*Załącznik nr 1a do Uchwały nr 253 Senatu UZ z dnia 25.03.2026 r.*

# PLAN STUDIÓW STACJONARNYCH

Nazwa kierunku studiów: **Elektrotechnika** 1 stopnia

Forma studiów: **stacjonarne**

Rekrutacja w roku akademickim 2026/2027

czas trwania: 7 semestrów

Uniwersytet Zielonogórski

WYDZIAŁ NAUK INŻYNIERYJNO-TECHNICZNYCH

| LP. | | NAZWA PRZEDMIOTU | Liczba godzin | | ECTS | Forma zal | SEMESTR 1 | | | | | | | | SEMESTR 2 | | | | | | | | SEMESTR 3 | | | | | | | |
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| | | | | | | | Forma zajęć | | | | | | | | Forma zajęć | | | | | | | | Forma zajęć | | | | | | | |
| | | | ogółem | w tym elearing | | | W | Ć | L | P | S | Pr | Forma zal | ECTS | W | Ć | L | P | S | Pr | Forma zal | ECTS | W | Ć | L | P | S | Pr | Forma zal | ECTS |
| 1 | Moduł przedmiotów podstawowych i kierunkowych | Analiza matematyczna I | 60 | | 6 | E/ZO | 30 | 30 | | | | | E/ZO | 6 | | | | | | | | | | | | | | | | |
| 2 | | Algebra liniowa z geometrią analityczną | 60 | | 6 | E/ZO | 30 | 30 | | | | | E/ZO | 6 | | | | | | | | | | | | | | | | |
| 3 | | Fizyka | 75 | | 5 | ZO/ZO | 30 | 30 | 15 | | | | ZO/ZO | 5 | | | | | | | | | | | | | | | | |
| 4 | | Podstawy techniki cyfrowej | 60 | | 4 | ZO/ZO | | | | | | | | | | | | | | | | | 30 | | 30 | | | | ZO/ZO | 4 |
| 5 | | Graficzny zapis konstrukcji | 30 | | 2 | ZO/ZO | | | 30 | | | | ZO/ZO | 2 | | | | | | | | | | | | | | | | |
| 6 | | Analiza matematyczna II | 60 | | 4 | E/ZO | | | | | | | | | 30 | 30 | | | | | E/ZO | 4 | | | | | | | | |
| 7 | | Inżynieria materiałowa w elektrotechnice | 45 | | 3 | ZO/ZO | | | | | | | | | 30 | | 15 | | | | ZO/ZO | 3 | | | | | | | | |
| 8 | | Metody numeryczne w elektrotechnice | 30 | | 3 | ZO/ZO | | | | | | | | | 15 | | 15 | | | | ZO/ZO | 3 | | | | | | | | |
| 9 | | Podstawy elektrotechniki | 105 | | 8 | E/ZO | 30 | 45 | 30 | | | | E/ZO | 8 | | | | | | | | | | | | | | | | |
| 10 | | Teoria obwodów I | 90 | | 7 | E/ZO/ZO | | | | | | | | | 30 | 30 | 30 | | | | E/ZO/ZO | 7 | | | | | | | | |
| 11 | | Podstawy metrologii | 75 | | 6 | E/ZO/ZO | | | | | | | | | 30 | 15 | 30 | | | | E/ZO/ZO | 6 | | | | | | | | |
| 12 | | Podstawy elektroenergetyki | 60 | | 6 | E/ZO | | | | | | | | | | | | | | | | | 30 | | 30 | | | | E/ZO | 6 |
| 13 | | Elektronika | 60 | | 6 | E/ZO | | | | | | | | | | | | | | | | | 30 | | 30 | | | | E/ZO | 6 |
| 14 | | Certyfikacja systemów elektroenergetycznych | 30 | | 2 | ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | Technika mikroprocesorowa | 60 | | 5 | ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | Podstawy automatyki | 60 | | 5 | ZO/ZO | | | | | | | | | | | | | | | | | 30 | | 30 | | | | ZO/ZO | 5 |
| 17 | | Maszyny i napęd elektryczny | 60 | | 5 | E/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | Technika wysokich napięć | 60 | | 5 | ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | Metody analizy danych | 45 | | 4 | ZO/ZO | | | | | | | | | 30 | 15 | | | | | ZO/ZO | 4 | | | | | | | | |
| 20 | | Podstawy programowania I | 30 | | 2 | ZO/ZO | 15 | | 15 | | | | ZO/ZO | 2 | | | | | | | | | | | | | | | | |
| 21 | | Teoria obwodów II | 60 | | 5 | E/ZO | | | | | | | | | | | | | | | | | 30 | 15 | 15 | | | | E/ZO | 5 |
| 22 | | Metrologia | 60 | | 5 | E/ZO | | | | | | | | | | | | | | | | | 30 | | 30 | | | | E/ZO | 5 |
| 23 | | Energoelektronika | 60 | | 5 | E/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | Urządzenia elektryczne i technika oświetleniowa | 60 | | 5 | ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | | Projektowanie instalacji elektrycznych | 30 | | 3 | ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | | Podstawy programowania II | 30 | | 3 | ZO/ZO | | | | | | | | | | | | | | | | | 15 | | 15 | | | | ZO/ZO | 3 |
