COURSE DESCRIPTION CARD - SYLLABUS

Course name

Quality Management

Course

Field of study

Construction and Exploitation of Means of Transport

Year/Semester

1/2

Area of study (specialization)

all specializations

Profile of study

general academic

Level of study

Second-cycle studies

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

Number of credit points

1

Lecturers

Responsible for the course/lecturer:

Prof. Zbigniew Kłos, Ph.D.(Eng.), D.Sc.

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Faculty of Civil and Transport Engineering

Ul. Piotrowo 3, 60-965 Poznań

tel.: 61 665 2231

Responsible for the course/lecturer:

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 in the field of standardization, recommendations and EU directives, international, national and industry standards in the area of quality, specially including the construction and exploitation of transport means problems

Has a basic knowledge of quality management system

Skills

Is able to prepare a scientific paper on main problems of solutions in construction and exploitation of transport means, in a foreign language, connected with quality issues, based on literature and other sources of information, including online sources and submit an oral presentation in the field of construction and exploitation of transport means

Is able to advise on the selection of vehicle, within the given equipment group, using quality valuation methods

Social competences

Is aware of and understands the importance and impact of non-technical – quality oriented – aspects of construction and exploitation of transport means

Is aware of social role of mechanical engineer, understands the need for and is able to deliver opinions and knowledge in the field of fundamental quality issues

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. Fraś 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