

PLAN STUDIÓW

WYDZIAŁ: Wydział Oceanotechniki i Okrętownictwa, Wydział Mechaniczny, Wydział Elektrotechniki i Automatyki

KIERUNEK: Energetyka

poziom kształcenia: I stopnia - inżynierskie

profil: ogólnoakademicki

forma studiów: stacjonarne

| Lp. | O/ F | kod modułu/ przedmiotu* | nazwa zajęć | efekty kształcenia | grupa zajęć** | SEMESTR | | | | | | | liczba punktów ECTS |
|---|---------|----------------------------|---|---|---------------|---------------------|---------------|-----|----|----|---|------------|---------------------------|
| | | | | | | forma zaliczenia | liczba godzin | | | | | razem | |
| | | | | | | | w | ć | l | p | s | | |
| SEMESTR 1 | | | | | | | | | | | | | |
| 1 Energetyka (Kierunek) | | | | | | | | | | | | | |
| 2 Energetyka (PL) (Subkierunek) | | | | | | | | | | | | | |
| 1 | O | PG_00029739 | Szkolenie medyczne i BHP | | | Z | 4 | 0 | 0 | 0 | 0 | 4 | 0 |
| 2 | O | PG_00029740 | Kompetencje infomacyjne | | | Z | 2 | 0 | 0 | 0 | 0 | 2 | 0 |
| 3 | O | PG_00029738 | Szkolenie z platformy eStudent | | | Z | 2 | 0 | 0 | 0 | 0 | 2 | 0 |
| 4 | O | PG_00011090 | Ochrona środowiska w energetyce | K_U02 K_U06 K_W07 K_W09 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 5 | O | PG_00011006 | Geometria i grafika inżynierska | K_U09 K_K01 | | Z | 15 | 30 | 0 | 0 | 0 | 45 | 5 |
| 6 | O | PG_00016814 | Chemia | K_W02 K_U02 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 4 |
| 7 | O | PG_00011002 | BHP i Ergonomia | K_K05 K_U06 K_K04 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 1 |
| 8 | O | PG_00011001 | Ochrona własności intelektualnej i przemysłowej | K_U01 K_W12 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 1 |
| 9 | O | PG_00010690 | Gospodarka i systemy energetyczne | K_U05 K_W10 K_U08 | | E | 30 | 30 | 0 | 0 | 0 | 60 | 7 |
| 10 | O | PG_00016781 | Podstawy komunikacji personalnej | K_K06 K_K05 K_U01 K_K04 K_K01 | | Z | 0 | 0 | 0 | 30 | 0 | 30 | 3 |
| 11 | O | PG_00010814 | Matematyka I | K_U05 K_W01 | | E | 30 | 60 | 0 | 0 | 0 | 90 | 5 |
| suma: | | | | | | | 158 | 120 | 30 | 30 | 0 | 338 | 30 |
| 2 Energetyka (ENG) (Subkierunek) | | | | | | | | | | | | | |

| 3 Energy Technologies (Specjalność) | | | | | | | | | | | | | |
|--|---|-------------|--|---|--|---|-----|-----|----|----|---|-----|----|
| 1 | O | PG_00029820 | Occupational Health and Safety Ergonomics | | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 1 |
| 2 | O | PG_00029825 | Mathematics 1 | K_W01 K_U05 | | E | 30 | 60 | 0 | 0 | 0 | 90 | 6 |
| 3 | O | PG_00029824 | Energy Systems | K_U08 K_W10 K_U05 | | E | 30 | 30 | 0 | 0 | 0 | 60 | 4 |
| 4 | O | PG_00029823 | Geometry and Technical Drawing | K_U09 K_K01 | | Z | 15 | 30 | 0 | 0 | 0 | 45 | 3 |
| 5 | O | PG_00029821 | Chemistry | K_W02 K_U02 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 3 |
| 6 | O | PG_00029830 | Fundamentals of Interpersonal Communication Group Work | K_K01 K_K05 K_K06 K_U01 K_K04 | | Z | 0 | 0 | 0 | 30 | 0 | 30 | 3 |
| 7 | O | PG_00029829 | Technical English | K_U04 K_K01 | | Z | 0 | 30 | 0 | 0 | 0 | 30 | 6 |
| 8 | O | PG_00029828 | Intellectual Property Protection | K_W12 K_U01 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 1 |
| 9 | O | PG_00029827 | Environmental Protection in Energetics | K_W07 K_W09 K_U02 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 3 |
| 10 | O | PG_00029833 | Training in Field of eStudent Platform | | | Z | 2 | 0 | 0 | 0 | 0 | 2 | 0 |
| 11 | O | PG_00029832 | Medical Training | | | Z | 4 | 0 | 0 | 0 | 0 | 4 | 0 |
| 12 | O | PG_00029831 | Information Literacy | | | Z | 2 | 0 | 0 | 0 | 0 | 2 | 0 |
| suma: | | | | | | | 158 | 150 | 30 | 30 | 0 | 368 | 30 |

| SEMESTR 2 | | | | | | | | | | | | | |
|--|---|-------------|-------------------------|----------------|--|---|----|----|----|---|---|----|---|
| 1 Energetyka (Kierunek) | | | | | | | | | | | | | |
| 2 Energetyka (PL) (Subkierunek) | | | | | | | | | | | | | |
| 1 | O | PG_00011405 | Materiały konstrukcyjne | K_U05 K_W04 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 3 |
| 2 | O | PG_00011402 | Matematyka II | K_K01 K_W01 | | E | 45 | 45 | 0 | 0 | 0 | 90 | 7 |
| 3 | O | PG_00011398 | Mechanika techniczna I | K_W04 K_K01 | | Z | 30 | 15 | 0 | 0 | 0 | 45 | 3 |
| 4 | O | PG_00011014 | Etyka | K_U01 K_K04 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 2 |