| 27 | Moduł przedmiotów ogólnych | Bezpieczeństwo pracy z elementami ergonomii | 15 | | 1 | ZO | 15 | | | | | | ZO | 1 | | | | | | | | | | | | | | | | |
| 28 | | Ochrona własności intelektualnej | 15 | | 1 | ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | | Zarządzanie małym i średnim przedsiębiorstwem | 15 | | 1 | ZO | | | | | | | | | 15 | | | | | | ZO | 1 | | | | | | | | |
| 30 | | Język angielski/Język niemiecki I | 30 | | 2 | ZO | | | | | | | | | | | 30 | | | | ZO | 2 | | | | | | | | |
| 31 | | Język angielski/ Język niemiecki II | 30 | | 2 | ZO | | | | | | | | | | | | | | | | | | | 30 | | | | ZO | 2 |
| 32 | | Język angielski/ Język niemiecki III | 30 | | 2 | ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | | Język angielski/ Język niemiecki IV | 30 | | 3 | E | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | | Wychowanie fizyczne | 60 | | 0 | ZZ | | | | | | | | | | | | | | | | | | 30 | | | | | Z | 0 |
| 35 | | Komunikacja interpersonalna | 15 | | 1 | ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | | Redakcja prac dyplomowych | 15 | | 1 | ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | Moduł dyplomowania | Proseminarium I | 15 | | 2 | ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | | Proseminarium II | 30 | | 3 | ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | | Seminarium dyplomowe | 100 | | 20 | ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | | Praca przejściowa | 15 | | 2 | zo | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | | Praktyka zawodowa | 160 | | 6 | Z | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Specjalność - Cyfrowe Systemy Pomiarowe | Komputerowe projektowanie inżynierskie | 75 | | 5 | ZO/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | Przetworniki pomiarowe | 60 | | 5 | E/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | Systemy mikroprocesorowe | 75 | | 5 | ZO/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | Cyfrowe przetwarzanie sygnałów | 60 | | 5 | E/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | Cyfrowe systemy pomiarowe | 60 | | 4 | E/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | Bezprzewodowe sieci sensorowe | 60 | | 4 | ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | Elektroniczne przyrządy pomiarowe | 60 | | 5 | E/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | Sensory i sterowniki PLC | 60 | | 5 | ZO/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | Projekt grupowy | 60 | | 5 | ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Specjalność - Elektroenergetyka i Energoelektronika | Przetwarzanie sygnałów z zastosowaniem mikrokontrolerów | 60 | | 5 | ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | Modelowanie i komputerowe wspomaganie projektowania | 60 | | 5 | E/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | Przesył i rozdział energii elektrycznej | 75 | | 5 | ZO/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | Rozproszone źródła energii i transport elektryczny | 75 | | 5 | E/ZO/ZO/ ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | Energooszczędne napędy przekształtnikowe | 60 | | 4 | E/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | Interfejsy energoelektroniczne | 45 | | 4 | ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | Automatyka przemysłowa i sterowniki PLC | 75 | | 5 | E/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | Elektroenergetyczna automatyka zabezpieczeniowa | 60 | | 5 | ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | Projekt grupowy | 60 | | 5 | ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | owe | Komputerowe projektowanie inżynierskie | 75 | | 5 | ZO/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Systemy mikroprocesorowe | 75 | | 5 | ZO/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | |

