

Subject card

| Subject name and code | Modern Concepts of Production Management, PG_00068461 | | | | | | | | |
|---|--|---------|---|------------|------------|---|---------|-----|--|
| Field of study | Engineering Management | | | | | | | | |
| Date of commencement of studies | October 2025 | | Academic year of realisation of subject | | | 2027/2028 | | | |
| Education level | first-cycle studies | | Subject group | | | Optional subject group 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 | 3 | | Language of instruction | | | Polish | | | |
| Semester of study | 6 | | ECTS credits | | | 7.0 | | | |
| 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 | | | | _ | | , | 1 | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Projec | t | Seminar | SUM | |
| | Number of study hours | 8.0 | 32.0 | 0.0 | 0.0 | | 0.0 | 40 | |
| | 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 | 40 | 6.0 | | | 129.0 | | 175 | |
| Subject objectives | Formulates and implements creative production management concepts using modern advanced methods | | | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | | | |
| | [K6_U05] designs innovative solutions for complex management processes by utilizing appropriate methods and techniques. | | is able to develop improvements in production process management by selecting approaches and tools suited to the nature of the problem and the operational context of the enterprise | | | [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools | | | |
| | [K6_W07] knows and understands advanced methods for analyzing the management process in technical, legal, economic, financial, and social contexts. | | is familiar with approaches used in modern production management and understands how to consider various organizational and external factors when evaluating the effectiveness of operational solutions | | | [SW3] Assessment of knowledge contained in written work and projects | | | |
| | [K6_K03] is prepared to critically assess the knowledge they possess, which is necessary for solving cognitive and practical problems, and to supplement any gaps with opinions from external experts. | | is able to reflect on their approach to production management challenges, identify areas requiring deeper insight, and seek expert input when the complexity of the issue demands it. | | | [SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice | | | |

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| Subject contents | Lean manufacturing Basic concepts related to Lean Manufacturing Problem solving 5S - engaging in the perception and elimination of waste Gemba Walk - identifying problems in processes Standardization of work Milk run - organization of supplying stations with materials Poka-yoke - right the first time SMED - shortening changeover times Kamishibai - layered standards auditing One point lesson - communication of changes in processes Quick Response manufacturing VUCA world Quick Response Manufacturing pillars White and gray times Construction of MCT maps Creating cells based on FTMS Quick Response Office Center Quick Response Cell | | | | | | |
|--|--|---|-------------------------------|--|--|--|--|
| Prerequisites and co-requisites | | | | | | | |
| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | | |
| and criteria | Lecture test | 60.0% | 40.0% | | | | |
| | Project | 60.0% | 60.0% | | | | |
| Recommended reading | Basic literature | Czerska J, Podstawowe narzędzia Lean Manufacturing, LeanQ Team, 2014 Czerska J, Doskonalenie strumienia wartości, wyd 2, LeanQ Team, 2014 Czerska J (red.) Poradnik Młodego Lean Lidera, Lean Education, 2019 Rajan Suri Zyskaj na Czasie, Wyd MT Biznes 2017 Knosala R., Inżynieria Produkcji, Kompendium Wiedzy, Wyd. PWE Warszawa 2017 Szatkowski K., Nowoczesne zarządzanie produkcją, Wyd. PWN Warszawa 2014 | | | | | |
| | Supplementary literature | Pająk E., Zarządzanie produkcją, Wyd PWN Warszawa 2021 Rajan Suri Przewodnik po MCT, Wyd 4Results, QRM Institute Polska | | | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | | | |
| Example issues/ example questions/ tasks being completed | Discuss the construction of the MCT map Discuss the 4 pillars of QRM Build a QRoc based on selected FTMS Use the Lean Management tool in relation to the given problem in the form of a case study | | | | | | |
| Work placement | Not applicable | | | | | | |

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