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| 5 | O | PG_00011407 | Podstawy elektrotechniki i elektroniki I | K_W03 K_U02 K_W05 | | E | 30 | 15 | 0 | 0 | 0 | 45 | 3 |
| 6 | O | PG_00011022 | Podstawy funkcjonowania przedsiębiorstwa | K_W11 K_K03 K_W10 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 3 |
| 7 | O | PG_00010809 | Fizyka I | K_K01 K_W02 | | E | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| 8 | O | PG_00029741 | Technologie informatyczne | K_K01 K_U09 | | Z | 0 | 0 | 45 | 0 | 0 | 45 | 3 |
| 9 | O | | Wytwarzanie I | | | | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 10 | O | PG_00033725 | Technologia budowy maszyn I | K_W06 K_K04 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 11 | O | PG_00011408 | Techniki wytwarzania I | K_W06 K_K04 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| suma: | | | | | | | 240 | 75 | 75 | 0 | 0 | 390 | 30 |
| 2 Energetyka (ENG) (Subkierunek) | | | | | | | | | | | | | |
| 3 Energy Technologies (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00029834 | Group Work | K_U01 K_U08 K_K02 | | Z | 0 | 0 | 0 | 30 | 0 | 30 | 2 |
| 2 | O | PG_00029838 | Technical Mechanics 1 | K_W04 K_K01 | | Z | 30 | 15 | 0 | 0 | 0 | 45 | 3 |
| 3 | O | PG_00029837 | Structural Materials | K_W04 K_U05 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 4 |
| 4 | O | PG_00029836 | Mathematics 2 | K_W01 K_K01 | | E | 45 | 45 | 0 | 0 | 0 | 90 | 6 |
| 5 | O | PG_00029835 | Physics 1 | K_W02 K_K02 | | E | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| 6 | O | PG_00029842 | Introductory CDIO Project | K_U01 K_U04 K_U02 K_U03 | | Z | 0 | 0 | 0 | 45 | 0 | 45 | 4 |
| 7 | O | PG_00029841 | Manufacturing Techniques 1 | K_W06 K_K04 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 3 |
| 8 | O | PG_00029840 | Fundamentals of Company Functioning | K_W11 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 3 |
| 9 | O | PG_00029839 | Fundamentals of Electrical Engineering and Electronics 1 | K_W03 K_W05 K_U02 | | E | 30 | 15 | 0 | 0 | 0 | 45 | 3 |
| suma: | | | | | | | 210 | 75 | 30 | 75 | 0 | 390 | 30 |

SEMESTR 3

| 1 Energetyka (Kierunek) | | | | | | | | | | | | | |
|--|---|-------------|---|-------------------------|--|---|-----|-----|----|---|---|-----|----|
| 2 Energetyka (PL) (Subkierunek) | | | | | | | | | | | | | |
| 1 | O | PG_00022751 | Marketing i dystrybucja | K_W11 K_K03 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| 2 | O | PG_00011412 | Termodynamika techniczna I | K_U07 K_W02 | | E | 30 | 15 | 15 | 0 | 0 | 60 | 6 |
| 3 | O | PG_00011017 | Zarządzanie finansami przedsiębiorstwa | K_W11 K_K01 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| 4 | O | PG_00022748 | Język angielski I | K_U04 K_K01 | | Z | 0 | 30 | 0 | 0 | 0 | 30 | 2 |
| 5 | O | PG_00010275 | Fizyka II | K_W02 K_U02 | | Z | 0 | 0 | 30 | 0 | 0 | 30 | 2 |
| 6 | O | PG_00022757 | Podstawy Elektrotechniki i Elektroniki II | K_U06 K_W03 K_W05 | | E | 15 | 0 | 15 | 0 | 0 | 30 | 3 |
| 7 | O | PG_00022761 | Zastosowanie matematyki w technice | K_U05 K_W01 | | Z | 15 | 15 | 0 | 0 | 0 | 30 | 3 |
| 8 | O | PG_00022753 | Mechanika Techniczna II | K_W04 K_U05 | | E | 30 | 15 | 0 | 0 | 0 | 45 | 4 |
| 9 | O | PG_00029742 | Wychowanie fizyczne I | K_K02 K_K03 | | Z | 0 | 30 | 0 | 0 | 0 | 30 | 1 |
| 10 | O | | Eksploatacja siłowni | | | | 15 | 0 | 0 | 0 | 0 | 15 | 2 |
| 11 | O | PG_00033726 | Materiały eksploatacyjne siłowni | K_W06 K_K06 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 2 |
| 12 | O | PG_00022755 | Paliwa, oleje i smary | K_K06 K_W06 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 2 |
| 13 | O | | Wytwarzanie II | | | | 15 | 0 | 15 | 0 | 0 | 30 | 3 |
| 14 | O | PG_00033727 | Technologia budowy maszyn II | K_W06 K_U01 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 3 |
| 15 | O | PG_00022759 | Techniki wytwarzania II | K_W06 K_U01 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 3 |
| suma: | | | | | | | 180 | 105 | 75 | 0 | 0 | 360 | 30 |
| 2 Energetyka (ENG) (Subkierunek) | | | | | | | | | | | | | |
| 3 Energy Technologies (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00042306 | Fuels, Oil and Greases | K_K06 K_W06 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 2 |
| 2 | O | PG_00029846 | Technical Mechanics 2 | K_U05 K_W04 | | E | 30 | 15 | 0 | 0 | 0 | 45 | 4 |
| 3 | O | PG_00029845 | Machines Design 1 | K_W04 K_U01 | | Z | 15 | 15 | 0 | 0 | 0 | 30 | 2 |
| 4 | O | PG_00029844 | Introduction to CAD/CAM | K_W01 K_U02 | | Z | 0 | 0 | 30 | 0 | 0 | 30 | 2 |