| LP. | | NAZWA PRZEDMIOTU | SEMESTR 4 | | | | | | | | SEMESTR 5 | | | | | | | | SEMESTR 6 | | | | | | | | SEMESTR 7 | | | | | | | |
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| | | | Forma zajęć | | | | | | | | Forma zajęć | | | | | | | | Forma zajęć | | | | | | | | Forma zajęć | | | | | | | |
| | | | W | Ć | L | P | S | Pr | Forma zal | ECTS | W | Ć | L | P | S | Pr | Forma zal | ECTS | W | Ć | L | P | S | Pr | Forma zal | ECTS | W | Ć | L | P | S | Pr | Forma zal | ECTS |
| 1 | Moduł przedmiotów podstawowych i kierunkowych | Analiza matematyczna I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | Algebra liniowa z geometrią analityczną | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | Fizyka | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | Podstawy techniki cyfrowej | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | Graficzny zapis konstrukcji | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | Analiza matematyczna II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | Inżynieria materiałowa w elektrotechnice | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | Metody numeryczne w elektrotechnice | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | Podstawy elektrotechniki | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | Teoria obwodów I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | Podstawy metrologii | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | Podstawy elektroenergetyki | 30 | | 30 | | | | E/ZO | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | Elektronika | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | Certyfikacja systemów elektroenergetycznych | 30 | | | | | | ZO | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | Technika mikroprocesorowa | 30 | | 30 | | | | ZO/ZO | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | Podstawy automatyki | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | Maszyny i napęd elektryczny | 30 | | 30 | | | | E/ZO | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | Technika wysokich napięć | 30 | | 30 | | | | ZO/ZO | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | Metody analizy danych | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | Podstawy programowania I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | | Teoria obwodów II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | | Metrologia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | | Energoelektronika | 30 | | 30 | | | | E/ZO | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | Urządzenia elektryczne i technika oświetleniowa | | | | | | | | | 30 | | 30 | | | | ZO/ZO | 5 | | | | | | | | | | | | | | | | |
| 25 | | Projektowanie instalacji elektrycznych | | | | | | | | | | | | | | | | | 15 | | 15 | | | | ZO/ZO | 3 | | | | | | | | |
| 26 | | Podstawy programowania II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | Moduł przedmiotów ogólnych | Bezpieczeństwo pracy z elementami ergonomii | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | | Ochrona własności intelektualnej | | | | | | | | | | | | | | | | | 15 | | | | | | ZO | 1 | | | | | | | | |
| 29 | | Zarządzanie małym i średnim przedsiębiorstwem | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | | Język angielski/Język niemiecki I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | | Język angielski/ Język niemiecki II | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | | Język angielski/ Język niemiecki III | | | 30 | | | | ZO | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | | Język angielski/ Język niemiecki IV | | | | | | | | | | | 30 | | | | E | 3 | | | | | | | | | | | | | | | | |
