

Subject card

| Subject name and code | , PG_00061833 | | | | | | | | |
|---|--|--|---|-------------------------------------|---------|--|---------|-----|--|
| Field of study | Management and Production Engineering | | | | | | | | |
| Date of commencement of studies | February 2023 | | Academic year of realisation of subject | | | 2023/2024 | | | |
| Education level | second-cycle studies | | Subject group | | | | | | |
| Mode of study | Full-time studies | | Mode of delivery | | | at the university | | | |
| Year of study | 2 | | Language of instruction | | | Polish | | | |
| Semester of study | 3 | | ECTS credits | | | 4.0 | | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | | |
| Conducting unit | Zakład Materiałoznawstwa I Technologii Materiałowych -> Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology | | | | | | als | | |
| Name and surname | Subject supervisor | | prof. dr hab. inż. Dionizy Czekaj | | | | | | |
| of lecturer (lecturers) | Teachers | | | | | | | | |
| Lesson types and methods | Lesson type | Lecture | Tutorial | Laboratory | Project | | Seminar | SUM | |
| of instruction | Number of study hours | 30.0 | 0.0 | 15.0 | 0.0 | | 0.0 | 45 | |
| | E-learning hours inclu | | | I | | | | 1 | |
| Learning activity and number of study hours | Learning activity | Participation in classes includ plan | | Participation in consultation hours | | Self-study | | SUM | |
| | Number of study hours | 45 | | 0.0 | | 0.0 | | 45 | |
| Subject objectives | To introduce students with the mathematical foundations and selected applications of game theory, especially for solving conflict situations or cooperation. | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K7_W01] knows and understands to a greater extent selected issues in the field of management and quality sciences and mechanical engineering, their location in the field of social sciences and engineering and technical sciences, as well as relationships with related disciplines, and sees the possibility of applying the knowledge in practice. | | The student knows and understands selected issues in the field of management and quality science as well as mechanical engineering. | | | [SW1] Assessment of factual knowledge | | | |
| | [K7_K02] is aware of the importance and understanding of non-technical aspects and effects of engineering activities, including its impact on the environment, and the related responsibility for decisions made demonstrates knowledge of actions to reduce risk and anticipate the social impact of engineering and manufacturing activities | | The student is aware of the non-technical aspects and effects of engineering activities. | | | [SK2] Assessment of progress of work | | | |
| | [K7_K01] is aware of the need to expand knowledge and verify the methods of solving problems by consulting experts | | The student understands the need to expand their knowledge. | | | [SK2] Assessment of progress of work | | | |
| | [K7_U01] can obtain information from literature, databases and others sources, also in English or another foreign language recognized as the language of international communication in a given engineering discipline; is able to integrate the obtained information, interpret it, as well as draw conclusions and formulate and justify opinions. | | The student is able to obtain information from literature, databases and other sources, also in English. | | | [SU4] Assessment of ability to use methods and tools | | | |

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| Subject contents | Introduction. Game examples. Nominal form games and dominated strategies. Nash equilibrium. Equilibrium in mixed strategies. Extensive character of the game. Repeated games. Evolution Games. Cooperative games. Elements of game learning theory. | | | | | |
|--|---|--|---|--|--|--|
| Prerequisites and co-requisites | | | | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade | | | |
| | Laborartory classes | 100.0% | 50.0% | | | |
| | Final test | 51.0% | 50.0% | | | |
| Recommended reading | Basic literature Supplementary literature | M. Malawski, A. Wieczorek, H. kooperacja. Teoria gier w ekon Wydawnictwo Naukowe PWN, M. Ramsza. Elementy modelor teorii uczenia się w grach popu SGH Warszawa, 2010. R. Laraki, J. Renault, S.Sorin, matematyczne, Wydawnictwo N P.D. Straffin, Teoria gier. Wars Scholar, 2004. | omii i naukach społecznych. 1997. wania ekonomicznego opartego na lacyjnych. Oficyna Wydawnicza Teoria Gier. Podstway | | | |
| | | K. Binmore, Teoria gier, Wydawnictwo Uniwersytetu Łódzkiego P. Kilber, Wprowadzenie do teorii gier, Uniwersytet Ekonomiczny w Poznaniu | | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | | |
| Example issues/ example questions/ tasks being completed | Classical economic approaches in game theory Application of game theory in management Player added value | | | | | |
| Work placement | Not applicable | | | | | |

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