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| 5 | O | PG_00029843 | Physics 2 | K_W02 K_U02 | | Z | 0 | 0 | 30 | 0 | 0 | 30 | 2 |
| 6 | O | PG_00029850 | Technical Thermodynamics 1 | K_U07 K_W02 | | E | 30 | 15 | 15 | 0 | 0 | 60 | 6 |
| 7 | O | PG_00029849 | Manufacturing Techniques 2 | K_U01 K_W06 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 3 |
| 8 | O | PG_00029848 | Fundamentals of Electrical Engineering and Electronics 2 | K_W05 K_U06 K_W03 | | E | 15 | 0 | 15 | 0 | 0 | 30 | 3 |
| 9 | O | PG_00029853 | Application of Mathematics in Technology | K_U05 K_W01 | | Z | 15 | 15 | 0 | 0 | 0 | 30 | 3 |
| 10 | O | PG_00029852 | Financial Management in Enterprise | K_K01 K_W11 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| 11 | O | PG_00029851 | Physical Education 1 | K_K02 K_K03 | | Z | 0 | 30 | 0 | 0 | 0 | 30 | 1 |
| suma: | | | | | | | 165 | 90 | 105 | 0 | 0 | 360 | 30 |

| SEMESTR 4 | | | | | | | | | | | | | |
|--|---|-------------|---|----------------------------------|--|---|----|----|----|---|---|----|---|
| 1 Energetyka (Kierunek) | | | | | | | | | | | | | |
| 2 Energetyka (PL) (Subkierunek) | | | | | | | | | | | | | |
| 1 | O | PG_00029746 | Wychowanie fizyczne II | K_K03 K_K02 | | Z | 0 | 30 | 0 | 0 | 0 | 30 | 1 |
| 2 | O | PG_00029745 | Podstawy konstrukcji maszyn I | K_W04 K_U01 | | Z | 15 | 15 | 0 | 0 | 0 | 30 | 2 |
| 3 | O | PG_00022763 | Maszyny elektryczne | K_W05 K_U02 K_U06 K_K05 | | Z | 30 | 15 | 30 | 0 | 0 | 75 | 4 |
| 4 | O | PG_00022765 | Mechanika płynów | K_W02 K_U02 | | E | 30 | 30 | 15 | 0 | 0 | 75 | 5 |
| 5 | O | PG_00011411 | Podstawy energoelektroniki | K_W05 K_W03 K_U02 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 3 |
| 6 | O | PG_00011028 | Zastosowanie matematyki w technice II. Podstawy elektromagnetyzmu | K_U05 K_W01 | | Z | 15 | 15 | 0 | 0 | 0 | 30 | 3 |
| 7 | O | PG_00022769 | Termodynamika techniczna II | K_W02 K_U02 | | E | 15 | 0 | 15 | 0 | 0 | 30 | 3 |
| 8 | O | PG_00011032 | Odnawialne źródła energii | K_W09 K_W06 K_U02 | | Z | 15 | 15 | 15 | 0 | 0 | 45 | 3 |
| 9 | O | PG_00029743 | Język angielski II | K_K01 K_U04 | | Z | 0 | 45 | 0 | 0 | 0 | 45 | 3 |

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| 10 | O | | Problemy pomiarowe - Moduł, 1 przedmiot do wyboru | | | | 30 | 0 | 30 | 0 | 0 | 60 | 3 |
| 11 | O | PG_00033729 | Pomiary i badania eksploatacyjne urządzeń elektrycznych | K_W07 K_W08 | | Z | 30 | 0 | 30 | 0 | 0 | 60 | 3 |
| 12 | O | PG_00033728 | Awarie i ekspertyzy w energetyce | K_W07 K_W08 | | Z | 30 | 0 | 30 | 0 | 0 | 60 | 3 |
| suma: | | | | | | | 180 | 165 | 120 | 0 | 0 | 465 | 30 |
| 2 Energetyka (ENG) (Subkierunek) | | | | | | | | | | | | | |
| 3 Energy Technologies (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00029854 | Electric Machines | K_U02 K_K05 K_U06 K_W05 | | E | 30 | 15 | 30 | 0 | 0 | 75 | 6 |
| 2 | O | PG_00029858 | Machines Design 2 | K_U01 K_W04 | | Z | 15 | 15 | 0 | 15 | 0 | 45 | 3 |
| 3 | O | PG_00029857 | Fundamentals of Power Energonics | K_U02 K_W05 K_W03 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 3 |
| 4 | O | PG_00029856 | Measurements and Measurement Systems | K_W08 K_W07 | | Z | 30 | 0 | 30 | 0 | 0 | 60 | 5 |
| 5 | O | PG_00029855 | Fluid Mechanics | K_U02 K_W02 | | E | 30 | 30 | 15 | 0 | 0 | 75 | 6 |
| 6 | O | PG_00029861 | Application of Mathematics in Technology 2 | K_W01 | | Z | 15 | 15 | 0 | 0 | 0 | 30 | 3 |
| 7 | O | PG_00029860 | Physical Education 2 | K_K03 K_K02 | | Z | 0 | 30 | 0 | 0 | 0 | 30 | 1 |
| 8 | O | PG_00029859 | Technical Thermodynamics 2 | K_W02 K_U02 | | E | 15 | 0 | 15 | 0 | 0 | 30 | 3 |
| suma: | | | | | | | 165 | 105 | 105 | 15 | 0 | 390 | 30 |

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| SEMESTR 5 | | | | | | | | | | | | | |
| 1 Energetyka (Kierunek) | | | | | | | | | | | | | |
| 2 Energetyka (PL) (Subkierunek) | | | | | | | | | | | | | |
| 1 | O | PG_00029747 | Język angielski III | K_K01 K_U04 | | Z | 0 | 45 | 0 | 0 | 0 | 45 | 3 |
| 2 | O | PG_00011036 | Rynek energii | K_W07 K_W10 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| 3 | O | PG_00025619 | Podstawy automatyki | K_W08 K_W03 K_U02 | | E | 30 | 15 | 30 | 0 | 0 | 75 | 6 |
| 4 | O | PG_00025625 | Przesyłanie energii elektrycznej | K_U02 K_W04 K_W05 | | Z | 30 | 15 | 0 | 0 | 0 | 45 | 3 |

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| 5 | O | PG_00025623 | Podstawy konstrukcji maszyn II | K_W04 K_U01 | | Z | 15 | 0 | 0 | 15 | 0 | 30 | 3 |
| 6 | O | PG_00011034 | Technologie i maszyny energetyczne | K_W04 K_W06 K_U02 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 4 |
| 7 | O | PG_00025621 | Podstawy eksploatacji maszyn i urządzeń energetycznych | K_W04 K_W06 K_U02 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 3 |
| 8 | O | | Siłownie energetyki | | | | 30 | 0 | 15 | 0 | 0 | 45 | 4 |
| 9 | O | PG_00025616 | Maszyny ciepłe wirnikowe | K_W06 K_U07 | | E | 30 | 0 | 15 | 0 | 0 | 45 | 4 |
| 10 | O | PG_00033730 | Siłownie wodne i wiatrowe | K_W06 K_U07 | | E | 30 | 0 | 15 | 0 | 0 | 45 | 4 |
| 11 | O | | Wykorzystanie energii | | | | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| 12 | O | PG_00025627 | Racjonalizacja użytkowania energii | K_W09 K_U08 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| 13 | O | PG_00033731 | Zarządzanie energią elektryczną | K_W09 K_U08 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| suma: | | | | | | | 225 | 75 | 75 | 15 | 0 | 390 | 30 |

