

| 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 | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|----------|----|---|---|---|---|----------------------------------|----|----------|----|---|---|---|--|---|----|----------|----|----|---|---|---|---|----|----------|----|---|---|---|---|---|----|----------|----|--|----|---|---|---|----|----------|-----------------------------|---|----|---|---|---|----|----------|---|---|---|---|---|----|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | Materiały aktywne | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | MCR036201 | | | | | | | 1 1 | | | | | | | 1 1 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Blok wybieralny: Programowanie proceduralne | | | | | | | | | | | | | | | | | | | | | Modelowanie systemów | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | MCR036202 | | | | | | | 1 1 | | | | | | | 1 1 | | | | | | |
| MCR033101BK | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Podstawy metrologii | | | | | | | Blok wybieralny: Informatyka | | | | | | | Instalacje elektryczne i układy zasilania | | | | | | | Blok wybieralny: Komunikacja sieciowa | | | | | | | Energoelektronika | | | | | | | Prototypowanie systemów sterowania | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | 1 1 | | | | | | | 1 1 | | | | | | | 1 1 | | | | | | | 2 1 | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | |
| MCR031001 | | | | | | | MCR032101BK | | | | | | | MCR033001 | | | | | | | MCR034101BK | | | | | | | MCR035201 | | | | | | | MCR036203 | | | | | | | | | | | | | | | | | | | | |
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| Grafika inżynierska | | | | | | | Ochrona własności intelektualnej | | | | | | | Materiałoznawstwo II E | | | | | | | Blok wybieralny: Programowanie obiektowe | | | | | | | Blok wybieralny: Sensoryka | | | | | | | Blok wybieralny: CAD 3D - MES | | | | | | | | | | | | | | | | | | | | |
| 1 2 | | | | | | | 1 | | | | | | | 2 1 | | | | | | | 3 | | | | | | | 1 1 | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| MCM031001 | | | | | | | MCR032001 | | | | | | | MCR033002 | | | | | | | MCR034102BK | | | | | | | MCR035101BK | | | | | | | MCR036101BK | | | | | | | | | | | | | | | | | | | | |
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| Podstawy zarządzania | | | | | | | Podstawy elektrotechniki E | | | | | | | Inżynieria programowania i UML | | | | | | | Metrologia elektryczna | | | | | | | Blok wybieralny: Układy logiczne | | | | | | | Blok wybieralny: Interdyscyplinarny projekt zespołowy | | | | | | | | | | | | | | | | | | | | |
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| MCM031002 | | | | | | | MCR032002 | | | | | | | MCM033001 | | | | | | | MCR034001 | | | | | | | MCR035102BK | | | | | | | MCR036102BK | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | 2 | | | | | | | 1 | | | | | | | 1 | | | | | | | 1 | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | |
| Technologie informacyjne | | | | | | | Ergonomia i BHP | | | | | | | Mechanika II (Dynamika) E | | | | | | | Podstawy automatyki E | | | | | | | Napędy elektryczne E | | | | | | | Blok wybieralny: Przetwarzanie sygnałów | | | | | | | | | | | | | | | | | | | | |
| 1 1 | | | | | | | 1 | | | | | | | 2 2 | | | | | | | 3 | | | | | | | 2 3 | | | | | | | 1 2 | | | | | | | | | | | | | | | | | | | | |
| MCM031003 | | | | | | | MCM032001 | | | | | | | MCM033002 | | | | | | | MCR034002 | | | | | | | MCR035001 | | | | | | | MCR036103BK | | | | | | | | | | | | | | | | | | | | |
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| Wstęp do mechatroniki | | | | | | | Materiałoznawstwo I | | | | | | | Wytrzymałość materiałów | | | | | | | Analiza i synteza układów kinematycznych E | | | | | | | Podstawy automatyki | | | | | | | Blok wybieralny: Zastosowanie mikrosystemów | | | | | | | Automatyka w budynku | | | | | | | | | | | | | |
| 1 | | | | | | | 2 1 | | | | | | | 2 2 | | | | | | | 2 2 | | | | | | | 1 | | | | | | | 2 2 | | | | | | | 2 2 | | | | | | | | | | | | | |
| MCM031004 | | | | | | | MCM032002 | | | | | | | MCM033003 | | | | | | | MCM034001 | | | | | | | MCR035002 | | | | | | | MCR036104BK | | | | | | | MCR037201 | | | | | | | | | | | | | |
