



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Standardised production systems [S1ZiIP2>ZSZ]

Course

Field of study

Management and Production Engineering

Year/Semester

4/7

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

full-time

Requirements

elective

Number of hours

Lecture

15

Laboratory classes

0

Other

0

Tutorials

15

Projects/seminars

0

Number of credit points

2,00

Coordinators

dr inż. Łukasz Grudzień

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Lecturers

Prerequisites

The student has knowledge of the attitudes of business management, understands the need to learn and acquire new knowledge; recognizing the possibility of continuous improvement in various areas of life, including the activities of organizations, with particular emphasis on manufacturing enterprises. General knowledge of the requirements of ISO 9001. The ability to translate the requirements of the standards into ways to meet them. Ability to interpret the requirements of the standards. Ability to work in a team. Awareness of responsibility for the solutions adopted and the consequences of the decisions made.

Course objective

To familiarize students with theoretical and practical issues related to the functioning of systems systems management quality . the role of the quality management system in enterprise management. read the ISO 9001 standard and guidelines related to auditing QMS.

Course-related learning outcomes

Knowledge:

1. knows the principles of management systems documentation design
2. has knowledge of the requirements for the functioning of the QMS

3. has a basic knowledge of the systemic elements of maintaining management systems (internal audits, management reviews)

Skills:

1. be able to explain the requirements of ISO 9001
2. can independently develop a draft version of the documentation in the organization
3. can program internal audits
- 5 the student is able to recognize threats (traditional approach) and seize opportunities in the functioning of the organization.

Social competences:

1. is able to independently develop knowledge in the subject area
- 2 the student is open to new ideas and concepts, making changes and striving for improvement.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Credit on the basis of a colloquium consisting of 10+15 test questions conducted at the end of the semester. Assignment of grades to percentage ranges of results: <90-100> very good; <80-90) good plus; <70-80) good; <60-70) satisfactory plus; <50-60) satisfactory; <0-50) unsatisfactory.

Programme content

Subject terminology: quality management systems, requirements, guidelines process, procedure, risk, internal audit

Analysis of ISO 9001 requirements. introduction to QMS design. Discussion of basic system tools that support the maintenance of the QMS - management reviews, internal audits, risks, corrective actions. Internal audit guidelines (ISO 19011) - planning, conducting, documenting, auditor qualifications.

Course topics

1. Introduction to quality management systems
- 2 Risks in the organisation, context and policy
3. Operational activities
- 4 Follow-up and improvement
5. Quality management system audit, management review

Teaching methods

Lecture: multimedia presentation illustrated with examples given on the blackboard

Bibliography

Basic:

1. Hamrol A., Quality management with examples, PWN Warsaw, 2012
2. PN-EN ISO 9001:2015 Quality Management Systems. Requirements
- 3 PN-EN ISO 9004:2015 Quality Management Systems. Guidelines for operation
- 4 PN-EN ISO 9000:2015 Quality Management Systems. Attitudes and terminology

Additional:

Schlickman, ISO 9001:200 Quality Management System Design, Artech House, Boston-London 2003

Breakdown of average student's workload

| | Hours | ECTS |
|---|-------|------|
| Total workload | 50 | 2,00 |
| Classes requiring direct contact with the teacher | 30 | 1,00 |
| Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation) | 20 | 1,00 |