2 Energetyka (ENG) (Subkierunek)

3 Energy Technologies (Specjalność)

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|---|---|-------------|---|-------------------------|--|---|----|----|----|----|---|----|---|
| 1 | O | PG_00029862 | Renewable Energy Sources | K_W06 K_W09 K_U02 | | Z | 15 | 15 | 15 | 0 | 0 | 45 | 3 |
| 2 | O | PG_00029866 | Machine Design 3 | K_W04 K_U01 | | Z | 0 | 0 | 0 | 30 | 0 | 30 | 3 |
| 3 | O | PG_00029865 | Fundamentals of Machine and Power Engineering Devices | K_U02 K_W06 K_W04 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 3 |
| 4 | O | PG_00029864 | Fundamentals of Automatics | K_W03 K_W08 K_U02 | | E | 30 | 15 | 30 | 0 | 0 | 75 | 6 |
| 5 | O | PG_00029863 | Heat Turbomachinery | K_W06 K_U07 | | E | 30 | 0 | 15 | 0 | 0 | 45 | 4 |
| 6 | O | PG_00029870 | Technology and Energy Conversion Machines | K_W06 K_U02 K_W04 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 3 |
| 7 | O | PG_00029869 | Energy Use Rationalization | K_W09 K_U08 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 2 |

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| 8 | O | PG_00029868 | Intermediate CDIO Project | K_W17 K_U04 K_U02 K_U03 K_U01 | | Z | 0 | 0 | 0 | 45 | 0 | 45 | 3 |
| 9 | O | PG_00029867 | Transfer of Electric Energy | K_U02 K_W04 K_W05 | | Z | 30 | 15 | 0 | 0 | 0 | 45 | 3 |
| suma: | | | | | | | 195 | 45 | 90 | 75 | 0 | 405 | 30 |

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| SEMESTR 6 | | | | | | | | | | | | | |
| 1 Energetyka (Kierunek) | | | | | | | | | | | | | |
| 2 Energetyka (PL) (Subkierunek) | | | | | | | | | | | | | |
| 3 Automatykacja systemów energetycznych (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00031585 | Diagnostyka techniczna maszyn i systemów energetycznych | K_U19 K_W19 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 2 | O | PG_00031581 | Napędy hydrauliczne i pneumatyczne | K_W23 K_U21 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| 3 | O | PG_00031579 | Elementy i układy sterowania hydraulicznego w energetyce | K_W23 K_U20 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 2 |
| 4 | O | PG_00031578 | Wielowymiarowe układy sterowania | K_U18 K_U20 K_W23 | | E | 30 | 0 | 30 | 0 | 0 | 60 | 4 |
| 5 | O | PG_00031586 | Niezawodność i bezpieczeństwo maszyn i systemów energetycznych | K_U01 K_W20 K_W08 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 6 | O | PG_00031584 | Optymalizacja układów sterowania | K_U22 K_U20 K_W23 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 2 |
| 7 | O | PG_00031583 | Modelowanie i symulacja układów sterowania | K_W23 K_U21 K_W03 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 2 |
| 8 | O | PG_00031582 | Sterowanie automatyczne maszyn przepływowych | K_W23 K_U19 K_U18 | | E | 30 | 0 | 30 | 0 | 0 | 60 | 4 |
| 9 | O | PG_00031580 | Sterowanie systemów energetycznych | K_U20 K_W23 | | E | 30 | 0 | 45 | 0 | 0 | 75 | 4 |
| 10 | O | PG_00029749 | Praktyka dyplomowa | K_U02 K_K02 | | Z | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| suma: | | | | | | | 240 | 0 | 180 | 0 | 0 | 420 | 30 |
| 3 Maszyny Przepływowe (Specjalność) | | | | | | | | | | | | | |

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|--|---|-------------|---|---|--|---|-----|----|----|----|---|-----|----|
| 1 | O | PG_00025629 | Diagnostyka techniczna maszyn i systemów energetycznych | K_W22 K_U01 K_W18 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 2 | O | PG_00010801 | Sprężarki wirnikowe i turbodoładowarki | K_U01 K_W22 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| 3 | O | PG_00025636 | Niezawodność i bezpieczeństwo maszyn i systemów | K_W08 K_W19 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 4 | O | PG_00025643 | Sterowanie automatyczne maszyn przepływowych | K_W22 K_W03 | | Z | 30 | 0 | 30 | 0 | 0 | 60 | 2 |
| 5 | O | PG_00025645 | Turbiny parowe i gazowe | K_W22 K_U07 | | E | 45 | 0 | 0 | 45 | 0 | 90 | 5 |
| 6 | O | PG_00025633 | Konstrukcja turbin parowych i gazowych | K_W22 K_U01 K_W18 | | E | 30 | 0 | 0 | 45 | 0 | 75 | 4 |
| 7 | O | PG_00029749 | Praktyka dyplomowa | K_K02 K_U02 | | Z | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 8 | O | PG_00025640 | Siłownie systemów energetycznych | K_U02 K_W22 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 9 | O | PG_00025631 | Elektrownie wodne i wiatrowe | K_U08 K_W19 K_W06 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| 10 | O | PG_00010795 | Kotły i wymienniki ciepła | K_W18 K_W22 K_U01 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 11 | O | PG_00025647 | Urządzenia transmisji energii mechanicznej | K_U01 K_W06 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 1 |
| suma: | | | | | | | 240 | 0 | 90 | 90 | 0 | 420 | 30 |
| 3 Proekologiczne technologie energetyczne (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00033786 | Kotły, instalacje kotłowe i techniki czystego spalania | K_U15 K_W20 K_W18 K_U16 K_W17 | | Z | 30 | 15 | 15 | 0 | 0 | 60 | 3 |
| 2 | O | PG_00033785 | Metody komputerowe w technice cieplnej | K_U15 K_W17 K_U09 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 3 | O | PG_00033784 | Wymiana i wymienniki ciepła | K_U07 K_U15 K_W17 | | E | 15 | 15 | 15 | 0 | 0 | 45 | 4 |
| 4 | O | PG_00033790 | Techniki pomiarowe w energetyce | K_W08 K_U02 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 5 | O | PG_00033789 | Sprężarki i wentylatory | K_U16 K_W18 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 3 |

