZNY*                              |   |     |          |     |    | Ekonometria  |    |    |   |     |          | Zajęcia sportowe                 |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| MAT001467                                 |          |     |    |   |    | ZPM032012                                  |   |     |          |     |    | ZPM032011                           |    |   |   |     |          | ZPM032053                              |    |    |    |   |    | ZPM032061                             |          |     |    |    |    | ZPM032041BK   |   |     |          |     |    | ZPM032030  |    |    |   |     |          | WFW020000BK                      |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 2 2                                       |          |     |    |   |    | 2  |   |     |          |     |    | 2 2                                 |    |   |   |     |          | 3 2                                    |    |    |    |   |    | 2 2                                   |          |     |    |    |    | 3   |   |     |          |     |    | 2 1  |    |    |   |     |          | 1                                |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 20 10                                     |          |     |    |   |    | 10   |   |     |          |     |    | 20 20                               |    |   |   |     |          | 20 10                                  |    |    |    |   |    | 20                                    |          |     |    |    |    | 20  |   |     |          |     |    | 20   |    |    |   |     |          | 8                                |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| Analiza matematyczna E                    |          |     |    |   |    | Fizyka E                                   |   |     |          |     |    | Procesy i techniki wytwarzania I    |    |   |   |     |          | Podstawy elektrotechniki i elektroniki |    |    |    |   |    | Zarządzanie produkcją i usługami II E |          |     |    |    |    | PRAKTYKA  |   |     |          |     |    | Technologia montażu E  |    |    |   |     |          | Seminarium dyplomowe             |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| MAT001468                                 |          |     |    |   |    | FZP001068                                  |   |     |          |     |    | ZPM032049                           |    |   |   |     |          | ZPD032001                              |    |    |    |   |    | ZPM032062                             |          |     |    |    |    | ZPM032000Q  |   |     |          |     |    | ZPM032054  |    |    |   |     |          | ZPM032112                        |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 5 3                                       |          |     |    |   |    | 3 2 1                                      |   |     |          |     |    | 3 2                                 |    |   |   |     |          | 2 1                                    |    |    |    |   |    | 3 1                                   |          |     |    |    |    | 6   |   |     |          |     |    | 3 1  |    |    |   |     |          | 1                                |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 30 20                                     |          |     |    |   |    | 20 10 10                                   |   |     |          |     |    | 20 20                               |    |   |   |     |          | 10 10                                  |    |    |    |   |    | 10 10                                 |          |     |    |    |    |   |   |     |          |     |    | 20 10  |    |    |   |     |          | 10                               |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| Mikroekonomia E                           |          |     |    |   |    | Makroekonomia                              |   |     |          |     |    | Wytrzymałość materiałów E           |    |   |   |     |          | Rachunkowość i finanse                 |    |    |    |   |    | Rachunek kosztów dla inżynierów       |          |     |    |    |    | Język obcy poziom B2 + C1                             |   |     |          |     |    | Język obcy poziom B2 + C1  |    |    |   |     |          | PRACA DYPLOMOWA                  |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| EKZ0001170                                |          |     |    |   |    | EKZ000163                                  |   |     |          |     |    | ZPM032018                           |    |   |   |     |          | FBZ001190                              |    |    |    |   |    | ZPM032036                             |          |     |    |    |    | JZL100400   |   |     |          |     |    | JZL100400  |    |    |   |     |          | ZPM032150                        |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 4   |          |     |    |   |    | 4  |   |     |          |     |    | 3 1 2                               |    |   |   |     |          | 2 2                                    |    |    |    |   |    | 1 1                                   |          |     |    |    |    | 2   |   |     |          |     |    | 3  |    |    |   |     |          | 15                               |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 20  |          |     |    |   |    | 20   |   |     |          |     |    | 20 10 10                            |    |   |   |     |          | 20 10                                  |    |    |    |   |    | 20 10                                 |          |     |    |    |    | 40  |   |     |          |     |    | 40   |    |    |   |     |          | 20                               |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| sem. 1                                    |          |     |    |   |    | sem. 2                                     |   |     |          |     |    | sem. 3                              |    |   |   |     |          | sem. 4                                 |    |    |    |   |    | sem. 5                                |          |     |    |    |    | sem. 6  |   |     |          |     |    | sem. 7   |    |    |   |     |          | sem. 8                           |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |
| 30  | ECTS     | 21  | 7  | 0 | 2  | 0  | 0 | 30  | ECTS     | 19  | 4  | 3                                   | 4  | 0 | 0 | 30  | ECTS     | 18                                     | 1  | 8  | 3  | 0 | 0  | 30                                    | ECTS     | 17  | 2  | 3  | 8  | 0   | 0 | 30  | ECTS     | 14  | 2  | 3  | 3  | 2  | 6 | 30  | ECTS     | 12                               | 3  | 0 | 14 | 1  | 0  | 30  | ECTS     | 7  | 1 | 1  | 4  | 2  | 15 |   |   |   |    |
| 210                                       | L. godz. | 150 | 50 | 0 | 10 | 0  | 0 | 210 | L. godz. | 120 | 30 | 20                                  | 40 | 0 | 0 | 210 | L. godz. | 120                                    | 10 | 60 | 20 | 0 | 0  | 220                                   | L. godz. | 110 | 10 | 30 | 70 | 0   | 0 | 220 | L. godz. | 140 | 40 | 20   | 30 | 10 | 0 | 210 | L. godz. | 80                               | 40 | 0 | 80 | 10 | 0  | 178 | L. godz. | 80 | 8 | 10 | 40 | 20 | 20 |   |   |   |    |
| razem                                     |          |     |    |   |    | W  |   |     |          |     |    | C                                   |    |   |   |     |          | L                                      |    |    |    |   |    | P                                     |          |     |    |    |    | S   |   |     |          |     |    | BK   |    |    |   |     |          | ECTS                             |    |   |    |    |    | 240 |          |    |   |    |    |    |    |   |   |   |    |
|   |          |     |    |   |    | 910  |   |     |          |     |    | 198                                 |    |   |   |     |          | 160                                    |    |    |    |   |    | 330                                   |          |     |    |    |    | 50  |   |     |          |     |    | 20   |    |    |   |     |          | 1668                             |    |   |    |    |    |     |          |    |   |    |    |    |    |   |   |   |    |

BK - blok kursów wybieralnych

\* kursy z bloku humanistycznego