



Subject card

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|---|--|--|--|-------------------------------------|--|------------|-----|
| Subject name and code | Production Quality Management, PG_00044443 | | | | | | |
| Field of study | Engineering Management | | | | | | |
| Date of commencement of studies | October 2021 | | 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 | 3 | | Language of instruction | | Polish | | |
| Semester of study | 6 | | ECTS credits | | 4.0 | | |
| Learning profile | general academic profile | | Assessment form | | exam | | |
| Conducting unit | Faculty of Management and Economics | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr hab. inż. Piotr Grudowski | | | | |
| | Teachers | | dr hab. inż. Piotr Grudowski | | | | |
| | | | Martyna Kostrzewa | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 8.0 | 16.0 | 0.0 | 0.0 | 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 | | 6.0 | | 70.0 | 100 |
| Subject objectives | Understanding of quality management basis, quality measurement and improvement tools, as well as basis of normalization and SPC | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K6_W07] knows the basic conditions concerning norms and standards covering particular areas of the organization's functioning, including in particular those concerning technical resources and processes | | Student knows basic aspects of the norm and quality standards. | | [SW3] Assessment of knowledge contained in written work and projects | | |
| | [K6_U11] can plan and control production and production quality, including the identification and formulation of specifications for simple engineering tasks | | The student is able to undertake planning and quality improvement activities in the enterprise | | [SU4] Assessment of ability to use methods and tools | | |
| | [K6_U08] analyses engineering and managerial solutions in decision-making processes, taking into account pro-quality and pro-environmental aspects, as well as safety of work processes | | The student analyzes engineering solutions in the field of quality management | | [SU4] Assessment of ability to use methods and tools | | |
| | [K6_K01] can define priorities related to the implementation of team tasks as well as individual tasks | | The student prioritizes tasks and evaluation criteria used in quality management | | [SK5] Assessment of ability to solve problems that arise in practice | | |

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| Subject contents | LECTURES Quality definitions; Quality management development; Products and services quality; Quality determinants and its importance level; CSI and ESI index; QFD method and house of quality; Clasical seven tools of quality; New seven tools of quality; ISO 9000 as the normalization example; Environment management system ISO 14000; ISO 18000; HACCP and ISO 22000; Quality management conceptions of E. Deming, J. Juran and Ph. Crosby; Excellence Models; Costs of Quality. TUTORIALS Products and services characteristics identification; Determinants examples of the products and services; Counting of the customer and employee satisfaction level with CSI and ESI index using; House of the quality building; Using of the cause and effects tools; Using of the seven classic quality tools; Using of the seven new quality tools; Group methods of the problems solving; Creating of the quality politics; Quality documents in normalization; Environment politics; Statistical methods of quality; Control charts; Counting of the Cp and Cpk indexes; Deming, Crosby and Juran quality thesis; Excellence Models Criteria; Counting of the quality costs. | | |
| Prerequisites and co-requisites | No requirements | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Midterm colloquium | 60.0% | 20.0% |
| | Practical exercise | 60.0% | 30.0% |
| | Written exam | 60.0% | 50.0% |
| Recommended reading | Basic literature | Dahlgaard J., Kristensen K., Kanji G., Podstawy zarządzania jakością, Wyd. PWN, Warszawa 2002. Urbaniak M., Zarządzanie jakością. Teoria i praktyka, Wyd. Difin, Warszawa 2005 Lock D., Podręcznik zarządzania jakością, Wyd. PWN, Warszawa 2002 | |
| | Supplementary literature | Hamrol A., Zarządzanie jakością z przykładami, Wyd PWN, Warszawa 2005 | |
| | eResources addresses | Adresy na platformie eNauczanie: ZARZĄDZANIE JAKOŚCIĄ PRODUKCJI (PG_00044443) - Moodle ID: 38302 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=38302 | |
| Example issues/ example questions/ tasks being completed | 1 - Describe "House of quality" 2 - Describe control card - type X 3 - Describe control card - type R 4 - Calculate Cp and Cpk index 5 - Describe Kaizen conception | | |
| Work placement | Not applicable | | |

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