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|---|---|-------------|---|----------------------------------|--|---|-----|----|-----|----|---|-----|----|
| 6 | O | PG_00033788 | Metody numeryczne w projektowaniu układów przepływowych | K_U15 K_W17 K_U09 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 7 | O | PG_00033787 | Pompy, turbiny wodne i mała energetyka | K_W18 K_U15 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 8 | O | PG_00029749 | Praktyka dyplomowa | K_U02 K_K02 | | Z | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 9 | O | PG_00033791 | Rurociągi, armatura i osprzęt instalacji energetycznych | K_W18 K_U15 | | Z | 15 | 15 | 15 | 0 | 0 | 45 | 2 |
| 10 | O | PG_00033752 | Praca przejściowa | K_U03 K_U02 K_U01 K_U05 | | Z | 0 | 0 | 0 | 30 | 0 | 30 | 4 |
| suma: | | | | | | | 150 | 45 | 120 | 30 | 0 | 345 | 30 |
| 3 Diagnostyka i eksploatacja systemów energetycznych (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00033784 | Wymiana i wymienniki ciepła | K_U07 K_U15 K_W17 K_W20 | | E | 15 | 15 | 15 | 0 | 0 | 45 | 4 |
| 2 | O | PG_00033788 | Metody numeryczne w projektowaniu układów przepływowych | K_U09 K_U15 K_W17 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 3 | O | PG_00033787 | Pompy, turbiny wodne i mała energetyka | K_W22 K_W21 K_U15 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 4 | O | PG_00033786 | Kotły, instalacje kotłowe i techniki czystego spalania | K_U15 K_W17 K_W20 | | Z | 30 | 15 | 15 | 0 | 0 | 60 | 3 |
| 5 | O | PG_00033785 | Metody komputerowe w technice ciepłej | K_U15 K_W17 K_U09 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 6 | O | PG_00033791 | Rurociągi, armatura i osprzęt instalacji energetycznych | K_U15 K_W22 K_W21 | | Z | 15 | 15 | 15 | 0 | 0 | 45 | 2 |
| 7 | O | PG_00033790 | Techniki pomiarowe w energetyce | K_U02 K_W08 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 8 | O | PG_00033789 | Sprężarki i wentylatory | K_U15 K_W22 K_W21 | | Z | 30 | 0 | 15 | 0 | 0 | 45 | 3 |
| 9 | O | PG_00029749 | Praktyka dyplomowa | K_K02 K_U02 | | Z | 0 | 0 | 0 | 0 | 0 | 0 | 6 |

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|--|---|-------------|--|----------------------------------|--|---|-------|-----|----|-----|----|----|-----|----|
| 10 | O | PG_00033752 | Praca przejściowa | K_U03 K_U02 K_U01 K_U05 | | Z | 0 | 0 | 0 | 30 | 0 | 30 | 4 | |
| | | | | | | | suma: | 150 | 45 | 120 | 30 | 0 | 345 | 30 |
| 3 Rynki Energii i Systemy Energetyczne (Specjalność) | | | | | | | | | | | | | | |
| 1 | O | PG_00033748 | Budynek Inteligentny | K_W09 K_U12 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 | |
| 2 | O | PG_00033745 | Elektrownie wodne | K_U01 K_W13 K_W14 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 1 | |
| 3 | O | PG_00033744 | Elektrownie i elektrociepłownie | K_U05 K_W13 | | E | 15 | 0 | 15 | 15 | 0 | 45 | 3 | |
| 4 | O | PG_00033755 | Systemy ciepłownicze | K_W06 K_U01 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 1 | |
| 5 | O | PG_00033754 | Modelowanie urządzeń energetycznych | K_U05 K_W13 | | E | 15 | 0 | 15 | 15 | 0 | 45 | 3 | |
| 6 | O | PG_00033758 | Podstawy termodynamiki | K_U02 K_W14 | | Z | 15 | 15 | 0 | 0 | 0 | 30 | 2 | |
| 7 | O | PG_00033757 | Systemy elektroenergetyczne | K_W14 K_W13 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 | |
| 8 | O | PG_00033756 | Jądrowe reaktory energetyczne | K_W14 K_W13 | | Z | 15 | 0 | 0 | 15 | 0 | 30 | 2 | |
| 9 | O | PG_00033761 | Metody optymalizacji | K_U05 K_W01 | | E | 15 | 0 | 30 | 0 | 0 | 45 | 3 | |
| 10 | O | PG_00033760 | Efektywność techniczna i ekonomiczna Odnawialnych Źródeł Energii | K_U11 K_W10 K_W09 | | Z | 15 | 0 | 0 | 15 | 0 | 30 | 2 | |
| 11 | O | PG_00033759 | Rynek energii elektrycznej | K_W10 K_U12 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 1 | |
| 12 | O | PG_00033747 | Urządzenia i instalacje elektryczne | K_W13 K_U10 K_W14 | | Z | 15 | 0 | 0 | 15 | 0 | 30 | 2 | |
| 13 | O | PG_00029749 | Praktyka dyplomowa | K_U02 K_K02 | | Z | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| | | | | | | | suma: | 180 | 15 | 90 | 75 | 0 | 360 | 30 |
| 3 Inżynieria eksploatacji w elektroenergetyce (Specjalność) | | | | | | | | | | | | | | |
| 1 | O | PG_00033740 | Oświetlenie elektryczne | K_U08 K_W05 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 | |
| 2 | O | PG_00033739 | Napęd elektryczny | K_W05 K_W15 K_U14 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 | |
| 3 | O | PG_00033738 | Eksploatacja odnawialnych źródeł energii | K_W09 K_U08 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 1 | |

