

Specjalność: Inżynier procesu

dotyczy II i III semestru

| Lp.       | Nazwa przedmiotu | kod   | Punkty ECTS  | Godziny zajęć |     |     |     |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|-----------|------------------|---|--|---------------|-----|-----|-----|----|----|----|----|----|-----|----|----|--------|---|---|-----|---|---|--------|----|---|-----|---|---|---------|---|----|---|---|--|--|--|--|--|--|--|--|--|
|           |                  |   |  | w tym         |     |     |     |    |    |    |    |    |     |    |    | I sem  |   |   |     |   |   | II sem |    |   |     |   |   | III sem |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   |  |               |     |     |     |    |    |    |    |    |     |    |    | 15 tyg |   |   |     |   |   | 15 tyg |    |   |     |   |   | 15 tyg  |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   |  | Razem         | W   | Ć   | L   | P  | Ps | T  | S  | W  | Ć   | L  | P  | Ps     | T | S | W   | Ć | L | P      | Ps | T | S   | W | Ć | L       | P | Ps | T | S |  |  |  |  |  |  |  |  |  |
| 1         | TP               | Organizacja systemów produkcyjnych                          | KNU01432   | 3             | 16  | 8   | 8   |    |    |    |    |    |     |    |    | 1      | E | 1 |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 2         |                  | Prognozowanie i symulacje                                   | KNU01041   | 2             | 16  | 8   | 8   |    |    |    |    |    |     |    |    | 1      | 1 |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 3         |                  | Inteligentne łańcuchy produkcyjne                           | KNU011030  | 2             | 16  | 8   |     |    |    |    |    |    |     |    |    | 1      |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 4         | TP               | Nanotechnologie   | KNU01587   | 2             | 16  | 8   | 8   |    |    |    |    |    |     |    |    | 1      | 1 |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 5         | T                | Systemy kontrolno-pomiarowe                                 | KNU011012  | 2             | 16  | 8   |     | 8  |    |    |    |    |     |    |    | 1      |   |   | 1   |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 6         |                  | Poszukiwanie, ocena i wybór technologii                     | KNU011013  | 1             | 8   | 8   |     |    |    |    |    |    |     |    |    | 1      | E |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 7         | TP               | Nowoczesne metody wspomagania procesów produkcyjnych        | KNU01644   | 3             | 24  | 8   |     |    | 16 |    |    |    |     |    |    |        |   |   |     | 2 |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 8         | T                | Smart Manufacturing   | KNU011014  | 3             | 24  | 16  | 8   |    |    |    |    |    |     |    |    | 2      | 1 |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 9         |                  | Metodologia zarządzania projektami                          | KNU011015  | 2             | 16  |     |     |    |    | 16 |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 10        | T                | Studium przypadku   | KNU01736   | 1             | 8   |     | 8   |    |    |    |    |    |     |    |    |        |   | 1 |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 11        |                  | Gospodarka o obiegu zamkniętym                              | KNU011057  | 2             | 16  | 8   | 8   |    |    |    |    |    |     |    |    | 1      | 1 |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 12        |                  | Teoria ograniczeń - praktyczne zastosowania w przemyśle     | KNU011058  | 2             | 16  |     |     |    | 16 |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 13        | HES              | Prowadzenie spółek i finansowanie działalności gospodarczej | KNU011016  | 3             | 24  | 8   | 16  |    |    |    |    |    |     |    |    | 1      | 2 |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| 14        | HES              | Kompleksowe zarządzanie jakością                            | KNU011017  | 2             | 16  | 8   | 8   |    |    |    |    |    |     |    |    | 1      | 1 |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| II        |                  | Język obcy do wyboru (angielski B2+)                        | KNU02454   |               |     |     |     |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  | Język obcy do wyboru (niemiecki B2+)                        | KNU02455   | 2             | 16  |     | 16  |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     | 2 |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  | Język obcy do wyboru (rosyjski B2+)                         | KNU02456   |               |     |     |     |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  | Studium przypadku   | KNU02736   | 1             | 8   |     | 8   |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     | 1 |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  | TP  | Zintegrowane systemy zarządzania   | KNU02614      | 2   | 16  | 8   | 8  |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   | 1   | 1 |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Utrzymanie ruchu parku maszynowego   | KNU021018     | 3   | 24  | 8   |    |    | 16 |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     | 1 | E |         |   | 2  |   |   |  |  |  |  |  |  |  |  |  |
