



Subject card

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| Subject name and code | Production Management, PG_00040525 | | | | | | |
| Field of study | Engineering Management | | | | | | |
| Date of commencement of studies | October 2022 | Academic year of realisation of subject | | | 2023/2024 | | |
| 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 | Part-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 | | | exam | | |
| Conducting unit | Department of Quality Management and Commodity Science -> Faculty of Management and Economics | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | Magdalena Laskowska | | | | |
| | Teachers | | Jan Szeffler Magdalena Laskowska | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 16.0 | 0.0 | 0.0 | 8.0 | 0.0 | 24 |
| | 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 | 24 | | 7.0 | | 69.0 | 100 |
| Subject objectives | The goal of the course is obtain by the students knowledge about contemporary operation systems of production and services. It gives the students skills in creation operation strategy and design operation systems. | | | | | | |

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| Learning outcomes | Course outcome | Subject outcome | Method of verification |
| | [K6_W12] has a basic knowledge of production management and occupational safety and ergonomics management, as well as information technologies necessary for engineering management | Knows the Goals and Measures of Operations. Productivity. Operation Processes. Process Layout Planning. Process Reengineering and Improvement. Process Management. | [SW1] Assessment of factual knowledge |
| | [K6_W02] has a basic knowledge of the different types of departments in the organisation, with particular emphasis on structures of an engineering nature | Student defines and explains contemporary operation systems of production and services. Creates operation strategy. Applies fundamental methods and tools of design operation systems.. | [SW1] Assessment of factual knowledge |
| | [K6_U11] can plan and control production and production quality, including the identification and formulation of specifications for simple engineering tasks | | [SU1] Assessment of task fulfilment |
| | [K6_K02] identifies problems related to undertaking various tasks, including engineering in the changing conditions of the organisation's functioning; takes into account the ethical aspect related to the implementation of the organisation's tasks | | [SK1] Assessment of group work skills |
| [K6_W08] has a basic knowledge of the changes taking place in the organisation and its environment, taking into account environmental problems | | [SW1] Assessment of factual knowledge | |
| Subject contents | LECTURES: 1. Introduction. Historical view. 2. Ability and production program. 3. Forms of production organization. 4. BOM and MRP. 5. System and production process. ABC analysis. 6. Supplies management. Production control and planning. 7. Industry 4.0. 8. Ecological aspects and industry 4.0 9. MRPII and ERP systems | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Written exam | 60.0% | 50.0% |
| | Project and colloquium | 60.0% | 50.0% |
| Recommended reading | Basic literature | <ol style="list-style-type: none"> Durlik I., Inżynieria zarządzania : strategia i projektowanie systemów produkcyjnych, Cz.1 i 2, Agencja Wyd."Placet", W-wa 2011. Liwowski B., Kozłowski R., Podstawowe zagadnienia zarządzania produkcją, Oficyna Ekonomiczna. Kraków 2007. Pająk E., Zarządzanie produkcją. Produkt, technologia, organizacja, Warszawa, PWN, 2014. Sarjusz - Wolski Z., Sterowanie zapasami w przedsiębiorstwie, PWE, W-wa 2000. Olszak C., Sroka H. (red.): Zintegrowane systemy informatyczne w zarządzaniu. Katowice: Wydawnictwo Akademii Ekonomicznej, 2001. Syme D., Granicz A., Cystemino A., F# 4.0 dla zaawansowanych, Wyd. 4, Helion Apress, W-wa 2017. | |
| | Supplementary literature | <ol style="list-style-type: none"> Jasiński Z.: Podstawy zarządzania operacyjnego, Oficyna Ekonomiczna, Kraków, 2005 Muhlemann A.P., Oakland J.S., Lockyer K.G.: Zarządzanie. Produkcja i usługi. PWN Warszawa 1995 Krajewski L.J., Ritzman L.P.: Operations Management: Strategy and Analysis. 4th Edition, Addison-Wesley Publishing Company, 1996 | |
| | eResources addresses | Adresy na platformie eNauczenie: Zarządzanie produkcją 2023-2024 - Moodle ID: 34452 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=34452 | |

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| Example issues/ example questions/ tasks being completed | 1. Sketch and briefly characterize the types of machines and production facilities known to you. Which of them and why did you use in your project? |
| Work placement | Not applicable |

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