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| 4 | O | PG_00033737 | Automatyka i sterowanie | K_U14 K_W15 | | E | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 5 | O | PG_00033743 | Zarządzanie i sterowanie w Energetyce | K_U14 K_W16 K_W05 | | E | 15 | 0 | 15 | 15 | 0 | 45 | 3 |
| 6 | O | PG_00033742 | Technika wysokich napięć | K_U14 K_W07 K_W16 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 7 | O | PG_00033741 | Sterowniki programowalne | K_U14 K_W15 | | Z | 15 | 0 | 15 | 15 | 0 | 45 | 2 |
| 8 | O | PG_00029749 | Praktyka dyplomowa | K_U02 K_K02 | | Z | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 9 | O | PG_00033747 | Urządzenia i instalacje elektryczne | K_W05 K_U10 K_W16 | | Z | 15 | 0 | 0 | 15 | 0 | 30 | 2 |
| 10 | O | PG_00033746 | Systemy elektroenergetyczne | K_U14 K_W15 K_W07 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 11 | O | PG_00033745 | Elektrownie wodne | K_U14 K_W05 K_W15 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 1 |
| 12 | O | PG_00033744 | Elektrownie i elektrociepłownie | K_W15 K_W05 K_U07 K_U14 | | E | 15 | 0 | 15 | 15 | 0 | 45 | 3 |
| 13 | O | PG_00033748 | Budynek Inteligentny | K_U13 K_U10 K_U08 K_W15 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| suma: | | | | | | | 180 | 0 | 135 | 60 | 0 | 375 | 30 |
| 3 Odnawialne źródła energii (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00033765 | Systemy elektroenergetyczne | K_W14 K_W07 K_U14 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 2 | O | PG_00033772 | Elektrownie słoneczne | K_W13 K_W05 K_U14 | | E | 15 | 0 | 15 | 15 | 0 | 45 | 3 |
| 3 | O | PG_00033776 | Przekształtniki w energetyce odnawialnej | K_U14 K_W05 K_W15 | | Z | 15 | 0 | 0 | 30 | 0 | 45 | 3 |
| 4 | O | PG_00033775 | Urządzenia i instalacje elektryczne | K_U10 K_W13 K_W14 | | Z | 15 | 0 | 0 | 15 | 0 | 30 | 2 |

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|--|---|-------------|---|--|--|---|-----|----|----|----|---|-----|----|
| 5 | O | PG_00033774 | Inteligentne systemy pomiarowe | K_U19 K_W05 K_W08 | | E | 30 | 0 | 15 | 0 | 0 | 45 | 3 |
| 6 | O | PG_00033773 | Elektrownie wiatrowe | K_U14 K_W13 K_W05 | | E | 30 | 0 | 15 | 0 | 0 | 45 | 3 |
| 7 | O | PG_00033780 | Automatyka i sterowanie | K_U14 K_W15 | | Z | 15 | 15 | 0 | 0 | 0 | 30 | 2 |
| 8 | O | PG_00033779 | Kompatybilność elektromagnetyczna | K_U10 K_U06 K_W08 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 9 | O | PG_00033778 | Rynki energii i prawo o OZE | K_W10 K_U12 | | Z | 15 | 0 | 0 | 15 | 0 | 30 | 2 |
| 10 | O | PG_00033777 | Sterowniki programowalne | K_W03 K_U20 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 11 | O | PG_00029749 | Praktyka dyplomowa | K_U02 K_K02 | | Z | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| suma: | | | | | | | 180 | 15 | 90 | 75 | 0 | 360 | 30 |
| 2 Energetyka (ENG) (Subkierunek) | | | | | | | | | | | | | |
| 3 Energy Technologies (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00029872 | Advanced CDIO Project | K_W16 K_U03 K_U05 K_W12 K_U02 K_U01 | | Z | 0 | 0 | 0 | 30 | 0 | 30 | 4 |
| 2 | O | PG_00029871 | Markets of Energy | K_W07 K_W10 K_U08 | | Z | 30 | 0 | 0 | 0 | 0 | 30 | 2 |
| 3 | O | | Elective Subject 1 (WEiA) | | | | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 4 | O | PG_00029874 | Electric Drives (WEiA) | K_U08 K_W05 K_U01 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 5 | O | PG_00029873 | Electrical equipment and installations (WEiA) | K_U01 K_W05 K_U08 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 6 | O | | Elective Subject 2 (WEiA) | | | | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 7 | O | PG_00029876 | Geographical Information Systems GIS (WEiA) | K_W05 K_U01 K_U08 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 8 | O | PG_00029875 | Programmable Controllers (WEiA) | K_U01 K_W05 K_U08 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |

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| 9 | O | | Elective Subjects 3 (WOiO) | | | | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 10 | O | PG_00029877 | Steam and Gas Turbines (WOiO) | K_W06 K_U08 K_U01 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 11 | O | PG_00029878 | Steam and Gas Turbines Constuction (WOiO) | K_U08 K_W06 K_U01 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 12 | O | | Elective Subject 4 (WOiO) | | | | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 13 | O | PG_00029879 | Water and Wind power stations (WOiO) | K_U08 K_U01 K_W06 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 14 | O | PG_00029880 | Technical Diagnostics (WOiO) | K_U08 K_U01 K_W06 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 15 | O | | Elective Subject 5 (WM) | | | | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 16 | O | PG_00029881 | Numerical Modelling in flow systems design (WM) | K_W06 K_U08 K_U01 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 17 | O | PG_00029882 | Pipelines and auxiliary equipment of energy installations (WM) | K_W06 K_U08 K_U01 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 18 | O | | Elective Subject (WM) | | | | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 19 | O | PG_00029883 | Heat transfer and heat exchangers (WM) | K_W06 K_U08 K_U01 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 20 | O | PG_00029884 | Boilers, boiler installations and clean combustion technology (WM) | K_W06 K_U01 K_U08 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| suma: | | | | | | | 120 | 0 | 90 | 30 | 0 | 240 | 30 |

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| SEMESTR 7 | | | | | | | | | | | | | |
| 1 Energetyka (Kierunek) | | | | | | | | | | | | | |
| 2 Energetyka (PL) (Subkierunek) | | | | | | | | | | | | | |
| 3 Automatyzacja systemów energetycznych (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00029752 | Wybrane zagadnienia kierunku dyplomowania | K_U22 K_U21 K_W20 K_W19 | | Z | 0 | 0 | 0 | 0 | 45 | 45 | 6 |

