

Subject card

| Subject name and code | Environmental Management Systems - Team Project, PG_00068035 | | | | | | | | |
|---|---|---------|--|------------|----------------|--|---------|-----|--|
| Field of study | | | | | | | | | |
| Date of commencement of studies | October 2025 | | Academic year of realisation of subject | | | 2026/2027 | | | |
| Education level | first-cycle studies | | Subject group | | | 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 | 2 | | Language of instruction | | | Polish | | | |
| Semester of study | 4 | | ECTS credits | | | 6.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | |
| Conducting unit | Department Of Management Engineering And Quality -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej | | | | | | | | |
| Name and surname | Subject supervisor | | | | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Projec | t . | Seminar | SUM | |
| of instruction | Number of study hours | 30.0 | 0.0 | 25.0 | 20.0 | | 0.0 | 75 | |
| | E-learning hours included: 0.0 | | | | | | | | |
| Learning activity and number of study hours | Learning activity Participation in classes include plan | | | | Self-study SUM | | | | |
| | Number of study hours | 75 | | 5.0 | | 70.0 | | 150 | |
| Subject objectives | Designs management systems using applicable legal regulations, taking into account the impact of the company's operations on the broadly understood environment | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K6_U03] collaborates with others in solving interdisciplinary problems. | | designs and implements pro- ecological management systems by performing tasks as a member or team leader | | | [SU3] Assessment of ability to use knowledge gained from the subject | | | |
| | [K6_W01] understands and comprehends the conditions of processes occurring in the analyzed systems at an advanced level and selects appropriate methods for their solution, taking into account the complex relationships between the analyzed phenomena. | | applies the principles of sustainable development in the design of enterprise management systems | | | [SW1] Assessment of factual knowledge | | | |
| | [K6_K02] is prepared to make competent and ethical decisions to create and maintain economic, social, and environmental values, demonstrating entrepreneurial actions. | | is able to co-develop project solutions aimed at balancing business and environmental goals, making decisions with consideration of their long-term impact on the organization and its surroundings. | | | [SK5] Assessment of ability to solve problems that arise in practice | | | |

Data wygenerowania: 08.05.2025 11:31 Strona 1 z 2

| Subject contents | ECTURE | | | | | | |
|--|---|--|-------------------------------|--|--|--|--|
| Subject contents | LECTURE Basic concepts and terminology in the field of management and environmental protection. Origins and foundations of sustainable economic development UN Sustainable Development Goals (SDGs). Environmental management models, elements, relationships History and review of the concept of a systemic approach to environmental management Environmental management system compliant with PN-EN ISO 14001. Genesis. Structure of type HLS of ISO Type A standards The context of the organization. Leadership Planning. Support Operations Performance evaluation Improvement Implementation of an environmental management system according to ISO 14001 EMS audits. EMS Certification Other standards for EMS in the ISO 14000 family. Management system compliant with the EMAS Regulation Energy management system compliant with EN ISO 50001 Benefits of EMS. Life Cycle Assessment (LCA), creation of an eco-balance, factors and sources of information obtained EMS in integrated management systems PROJECT Sustainable development in the context of pro-ecological activities of a selected company. Identification of the achievements of selected organizations in areas corresponding to the pro-ecological objectives of the UN regarding the UA. Use of ISO 26000 Design of EMS components according to ISO 14001 for the selected organization for the nst elements of the EMS: Environmental aspects; Risk assessment. Significant environmental aspects; Objectives and tasks in the field of the Environment; Operational management and performance evaluation; Improvement in the context of the World Improvement Environment Planning and conducting an internal audit of the EMS for a selected organization and designing | | | | | | |
| | | | | | | | |
| | improvement activities (follow-ups): development of an audit plan; preparation of a checklist for relevent to the second | | | | | | |
| Prerequisites and co-requisites | | | | | | | |
| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | | |
| and criteria | Project | 60.0% | 50.0% | | | | |
| | Exam | 60.0% | 50.0% | | | | |
| Recommended reading | mended reading Basic literature Grudowski P., Hamrol A., Zymonik Z. bezpieczeństwem, PWE Warszawa 2 Grudowski P., Wiśniewska M. Z., Ku bezpieczeństwa, CeDeWu, Warszaw Kowal E., Kucińska-Landwójtowicz A środowiskowe, PWE, Warszawa, 201 | | | | | | |
| | Supplementary literature | Grudowski P., Jakość, środowisko i BHP w systemach zarządzania, OPO-AJG, 2004 Grudowski P., Pochyluk R., Szymański J., Zasady wdrażania systemu zarządzania środowiskowego zgodnego z wymaganiami normy ISO 14001, Eko-Konsult, 1999 | | | | | |
| | eResources addresses Adresy na platformie eNauczanie: | | | | | | |
| Example issues/ example questions/ tasks being completed | | | | | | | |
| Work placement | Not applicable | | | | | | |

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Data wygenerowania: 08.05.2025 11:31 Strona 2 z 2