| 34 | | Wychowanie fizyczne | 30 | | | | | | Z | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | | Komunikacja interpersonalna | | | | | | | | | | | | | | | | | | 15 | | | | | ZO | 1 | | | | | | | | |
| 36 | | Redakcja prac dyplomowych | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | | | | | ZO | 1 |
| 37 | Moduł dyplomowania | Proseminarium I | | | | | | | | | | | | | | | | | | | | 15 | | | ZO | 2 | | | | | | | | |
| 38 | | Proseminarium II | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | | ZO | 3 |
| 39 | | Seminarium dyplomowe | | | | | | | | | | | | | | | | | | | | | | | | | | | | 100 | | | ZO | 20 |
| 40 | | Praca przejściowa | | | | | | | | | | | 15 | | | | zo | 2 | | | | | | | | | | | | | | | | |
| 41 | | Praktyka zawodowa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 160 | | Z | 6 |
| 1 | Specjalność - Cyfrowe Systemy Pomiarowe | Komputerowe projektowanie inżynierskie | | | | | | | | | 15 | | 30 | 30 | | | ZO/ZO/ZO | 5 | | | | | | | | | | | | | | | | |
| 2 | | Przetworniki pomiarowe | | | | | | | | | 30 | | 30 | | | | E/ZO | 5 | | | | | | | | | | | | | | | | |
| 3 | | Systemy mikroprocesorowe | | | | | | | | | 30 | | 30 | 15 | | | ZO/ZO/ZO | 5 | | | | | | | | | | | | | | | | |
| 4 | | Cyfrowe przetwarzanie sygnałów | | | | | | | | | 30 | | 30 | | | | E/ZO | 5 | | | | | | | | | | | | | | | | |
| 5 | | Cyfrowe systemy pomiarowe | | | | | | | | | | | | | | | | | 30 | | 30 | | | | E/ZO | 4 | | | | | | | | |
| 6 | | Bezprzewodowe sieci sensorowe | | | | | | | | | | | | | | | | | 30 | | 30 | | | | ZO/ZO | 4 | | | | | | | | |
| 7 | | Elektroniczne przyrządy pomiarowe | | | | | | | | | | | | | | | | | 30 | | 30 | | | | E/ZO | 5 | | | | | | | | |
| 8 | | Sensory i sterowniki PLC | | | | | | | | | | | | | | | | | 15 | | 30 | 15 | | | ZO/ZO/ZO | 5 | | | | | | | | |
| 9 | | Projekt grupowy | | | | | | | | | | | | | | | | | | | | 60 | | | ZO | 5 | | | | | | | | |
| 1 | Specjalność - Elektroenergetyka i Energoelektronika | Przetwarzanie sygnałów z zastosowaniem mikrokontrolerów | | | | | | | | | 30 | | 30 | | | | ZO/ZO | 5 | | | | | | | | | | | | | | | | |
| 2 | | Modelowanie i komputerowe wspomaganie projektowania | | | | | | | | | 30 | | 30 | | | | E/ZO/ZO | 5 | | | | | | | | | | | | | | | | |
| 3 | | Przesył i rozdział energii elektrycznej | | | | | | | | | 30 | 30 | 15 | | | | ZO/ZO/ZO | 5 | | | | | | | | | | | | | | | | |
| 4 | | Rozproszone źródła energii i transport elektryczny | | | | | | | | | 30 | 15 | 15 | 15 | | | E/ZO/ZO/ ZO | 5 | | | | | | | | | | | | | | | | |
| 5 | | Energooszczędne napędy przekształtnikowe | | | | | | | | | | | | | | | | | 30 | | 30 | | | | E/ZO | 4 | | | | | | | | |
| 6 | | Interfejsy energoelektroniczne | | | | | | | | | | | | | | | | | 30 | | 15 | | | | ZO/ZO | 4 | | | | | | | | |
| 7 | | Automatyka przemysłowa i sterowniki PLC | | | | | | | | | | | | | | | | | 30 | | 30 | 15 | | | E/ZO/ZO | 5 | | | | | | | | |
| 8 | | Elektroenergetyczna automatyka zabezpieczeniowa | | | | | | | | | | | | | | | | | 30 | | 30 | | | | ZO/ZO | 5 | | | | | | | | |
| 9 | | Projekt grupowy | | | | | | | | | | | | | | | | | | | | 60 | | | ZO | 5 | | | | | | | | |