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| 2 | O | PG_00033733 | Projekt dyplomowy inżynierski | K_U03 K_U02 K_U05 K_W12 | | E | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 3 | O | PG_00029751 | Seminarium dyplomowe | K_U03 K_U01 K_K01 | | Z | 0 | 0 | 0 | 0 | 45 | 45 | 7 |
| suma: | | | | | | | 0 | 0 | 0 | 0 | 90 | 90 | 30 |
| 3 Maszyny Przepływowe (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00033733 | Projekt dyplomowy inżynierski | K_U02 K_U05 K_W12 K_U03 | | E | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 2 | O | PG_00029751 | Seminarium dyplomowe | K_U01 K_K01 K_U03 | | Z | 0 | 0 | 0 | 0 | 45 | 45 | 7 |
| 3 | O | PG_00029752 | Wybrane zagadnienia kierunku dyplomowania | K_U09 K_W09 | | Z | 0 | 0 | 0 | 0 | 45 | 45 | 6 |
| suma: | | | | | | | 0 | 0 | 0 | 0 | 90 | 90 | 30 |
| 3 Proekologiczne technologie energetyczne (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00033806 | Energetyczne wykorzystanie odpadów | K_W19 K_U16 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 2 | O | PG_00033805 | Neutralizacja i odpylanie spalin | K_U16 K_W19 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 |
| 3 | O | PG_00033804 | Niekonwencjonalne urządzenia i systemy konwersji energii | K_W20 K_U16 | | Z | 15 | 0 | 7,5 | 0 | 0 | 22,5 | 2 |
| 4 | O | PG_00033753 | Seminarium dyplomowe | K_U01 K_K01 K_U03 | | Z | 0 | 0 | 0 | 0 | 15 | 15 | 1 |
| 5 | O | PG_00033807 | Systemy geotermiczne, geotermalne i solarne do produkcji ciepła i energii elektrycznej | K_W19 K_U16 | | Z | 15 | 0 | 7,5 | 0 | 0 | 22,5 | 2 |
| 6 | O | PG_00033733 | Projekt dyplomowy inżynierski | K_U03 K_U02 K_U05 K_W12 | | Z | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 7 | O | PG_00033803 | Siłownie wiatrowe | | | Z | 15 | 0 | 7,5 | 0 | 0 | 22,5 | 2 |
| 8 | O | PG_00033802 | Lokalne ekologiczne elektrociepłownie z silnikami spalinowymi | K_U16 K_W18 K_W20 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 2 |
| suma: | | | | | | | 90 | 0 | 52,5 | 0 | 15 | 157,5 | 30 |
| 3 Diagnostyka i eksploatacja systemów energetycznych (Specjalność) | | | | | | | | | | | | | |

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|---|---|-------------|--|----------------------------------|--|---|-----|---|------|----|----|-------|----|
| 1 | O | PG_00033794 | Diagnostyka obiegów energetycznych siłowni ciepłych | K_U15 K_W08 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 1 |
| 2 | O | PG_00033799 | Diagnostyka remontu pomp wirnikowych | K_W08 K_U17 | | Z | 7,5 | 0 | 7,5 | 0 | 0 | 15 | 1 |
| 3 | O | PG_00033798 | Technologia remontu maszyn wirnikowych | K_U17 K_W08 | | Z | 7,5 | 0 | 7,5 | 0 | 0 | 15 | 1 |
| 4 | O | PG_00033797 | Technologia remontu silników spalinowych i sprężarek wyporowych | K_U17 K_W08 | | Z | 15 | 0 | 7,5 | 0 | 0 | 22,5 | 2 |
| 5 | O | PG_00033796 | Diagnostyka i eksploatacja systemów ciepło-energetycznych i grzewczych | K_U17 K_W08 | | Z | 15 | 0 | 7,5 | 0 | 0 | 22,5 | 2 |
| 6 | O | PG_00033753 | Seminarium dyplomowe | K_U03 K_K01 K_U01 | | Z | 0 | 0 | 0 | 0 | 15 | 15 | 1 |
| 7 | O | PG_00033801 | Podstawy eksploatacji maszyn energetycznych | K_U17 K_W08 | | Z | 0 | 0 | 15 | 0 | 0 | 15 | 1 |
| 8 | O | PG_00033800 | Podstawy racjonalnej eksploatacji silników spalinowych sprężarek | K_U17 K_W08 | | Z | 15 | 0 | 7,5 | 0 | 0 | 22,5 | 2 |
| 9 | O | PG_00033733 | Projekt dyplomowy inżynierski | K_U03 K_U05 K_W12 K_U02 | | E | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 10 | O | PG_00033792 | Diagnostyka wibracyjna i akustyczna | K_U05 K_W04 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 2 |
| suma: | | | | | | | 90 | 0 | 52,5 | 0 | 15 | 157,5 | 30 |
| 3 Rynki Energii i Systemy Energetyczne (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00033763 | Rachunek ekonomiczny w Energetyce | K_U12 K_W10 | | Z | 15 | 0 | 0 | 15 | 0 | 30 | 2 |
| 2 | O | PG_00033762 | Audyting energetyczny | K_U11 K_W10 K_K06 | | Z | 15 | 0 | 0 | 15 | 0 | 30 | 3 |
| 3 | O | PG_00033733 | Projekt dyplomowy inżynierski | K_W12 K_U02 K_U03 K_U05 | | E | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 4 | O | PG_00033753 | Seminarium dyplomowe | K_U01 K_K01 K_U03 | | Z | 0 | 0 | 0 | 0 | 15 | 15 | 1 |
| 5 | O | PG_00033752 | Praca przejściowa | K_U03 K_U01 K_U02 K_U05 | | Z | 0 | 0 | 0 | 30 | 0 | 30 | 4 |

