

Subject card

| Subject name and code | Systems of Geographical Information in Electrical Power Engineering, PG_00038479 | | | | | | | | |
|--|---|----------------------------------|---|-------------------------------------|-------------------------------|--|---------|--------------|--|
| Field of study | Electrical Engineering | 9 | | | | | | | |
| Date of commencement of studies | February 2024 | | Academic year of realisation of subject | | 2024/2025 | | | | |
| Education level | second-cycle studies | | Subject group | | | | | | |
| Mode of study | Full-time studies | | Mode of delivery | | at the university | | | | |
| Year of study | 1 | | Language of instruction | | Polish | | | | |
| Semester of study | 2 | | ECTS credits | | | 1.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | |
| Conducting unit | Department of Electri | ineering -> Fac | al and C | ontrol Engineering | | | | | |
| Name and surname | Subject supervisor | | dr inż. Andrzej Augusiak | | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM | |
| | Number of study hours | 15.0 | 0.0 | 0.0 0.0 | | 15 | | | |
| | E-learning hours included: 0.0 | | | | | | | | |
| Learning activity and number of study hours | Learning activity Participation in classes include plan | | | Participation in consultation hours | | Self-study | | SUM | |
| | Number of study 15 hours | | | 2.0 | | 8.0 | | 25 | |
| Subject objectives | Learning the methods and tools used in geographical information systems in power engineering | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | K7_U11 | | | | | | | | |
| | K7_U09 | | | | | | | | |
| | K7_W12 | | | | | | | | |
| | K7_W12 | | | | | | | | |
| | K7_W08 K7_K03 | | Student can solve a partial | | | [SK1] Assessment of group work | | | |
| | | | problem within the project subgroup and correctly use it to solve the overall task of the group | | | skills | | | |
| | K7_K02 | | The student is able to use GIS information and databases regarding the environmental conditions of a technical project. | | | [SK5] Assessment of ability to solve problems that arise in practice | | | |
| Subject contents | The map - history and its role in socio-economic development of the mankind, analog and digital maps - similarities and differences, GIS - definitions and components, raster and vector maps, objects on maps - graphical and data attributes, methods of storing data in GIS, database systems in GIS, methods of data presentation in GIS, constructing SQL queries and thematic maps, space analyses in GIS, specifics of GIS application in power engineering companies. | | | | | | | | |
| Prerequisites and co-requisites | | | | | | | | | |
| Assessment methods | Subject passing criteria | | Passing threshold | | Percentage of the final grade | | | | |
| and criteria | Rating of final project | ating of final project | | 50.0% | | | 100.0% | | |
| Recommended reading | Basic literature | | Bielecka E.: Systemy Informacji Geograficznej - teoria i zastosowania. Wydawnictwo PJWSTK, Warszawa 2006. Myrda G., Litwin L.: Systemy Informacji Geograficznej. Zarządzanie danymi przestrzennymi w GIS, SIP, SIT, LIS. wydawnictwo Helion, Gliwice 2005. | | | | | | |
| | Supplementary literature | | QGIS system documentation. http://www.qgis.org/pl/docs/index.html | | | | | s/index.html | |
| | eResources addresse | Adresy na platformie eNauczanie: | | | | | | | |
| Example issues/ example questions/ tasks being completed | Concepts and definitions related to GIS The hardware and software of GIS systems Other technical systems working with GIS Spatial Analysis in GIS - be able to give an example Differences between raster and vector-layers in GIS Examples of graphical attributes and database layers vector Inquiries (query) SQL - be able to give an example Types of GIS software Examples of GIS software for the power sector. | | | | | | | | |

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| Work placement | Not applicable |
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