| 1 | owe | Komputerowe projektowanie inżynierskie | | | | | | | | | 15 | | 30 | 30 | | | ZO/ZO/ZO | 5 | | | | | | | | | | | | | | | | |
| | | Systemy mikroprocesorowe | | | | | | | | | 30 | | 30 | 15 | | | ZO/ZO/ZO | 5 | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2 | Specjalność - Elektroenergetyka i Systemy Pomia | Przetworniki pomiarowe | 60 | | 5 | E/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | E/ZO | 5 | | | | | | | | | | | | | | | | |
| | | Cyfrowe przetwarzanie sygnałów | 60 | | 5 | E/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | E/ZO | 5 | | | | | | | | | | | | | | | | |
| 3 | | Przesył i rozdział energii elektrycznej | 75 | | 5 | ZO/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 30 | 15 | | | | ZO/ZO/ZO | 5 | | | | | | | | | | | | | | | | |
| | | Rozproszone źródła energii i transport elektryczny | 75 | | 5 | E/ZO/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | 15 | 15 | 15 | | | E/ZO/ZO/ZO | 5 | | | | | | | | | | | | | | | | |
| 4 | | Przetwarzanie sygnałów z zastosowaniem mikrokontorlerów | 60 | | 5 | E/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | E/ZO | 5 | | | | | | | | | | | | | | | | |
| | | Modelowanie i komputerowe wspomaganie projektowania | 60 | | 5 | E/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | E/ZO | 5 | | | | | | | | | | | | | | | | |
| 5 | | Automatyka przemysłowa i sterowniki PLC | 75 | | 5 | E/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | 15 | | | E/ZO/ZO | 5 | | | | | | | | |
| | | Elektroenergetyczna automatyka zabezpieczeniowa | 75 | | 5 | E/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | 15 | | | E/ZO/ZO | 5 | | | | | | | | |
| 6 | | Energooszczędne napędy przekształtnikowe | 45 | | 4 | ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 15 | | | | ZO/ZO | 4 | | | | | | | | |
| | | Interfejsy energoelektroniczne | 45 | | 4 | ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 15 | | | | ZO/ZO | 4 | | | | | | | | |
| 7 | | Cyfrowe systemy pomiarowe | 60 | | 4 | ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | ZO/ZO | 4 | | | | | | | | |
| | | Bezprzewodowe sieci sensorowe | 60 | | 4 | ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | ZO/ZO | 4 | | | | | | | | |
| 8 | | Elektroniczne przyrządy pomiarowe | 60 | | 5 | E/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 30 | | 30 | | | | E/ZO | 5 | | | | | | | | |
| | | Sensory i sterowniki PLC | 60 | | 5 | E/ZO/ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 15 | | 30 | 15 | | | E/ZO/ZO | 5 | | | | | | | | |
| 9 | | Projekt grupowy | 60 | | 5 | ZO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 60 | | | ZO | 5 | | | | | | | | |

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| Moduł przedmiotów obowiązkowych | 1870 | | 161 | | 375 | | 30 | 390 | | 30 | 390 | | 30 | 390 | | 30 | 105 | | 10 | 75 | | 7 | 305 | | 30 |
| specjalność - …………….. | 570 | | 43 | | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 270 | | 20 | 300 | | 23 | 0 | | 0 |
| Praktyki | 160 | | 6 | | | | | | | | | | | | | | | | | | | | | | |
| Praktyki (specjalność …………..) | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Łącznie z praktykami** | **2600** | | **210** | | **375** | | **30** | **390** | | **30** | **390** | | **30** | **390** | | **30** | **375** | | **30** | **375** | | **30** | **305** | | **30** |

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| **Łącznie bez praktyk** | **2440** | | **204** |