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|--|---|-------------|---|----------------------------------|--|---|-------|----|----|----|----|----|-----|----|
| 6 | O | PG_00033764 | Bezpieczeństwo w energetyce | K_W07 K_K06 K_U10 | | E | 15 | 0 | 0 | 15 | 0 | 30 | 3 | |
| | | | | | | | suma: | 45 | 0 | 0 | 75 | 15 | 135 | 30 |
| 3 Inżynieria eksploatacji w elektroenergetyce (Specjalność) | | | | | | | | | | | | | | |
| 1 | O | PG_00033750 | Diagnostyka i monitoring | K_W15 K_U14 K_W08 | | Z | 15 | 0 | 0 | 0 | 0 | 15 | 2 | |
| 2 | O | PG_00033749 | System informacji geograficznej GIS | K_U14 K_W15 | | Z | 15 | 15 | 0 | 0 | 0 | 30 | 3 | |
| 3 | O | PG_00033733 | Projekt dyplomowy inżynierski | K_U05 K_W12 K_U03 K_U02 | | Z | 0 | 0 | 0 | 0 | 0 | 0 | 17 | |
| 4 | O | PG_00033752 | Praca przejściowa | K_U01 K_U05 K_U03 K_U02 | | Z | 0 | 0 | 0 | 30 | 0 | 30 | 4 | |
| 5 | O | PG_00033751 | Ochrona przed zagrożeniami elektrycznymi | K_U14 K_W05 K_W15 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 3 | |
| 6 | O | PG_00033753 | Seminarium dyplomowe | K_U01 K_K01 K_U03 | | Z | 0 | 0 | 0 | 0 | 15 | 15 | 1 | |
| | | | | | | | suma: | 45 | 15 | 15 | 30 | 15 | 120 | 30 |
| 3 Odnawialne źródła energii (Specjalność) | | | | | | | | | | | | | | |
| 1 | O | PG_00033783 | Ochrona przed zagrożeniami elektrycznymi | K_W15 K_U06 K_U10 K_W05 | | E | 15 | 0 | 15 | 0 | 0 | 30 | 3 | |
| 2 | O | PG_00033782 | Sterowanie układami energetyki odnawialnej | K_W15 K_W05 K_U14 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 3 | |
| 3 | O | PG_00033781 | Ekologiczne technologie OZE i magazynowanie energii | K_W05 K_U14 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 2 | |
| 4 | O | PG_00033753 | Seminarium dyplomowe | K_U01 K_U03 K_K01 | | Z | 0 | 0 | 0 | 0 | 15 | 15 | 1 | |
| 5 | O | PG_00033733 | Projekt dyplomowy inżynierski | K_U03 K_U02 K_U05 K_W12 | | E | 0 | 0 | 0 | 0 | 0 | 0 | 17 | |

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|--|---|-------------|---|----------------------------------|--|---|----|---|----|----|----|-----|----|
| 6 | O | PG_00033752 | Praca przejściowa | K_U02 K_U01 K_U05 K_U03 | | Z | 0 | 0 | 0 | 30 | 0 | 30 | 4 |
| suma: | | | | | | | 45 | 0 | 45 | 30 | 15 | 135 | 30 |
| 2 Energetyka (ENG) (Subkierunek) | | | | | | | | | | | | | |
| 3 Energy Technologies (Specjalność) | | | | | | | | | | | | | |
| 1 | O | PG_00029891 | First Degree Final Project | K_U05 K_U02 K_W12 | | E | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 2 | O | PG_00029973 | Professional Practice | K_U02 K_K02 | | Z | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| 3 | O | PG_00029892 | Diploma Seminar | K_U03 K_U01 | | Z | 0 | 0 | 0 | 0 | 15 | 15 | 3 |
| 4 | O | | Elective Subject 8 (WOiO) | | | | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 5 | O | PG_00029887 | Energy Systems Stations (WOiO) | K_W05 K_U08 K_U01 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 6 | O | PG_00029888 | Modelling and Simulation of Control Systems Applied in Energy Technologies (WOiO) | K_U08 K_W06 K_U01 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 7 | O | | Elective Subject 9 (WM) | | | | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 8 | O | PG_00029890 | Compressors and fans (WM) | K_W06 K_U01 K_U08 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 9 | O | PG_00029889 | Pumps, turbines and small hydropower (WM) | K_U08 K_U01 K_W06 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 10 | O | | Elective Subject 7 (WEiA) | | | | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 11 | O | PG_00029885 | Energy Auditing (WEiA) | K_U08 K_U01 K_W05 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| 12 | O | PG_00029886 | Accounting in Power Industry (WEiA) | K_U08 K_W05 K_U01 | | Z | 15 | 0 | 15 | 0 | 0 | 30 | 4 |
| suma: | | | | | | | 45 | 0 | 45 | 0 | 15 | 105 | 36 |

| | | | | | | | | | | | | | |
|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| ŁĄCZNIE | | | | | | | | | | | | | |
| PRAKTYKI | | | | | | | | | | | | | |
| Kurs | | | | | | | | | | | | | |

| Automatyzacja systemów energetycznych | |
|--|------|
| SUMA GODZIN | 2453 |
| SUMA ECTS | 210 |

| Maszyny Przepływowe (Specjalność) | |
|--|------|
| SUMA GODZIN | 2453 |
| SUMA ECTS | 210 |

| Proekologiczne technologie energetyczne | |
|--|--------|
| SUMA GODZIN | 2445,5 |
| SUMA ECTS | 210 |

| Diagnostyka i eksploatacja systemów | |
|--|--------|
| SUMA GODZIN | 2445,5 |
| SUMA ECTS | 210 |

| Rynki Energii i Systemy Energetyczne | |
|---|------|
| SUMA GODZIN | 2438 |
| SUMA ECTS | 210 |

| Inżynieria eksploatacji w elektroenergetyce | |
|--|------|
| SUMA GODZIN | 2438 |
| SUMA ECTS | 210 |

| Odnawialne źródła energii (Specjalność) | |
|--|------|
| SUMA GODZIN | 2438 |
| SUMA ECTS | 210 |

| Energy Technologies (Specjalność) | |
|--|------|
| SUMA GODZIN | 2258 |
| SUMA ECTS | 216 |

objaśnienia:

O - przedmiot obowiązkowy do zaliczenia danego roku studiów

F - przedmiot fakultatywny (do wyboru)

w - wykład

ć - ćwiczenia

l - laboratorium

p - projekt

s - seminarium

*kod nadawany przez system "Programy kształcenia"

**grupy zajęć zgodne z załącznikiem nr 1 do niniejszego zarządzenia (w sprawie zasad tworzenia oraz likwidacji kierunków studiów wyższych na Politechnice Gdańskiej)