COURSE DESCRIPTION CARD - SYLLABUS

Course name

Commodity science (Quality science)

Course

Field of study

Logistics

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

2/4

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

30

Laboratory classes

Other (e.g. online)

Tutorials

30

Projects/seminars

Number of credit points

4

Lecturers

Responsible for the course/lecturer:

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Faculty of Engineering Management

2 Jacka Rychlewskiego Street

60-965 Poznań

Responsible for the course/lecturer:

Prerequisites

The student starting this course should have a basic knowledge of chemistry, physics and mathematics after high school basic course. In addition, participants should also understand the relationships between different areas of life sciences and show readiness to deepen their knowledge.

Course objective

The main aim of the course is to present the place of commodity(quality) science among life and economic sciences. The additional goal concerns development of understanding of the importance of logistics in quality assurance of products.

Course-related learning outcomes

Knowledge

Has knowledge that allows classification of products and their know their quality criteria. [P6S_WG_03]

Understands the basic rules of material engineering affecting the quality of goods. [P6S_WG_02]

Skills

Can present any group of products, based on data obtained from manufacturers and open access databases. [P6S_UU_01]

Knows how to use the tools for quality assurance to indicate the basic areas that require improvement in regards to quality improvement of products throughout the logistics chain. [P6S_UO_02]

Social competences

Awareness of the need to constantly update the knowledge in the field of life and economic sciences, and the ability to transfer this knowledge in the field of commodity science. [P6S_KO_02]

Willingness to solve, in work group, projects related to the quality design of products. [P6S_KR_02]

Uses quality management methods and techniques as well as laboratory tests to plan and manage logistics processes. [P6S_KK_02]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Knowledge acquired as part of the lecture is verified by two 30-minute colloquia carried out during the 7th and 14th lectures. The colloquia consist of 10 multiple-choice test questions that are scored equally. The passing threshold is 50%. Topics are made available to students on the e-Learning platform and during the lectures.

Verification of the learning outcomes as part of tutorials is based on reports submitted upon completed tasks, which are performed by participants on a regular basis. The passing threshold is 50%.

Programme content

Lectures: commodity science as a discipline of science, classification of goods, conditions influencing quality of goods, research and assessment of the quality of goods, quality design of food products, quality design of industrial products, packaging quality, packaging functions, product ecology.

Tutorials: quality design of food products, product marketing, quality management techniques, food safety, packaging quality, labeling of goods.

Teaching methods

Lectures: multimedia presentation and discussion. (informative lecture with conversational elements)

Tutorials: multimedia presentation, case study, tasks given by the teacher and discussion. (workshop method)

Bibliography

Basic

Towaroznawstwo w zarządzaniu procesami logistycznymi, Tomasz Jałowiec, Wyższa Szkoła Oficerska Wojsk Lądowych im. Generała Tadeusza Kościuszki, 2015.

Towaroznawstwo dla logistyki, Tomasz Jałowiec, Difin, Warszawa 2011.

Metody i techniki zarządzania jakością : kompendium wiedzy, Jacek Łuczak i Alina Matuszak-Flejszman, Quality Progress, Poznań 2007.

Additional

Monographs published in the series “Current Trends In Commodity Science” Publisher by Faculty of Commodity Science of Poznań University of Economics and Business (open access).

Polish Journal of Commodity Science (open access).

Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	60	2,5
Student's own work (literature studies, preparation for classes, preparation of reports of compleated tasks [1]	40	1,5

[1] delete or add other activities as appropriate