

Subject card

| Subject name and code | , PG_00053197 | | | | | | | | |
|---|---|---------------------------------------|---|------------|-------------------------------|--|--|-----|--|
| Field of study | Electrical Engineering | | | | | | | | |
| Date of commencement of studies | October 2022 | | Academic year of realisation of subject | | | 2024/2025 | | | |
| Education level | first-cycle studies | | Subject group | | | field o | Obligatory subject group in the field of study | | |
| | | | | | | 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 | 6 | | ECTS credits | | | 3.0 | | | |
| 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 dr hab. inż. Paweł Bućko | | | | | | | | |
| | Teachers | | dr hab. inż. Paweł Bućko | | | | | | |
| | | dr inż. Izabela Prażuch | | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | roject Semi | | SUM | |
| | Number of study hours | 15.0 | 30.0 | 0.0 | 0.0 | | 0.0 | 45 | |
| | E-learning hours included: 0.0 | | | ' | | | | | |
| | Additional information: Lectures issued in stationary. | | | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in classes include plan | | | | Self-study | | SUM | |
| | Number of study hours | 45 | | 3.0 | | 27.0 | | 75 | |
| Subject objectives | The goal of this course is to gain the knowledge on the profitability assessment of energy investments. | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems in a social environment | | | | | [SU5] Assessment of ability to present the results of task | | | |
| | K6_W10 | | calculations in practical | | | [SW3] Assessment of knowledge contained in written work and projects | | | |
| Subject contents | Lecture: Discounting. Time value of money. Basic indicators used in investment and financial analysis. Methods of selecting a variant based on technical and economic calculation. Principles of investment financing and the impact of the financing variant on profitability. Calculation of operating costs. Risk calculation. Engineering management. Cost and economic consequences of engineering decisions. Exercises: Application of discounting in investment profitability calculations. Determination of the freezing factor and averaging of cash flows over time. Calculation of fixed asset depreciation. Preparation of an investment loan repayment schedule. Determination of indicators used in investment analysis. Preparation of a business plan for a selected investment. | | | | | | | | |
| Prerequisites and co-requisites | No requirements | | | | | | | | |
| Assessment methods and criteria | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | | | |
| | Project | | 100.0% | | 50.0% | | | | |
| | Midterm colloquium | | | | 50.0% | | | | |

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| Recommended reading | Basic literature | 1.Behrens, Hawranek: Poradnik przygotowywania przemysłowych studiów feasibility, UNIDO 2.Warnecke H.J., Bullinger H.J., Hichert R., Voegele A.: Rachunek kosztów dla inżynierów. WNT, Warszawa 1993. 3.Siegel J.G., Shim J.K., Hartman S.W.: Przewodnik po finansach. Wydawnictwo Naukowe PWN, Warszawa 1995. 4.Górzyński J.: Audyting energetyczny. Fundacja Poszanowania Energii, Warszawa 2002. 5. Kamrat W.: Metody oceny efektywności inwestowania w elektroenergetyce. Monografia. Politechnika Gdańska 2004. 6. Rogowski W.: Rachunek efektywności inwestycji. Wydawnictwo Nieoczywiste. 2019 | | |
|--|-----------------------------------|--|--|--|
| | Supplementary literature | Energy investment projects available | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | |
| Example issues/ example questions/ tasks being completed | Economic fundamentals of industry | | | |
| | Investments process isues. | | | |
| | Investment evaluation processes | | | |
| Work placement | Not applicable | | | |

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