|           |                  | T   | Energia i media techniczne w procesach wytwórczych                                       | KNU021019     |     |     |     |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Media techniczne w zakładach przemysłowych   | KNU021020     | 3   | 24  | 16  | 8  |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     | 2 | 1 |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  | TP  | Metody modelowania w inżynierii produkcji  | KNU02700      | 3   | 24  | 8   |    |    |    | 16 |    |     |    |    |        |   |   |     |   |   |        |    |   | 1   |   |   |         |   |    |   | 2 |  |  |  |  |  |  |  |  |  |
|           |                  |   | Podstawy SixSigma  | KNU021021     | 1   | 8   |     | 8  |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   | 1 |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Metody statystyczne w SixSigma   | KNU021022     | 1   | 8   |     |    |    |    | 8  |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  | P   | Zarządzanie projektem innowacyjnym   | KNU02702      | 2   | 16  | 8   | 8  |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   | 1   | E | 1 |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Strategie i modele internacjonalizacji przedsiębiorstw                                   | KNU021023     | 2   | 16  | 8   | 8  |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   | 1   | 1 |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Audyt, certyfikacja i zarządzanie dostawcami   | KNU021024     | 2   | 16  | 8   | 8  |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   | 1   | E | 1 |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Proces zarządzania technologiami   | KNU021025     | 2   | 16  |     | 16 |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   | 2       |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           | HES              | Kierowanie zespołem   | KNU021026  | 3             | 24  | 8   | 16  |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    | 1 | 2   |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  | Seminarium dyplomowe magisterskie (obieralne)               | KNU02071   | 3             | 16  |     |     |    |    |    |    |    |     | 16 |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| III       | T                | Systemy informatyczne w procesach produkcyjnych (Siemens)   | KNU03705   | 2             | 16  |     | 16  |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           | T                | Studium przypadku   | KNU03736   | 1             | 8   |     | 8   |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  | HES   | Struktury klastrowe i huby innowacji   | KNU031027     |     |     |     | 16 |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Metody twórczego rozwiązywania problemów   | KNU031028     | 2   | 16  |     |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Modelowanie procesów przemysłowych   | KNU031029     | 3   | 24  | 8   |    |    |    | 16 |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Planowanie prac B+R  | KNU03905      | 1   | 8   |     |    |    |    | 8  |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Wykład specjalistyczny w języku obcym (Współpraca pomiędzy podmiotami poczwórnej helisy) | KNU031059     |     |     |     | 16 |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Wykład specjalistyczny w języku obcym (Dobre praktyki współpracy biznesu z nauką)        | KNU031060     | 2   | 16  |     |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Seminarium dyplomowe magisterskie (obieralne)  | KNU03071      | 2   | 16  |     |    |    |    |    |    |     |    | 16 |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   | Praca dyplomowa (obieralna)  | KNU03221      | 15  |     |     |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  | Praktyka zawodowa   | KNU03220   | 2             |     |     |     |    |    |    |    |    |     |    |    |        |   |   |     |   |   |        |    |   |     |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
| R A Z E M |                  |   |  | 90            | 568 | 192 | 216 | 8  | 48 | 72 | 0  | 32 | 29  |    |    |        |   |   | 29  |   |   |        |    |   | 13  |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |
|           |                  |   |  |               |     |     |     |    |    |    |    |    | 3 E |    |    |        |   |   | 3 E |   |   |        |    |   | 0 E |   |   |         |   |    |   |   |  |  |  |  |  |  |  |  |  |