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| Chemia | | | | | | | Mechanika I (Statyka) | | | | | | | Podstawy technik wytwarzania | | | | | | | Metrologia wielkości geometrycznych | | | | | | | Teoria i technika sterowania E | | | | | | | Projektowanie układów mechatronicznych | | | | | | | Metody numeryczne | | | | | | | | | | | | | |
| 2 | | | | | | | 3 2 | | | | | | | 1 | | | | | | | 1 2 | | | | | | | 3 2 | | | | | | | 2 2 | | | | | | | 2 | | | | | | | | | | | | | |
| MCD031001 | | | | | | | MCM032003 | | | | | | | MCM033004 | | | | | | | MCM034002 | | | | | | | MCR035003 | | | | | | | MCM036001 | | | | | | | MCR037202 | | | | | | | | | | | | | |
| 2 | | | | | | | 2 | | | | | | | 2 | | | | | | | 1 | | | | | | | 2 | | | | | | | 1 | | | | | | | 2 | | | | | | | | | | | | | |
| Algebra z geometrią analityczną E | | | | | | | Elementy i układy elektroniczne | | | | | | | Elementy i układy elektroniczne | | | | | | | Podstawy technik wytwarzania | | | | | | | Podstawy projektowania zespołów mechanicznych | | | | | | | Roboty przemysłowe E | | | | | | | Technologie cienkowarstwowe | | | | | | | | | | | | | |
| 2 2 | | | | | | | 2 | | | | | | | 2 | | | | | | | 2 | | | | | | | 2 3 | | | | | | | 1 2 | | | | | | | 2 2 | | | | | | | | | | | | | |
| MAP001140 | | | | | | | MCD032001 | | | | | | | MCD033001 | | | | | | | MCM034003 | | | | | | | MCM035001 | | | | | | | MCM036002 | | | | | | | MCR037203 | | | | | | | | | | | | | |
| 2 | | | | | | | 2 | | | | | | | 2 | | | | | | | 3 | | | | | | | 2 | | | | | | | 2 | | | | | | | 1 | | | | | | | | | | | | | |
| Analiza matematyczna 1.1 A E | | | | | | | Analiza matematyczna 2.1 A E | | | | | | | Równania różniczkowe zwyczajne | | | | | | | Systemy wytwarzania i montażu | | | | | | | Układy napędowe elementy hydrauliczne i elementy pneumatyczne E | | | | | | | Zarządzanie projektami | | | | | | | Seminarium dyplomowe | | | | | | | | | | | | | |
| 5 3 | | | | | | | 4 3 | | | | | | | 2 2 | | | | | | | 2 1 | | | | | | | 2 1 | | | | | | | 1 | | | | | | | 2 | | | | | | | | | | | | | |
| MAP001142 | | | | | | | MAP001156 | | | | | | | MAP003062 | | | | | | | MCM034004 | | | | | | | MCM035002 | | | | | | | MCM036003 | | | | | | | MCR037018,28,38 | | | | | | | | | | | | | |
| 2 | | | | | | | 2 | | | | | | | 1 | | | | | | | 2 | | | | | | | 2 | | | | | | | 1 | | | | | | | 2 | | | | | | | | | | | | | |
| Fizyka 1.2 E | | | | | | | Fizyka 2.8 E | | | | | | | Statystyka stosowana | | | | | | | Podstawy techniki mikroprocesorowej E | | | | | | | Podstawy projektowania układów elektronicznych | | | | | | | Mikrosystemy (MEMS) E | | | | | | | PRACA DYPLOMOWA | | | | | | | | | | | | | |
| 4 2 | | | | | | | 2 2 | | | | | | | 2 2 | | | | | | | 2 2 | | | | | | | 1 | | | | | | | 2 2 | | | | | | | 12 | | | | | | | | | | | | | |
| FZP001058 | | | | | | | FZP003002 | | | | | | | MAP003061 | | | | | | | MCD034001 | | | | | | | MCD035001 | | | | | | | MCD036001 | | | | | | | MCR037019,29,39 | | | | | | | | | | | | | |
| 2 | | | | | | | 1 | | | | | | | 1 | | | | | | | 1 | | | | | | | 2 | | | | | | | 2 | | | | | | | 2 | | | | | | | | | | | | | |
| Przedmiot HUMANISTYCZNY | | | | | | | Zajęcia sportowe | | | | | | | Język obcy poziom B2 | | | | | | | Język obcy poziom B2 | | | | | | | Zastosowanie optoelektroniki | | | | | | | Podstawy projektowania układów elektronicznych | | | | | | | PRAKTYKA | | | | | | | | | | | | | |
| 2 | | | | | | | 1 | | | | | | | 2 | | | | | | | 3 | | | | | | | 1 1 | | | | | | | 1 | | | | | | | 6 | | | | | | | | | | | | | |
| HMH100035BK | | | | | | | WFW000000BK | | | | | | | JZL100400BK | | | | | | | JZL100400BK | | | | | | | MCD035002 | | | | | | | MCD036002 | | | | | | | MCR030055Q | | | | | | | | | | | | | |
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| sem. 1 | | | | | | | sem. 2 | | | | | | | sem. 3 | | | | | | | sem. 4 | | | | | | | sem. 5 | | | | | | | sem. 6 | | | | | | | sem. 7 | | | | | | | | | | | | | |
| 30 | ECTS | 20 | 7 | 3 | 0 | 0 | 0 | 30 | ECTS | 19 | 6 | 4 | 0 | 0 | 1 | 30 | ECTS | 13 | 11 | 6 | 0 | 0 | 0 | 30 | ECTS | 12 | 3 | 13 | 2 | 0 | 0 | 30 | ECTS | 15 | 0 | 12 | 3 | 0 | 0 | 30 | ECTS | 11 | 0 | 13 | 6 | 0 | 0 | 30 | ECTS | 4 | 0 | 2 | 4 | 2 | 18 |
| 24 | l. godz. | 16 | 5 | 3 | 0 | 0 | 0 | 26 | l. godz. | 15 | 5 | 4 | 0 | 0 | 2 | 26 | l. godz. | 11 | 10 | 5 | 0 | 0 | 0 | 27 | l. godz. | 10 | 4 | 11 | 2 | 0 | 0 | 27 | l. godz. | 14 | 0 | 11 | 2 | 0 | 0 | 27 | l. godz. | 11 | 0 | 10 | 6 | 0 | 0 | 11 | l. godz. | 2 | 0 | 2 | 3 | 2 | 2 |

