



Subject card

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|---|--|---|-------------------------------------|------------|---|---------|-----|
| Subject name and code | Markets of energy, PG_00055957 | | | | | | |
| Field of study | Power Engineering | | | | | | |
| Date of commencement of studies | October 2024 | Academic year of realisation of subject | | | 2026/2027 | | |
| Education level | first-cycle studies | Subject group | | | Optional subject group Subject group related to scientific research in the field of study | | |
| Mode of study | Full-time studies | Mode of delivery | | | at the university | | |
| Year of study | 3 | Language of instruction | | | Polish | | |
| Semester of study | 5 | ECTS credits | | | 2.0 | | |
| Learning profile | general academic profile | Assessment form | | | assessment | | |
| Conducting unit | Department of Electrical Power Engineering -> Faculty of Electrical and Control Engineering | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | prof. dr hab. inż. Waldemar Kamrat | | | | | |
| | Teachers | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 15.0 | 0.0 | 0.0 | 0.0 | 30 |
| | E-learning hours included: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | Participation in consultation hours | | Self-study | | SUM |
| | Number of study hours | 30 | 2.0 | | 18.0 | | 50 |
| Subject objectives | The aim of the course is to present students with issues concerning the most important problems related to the creation and functioning of energy markets | | | | | | |
| Learning outcomes | Course outcome | Subject outcome | | | Method of verification | | |
| | [K6_W07] knows the basics of economic calculus in the energy sector; knows the legal, organizational and economic principles of the functioning of energy markets, knows the basic principles of management and running a business | The student knows and understands the basic processes of energy production and use, the principles of operation of modern heating and power systems | | | [SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects | | |
| | [K6_W08] has basic knowledge in the field of intellectual property protection and patent law, knows and understands the basic processes of energy production and use, knows and understands the principles of modern heating and power systems | The student is able to present the principles of operation of energy markets | | | [SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects | | |
| Subject contents | Energy markets - principles, essence, directions of market development Management of energy markets Outlays and costs of energy markets development Energy markets in terms of fuel base and energy demand | | | | | | |
| Prerequisites and co-requisites | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | | | Percentage of the final grade | | |
| | | 60.0% | | | 100.0% | | |

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| Recommended reading | Basic literature | 1. Energy markets edit..Wł.Mielczarski 2. Energy economy edit..W.Kamrat |
| | Supplementary literature | Kamrat W.: Selected problems of decision making modelling in power engineering. SETA, Elsevier, 2021 |
| | eResources addresses | Adresy na platformie eNauczenie: |
| Example issues/ example questions/ tasks being completed | 1. Essence, characteristics of energy markets 2. Directions of development of energy markets 3. Valuation of assets on the energy market | |
| Work placement | Not applicable | |