



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Quality Management

		Course
Field of study		Year/Semester
Mechanical and Automotive Engineering		2/2
Area of study (specialization)		Profile of study
all specializations		general academic
Level of study		Course offered in
Second-cycle studies		Polish
Form of study		Requirements
full-time		compulsory

			Number of
hours			
Lecture	Laboratory classes		Other (e.g. online)
15	0		0
Tutorials	Projects/seminars		
0	0		
Number of credit points			
1			

		Lecturers
Responsible for the course/lecturer:		Responsible for the course/lecturer:
Prof. Zbigniew Kłos, Ph.D.(Eng.), D.Sc.		
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Faculty of Civil and Transport Engineering		
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Prerequisites
KNOWLEDGE: Student has fundamental knowledge about management of organizations and fundamental knowledge on innovation development in the field of construction and exploitation of transport means
SKILLS: Student possesses ability of perceiving and associating of phenomena occurring in management of market oriented organizations in the field of construction and exploitation of transport means and is able to interpret them, draw practical conclusions and to formulate opinions



SOCIAL COMPETENCES: Student has the awareness of importance and understands the effects of undertaking innovative, market oriented, activities, concerning the construction and exploitation of transport means

Course objective

Transmitting to the students the knowledge of fundamental issues connected with understanding the role of quality category in modern economy and acquainting them with basic tools of quality engineering implementation in organizations with the special emphasis on of construction and exploitation of transport means

Course-related learning outcomes

Knowledge

Has general knowledge of standardization, EU recommendations and directives, national, industry and international standards systems, and industrial standards.

Has a basic knowledge of quality management systems.

Has extended knowledge of the standards for working machines in the field of methods of calculating and testing machines, safety, including road safety, environmental protection as well as mechanical and electrical interface.

Skills

He can advise on the selection of machines for the technological line as part of the specialization.

Can communicate on specialist topics with a diverse audience.

He is able to independently plan and implement his own learning throughout life and direct others in this regard.

Social competences

It is ready to initiate actions for the public interest.

Is willing to think and act in an entrepreneurial manner.

Is ready to fulfill professional roles responsibly, taking into account changing social needs, including:

- developing the professional achievements,
- maintaining the ethos of the profession,
- observing and developing the rules of professional ethics and acting towards the observance of these rules.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Control test

Programme content



Definition of quality. Changes of quality. Shaping of quality. Assurance and management of quality: standard, organizational, cultural approaches. Total Quality Management. Specificity of Japanese and American approach towards quality management. ISO 9000 standards. Quality assurance and management systems. Introduction to quality assurance and management systems documentation. Methods of technical objects and transport means quality evaluation. Introduction to quality costs. Quality of services

Teaching methods

Lecture with multi-media presentation

Bibliography

Basic

1. Hamrol A., Mantura W., Zarządzanie jakością, WN PWN, Warszawa 2009
2. Kolman R., Kwalitologia. Wyd. Placet, Warszawa 2009
3. Szczepańska K., Koszty jakości dla inżynierów. Wyd. Placet, Warszawa 2009

Additional

1. Urbaniak M., Zarządzanie jakością, środowiskiem oraz bezpieczeństwem w praktyce gospodarczej. Wyd. Difin, Warszawa 2007
2. Frąs J., Kompleksowe zarządzanie jakością w logistyce. Wyd. ITE w Radomiu, 2013
3. Kłos Zb., Elementy inżynierii jakości i ekologii maszyn. Wydawnictwo Politechniki Poznańskiej, Poznań 1998

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,0
Classes requiring direct contact with the teacher	15	0,5
Student's own work (literature studies, preparation for test) ¹	10	0,5

¹ delete or add other activities as appropriate