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| razem | W | C | L | P | S | BK | ECTS |
| | 79 | 24 | 46 | 13 | 2 | 4 | 210 |
| | 168 | | | | | | |

BK - blok kursów wybieralnych

| Blok wybieralny: Informatyka | |
|---|-----|
| Wprowadzenie do programowania | |
| | 1 1 |
| MCR032101 | 2 2 |
| Wprowadzenie do informatyki | |
| | 1 1 |
| MCM032101 | 2 2 |
| Podstawy informatyki | |
| | 1 1 |
| MCD032101 | 2 2 |

| Blok wybieralny: Programowanie proceduralne | |
|--|---|
| Programowanie w Matlabie | |
| | 3 |
| MCR033101 | 2 |
| Programowanie w C | |
| | 3 |
| MCM033101 | 2 |
| Praktyka programowania w języku C | |
| | 3 |
| MCD033101 | 2 |

| Blok wybieralny: Komunikacja sieciowa | |
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| Elementy sieci komputerowych | |
| | 1 1 |
| MCR034101 | 1 1 |
| Sieci przemysłowe | |
| | 1 1 |
| MCM034101 | 1 1 |
| Wprowadzenie do sieci komputerowych | |
| | 1 1 |
| MCD034101 | 1 1 |

| Blok wybieralny: Programowanie obiektowe | |
|---|---|
| Programowanie obiektowe w Matlabie | |
| | 3 |
| MCR034102 | 2 |
| Programowanie w C++ | |
| | 3 |
| MCM034102 | 2 |
| Programowanie obiektowe | |
| | 3 |
| MCD034102 | 2 |

| Blok wybieralny: Sensoryka | |
|---------------------------------------|-----|
| Sensory - właściwości i zastosowania | |
| | 1 1 |
| MCR035101 | 1 2 |
| Sensory w systemach wytórczych | |
| | 1 1 |
| MCM035101 | 1 2 |
| Sensory i aktuatory | |
| | 1 1 |
| MCD035101 | 1 2 |

| Blok wybieralny: Układy logiczne | |
|---|-----|
| Programowanie systemów rozproszonych na bazie sterowników PLC | |
| | 1 2 |
| MCR035102 | 1 1 |
| Sterowniki PLC | |
| | 1 2 |
| MCM035102 | 1 1 |
| Modelowanie układów logicznych | |
| | 1 2 |
| MCD035102 | 1 1 |

| Blok wybieralny: CAD 3D-MES | |
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| Projektowanie MES w mechatronice | |
| | 2 |
| MCR036101 | 2 |
| CAD/MES | |
| | 2 |
| MCM036101 | 2 |
| Projektowanie numeryczne konstrukcji mikroelektronicznych | |
| | 2 |
| MCD036101 | 2 |

| Blok wybieralny: | |
|-------------------------------------|---|
| Interdyscyplinary projekt zespołowy | |
| | 3 |
| MCR036102 | 2 |
| Interdyscyplinary projekt zespołowy | |
| | 3 |
| MCM036102 | 2 |
| Interdyscyplinary projekt zespołowy | |
| | 3 |
| MCD036102 | 2 |

| Blok wybieralny: Przetwarzanie sygnałów | |
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| Cyfrowe przetwarzanie sygnałów | |
| | 1 2 |
| MCR036103 | 1 1 |
| Przetwarzanie sygnałów | |
| | 1 2 |
| MCM036103 | 1 1 |
| Metody przetwarzania sygnałów | |
| | 1 2 |
| MCD036103 | 1 1 |

| Blok wybieralny: Zastowanie mikrosystemów | |
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| Mikrosystemy w pomiarach | |
| | 1 1 |
| MCR036104 | 1 1 |
| Mikrosystemy w sterowaniu | |
| | 1 1 |
| MCM036105 | 1 1 |
| Mechatronika w medycynie | |
| | 1 1 |
| MCM036104 | 1 1 |
| Systemy mechatroniczne w technologiach wytórczych | |
| | 1 1 |
| MCM036105 | 1 1 |
| Mikrosystemy w medycynie | |
| | 1 1 |
| MCD036104 | 1 1 |
| Mikrosystemy w motoryzacji | |
| | 1 1 |
| MCD036105 | 1 1 |