



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Quality Management

Course

Field of study

Safety Engineering

Area of study (specialization)

Ergonomics and work safety

Level of study

Second-cycle studies

Form of study

part-time

Year/Semester

1/2

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

10

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

Ph.D., D.Sc., Eng. Agnieszka Misztal,
University Professor

Mail to: agnieszka.misztal@put.poznan.pl

Phone: 61 6653437

Faculty of Engineering Management

ul. Rychlewskiego 2, 60-965 Poznań

Responsible for the course/lecturer:

Ph.D., D.Sc., Eng. Małgorzata Jasiulewicz-
Kaczmarek,

Mail to: [malgorzata.masiulewicz-](mailto:malgorzata.masiulewicz-kaczmarek@put.poznan.pl)

kaczmarek@put.poznan.pl

Phone: 61 66533365

Faculty of Engineering Management

ul. Rychlewskiego 2, 60-965 Poznań

Prerequisites



Student should have a basic knowledge of quality engineering, is able to interpret concept of quality, knows how to apply basic quality methods and techniques, has ability to work in a group.

Course objective

Providing students with knowledge about precursors of quality management, system and process approach, modern principles of quality management and conditions related to them; teaching how to solve quality management problems and creating pro-quality attitudes.

Course-related learning outcomes

Knowledge

1. knows issues in field of designing quality management system processes [P7S_WG_07]
2. knows issues of management functions in area of quality [P7S_WG_08]
3. knows basic pro-quality principles used in solving simple engineering tasks in area of ergonomics and work safety using information technologies, information protection and computer support [P7S_WK_03]

Skills

1. is able to properly select sources and information derived from them in relation to quality-oriented principles, and on the basis of this makes an assessment, critical analysis and synthesis, as well as is able to formulate conclusions and comprehensively justify the opinion [PS7_OW_01]
2. is able to apply various pro-quality techniques to communicate in a professional environment and in other environments [PS7_OW_02]
3. can see the analogy of pro-quality systems and formulate engineering and non-technical as well as socio-technical, organizational and economic aspects in engineering tasks [PS7_OW_03]
4. is able to use research, analytical, simulation and experimental methods to formulate and solve engineering tasks using pro-quality methods and tools [PS7_OW_04]
5. is able to plan and carry out measurements and computer simulations of the quality system, interpret the results obtained and draw conclusions [PS7_OU_01]

Social competences

1. is aware of perception cause-and-effect relationships in achieving set pro-quality goals and ranking the significance of alternative or competitive tasks [PS7_KK_01]
2. is aware of recognition of importance of pro-quality knowledge in solving problems in the field of security engineering and continuous improvement [PS7_KK_02]
3. is aware of the responsibility for own work and readiness to comply with the rules of teamwork and taking responsibility for jointly implemented tasks [PS7_KR_02]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Formative assessment: current assessment of project progress, partial points,



Summative rating: grade for project and its presentation.

Programme content

Managing process environment in implementation. Machine safety map.

Teaching methods

Didactics method: project based on a case study.

Bibliography

Basic

1. Jasiulewicz-Kaczmarek M., Misztal A. (2014), Projektowanie i integracja systemów zarządzania jakością, Wydawnictwo Politechniki Poznańskiej, Poznań.
2. Hamrol A. (2008), Zarządzanie jakością z przykładami, PWN, Warszawa.
3. Gołaś H., Mazur A. (2012), Zarządzanie jakością, Wydawnictwo Politechniki Poznańskiej, Poznań.
4. Szczepańska K. (2018), Zasady zarządzania jakością, Oficyna Wydawnicza Politechniki Warszawskiej, Warszawa.
5. Dobrowolska A. (2017), Podejście procesowe w organizacjach zarządzanych przez jakość, Wydawnictwo Poltext, Warszawa.

Additional

1. Gruszka J., Misztal A. (2017), Zarządzanie jakością w motoryzacji wg standardu IATF 16949:2016 w ujęciu procesowym, Problemy Jakości 11, 4-10.
2. Gołaś H., Mazur A., Misztal A. (2016), Model doskonalenia przedsiębiorstwa przez zarządzanie ryzykiem zgodnie z ISO 9001:2015, Problemy Jakości, 10, 9-14.
3. Jasiulewicz-Kaczmarek M., Drożyner P. (2010), Excellence models in maintenance , [w:] Fertsch M. (red.), Innovative and intelligent manufacturing systems, (s. 335-352), Wydawnictwo Politechniki Poznańskiej, Poznań.

Breakdown of average student's workload

| | Hours | ECTS |
|--|-------|------|
| Total workload | 50 | 2,0 |
| Classes requiring direct contact with the teacher | 10 | 0,5 |
| Student's own work (literature studies, data collection, projects preparation, preparation for presentation of the project) ¹ | 40 | 1,5 |

¹ delete or add other activities as appropriate