GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Quality Management and Building Chemistry Products, PG_00018825		
Field of study	Chemistry in Construction Engineering		
Date of commencement of studies	October 2020	Academic year of realisation of subject	2021/2022
Education level	first-cycle studies	Subject group	Obligatory subject group in the field of study Subject group related to scientific research in the field of study
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Process Engineering and Chemical Technology -> Faculty of Chemistry		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Anna Zielińska-Jurek	
	Teachers	dr hab. inż. Anna Zielińska-Jurek	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	0.0	0.0	30.0	30

E-learning hours included: 0.0

Adresy na platformie eNauczanie:

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	30	4.0	16.0	50

Subject objectives

Gaining knowledge regarding management systems, the quality management (TQM), methods, tools, and instruments of quality management. Basic knowledge of ISO 9001, 14001, 18001. Quality audits, environmental audits, quality costs

Learning outcomes

Course outcome	Subject outcome	Method of verification
K6_U04	student is able to describe the existing technical solutions, apparatus, processes in the field of construction chemistry. Can prepare an environmental impact assessment of the existing technology.	
K6_W11	student is able to: 1. prepare an audit 2. be fluent in ISO 9001 3. discuss the REACH system principles 4. discuss the principles, methods and tools of quality management	
		[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information
		[SU3] Assessment of ability to use knowledge gained from the subject
		[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information
	Student is able to: 1. point and discuss basic ideas of quality management 2. define, evaluate and solve simple problems 3. apply rules of production management and total quality management 4. apply ground rules of quality control for building materials and products 5. find and comply with regulations of chemical substances management related to building materials and products.	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject

Subject contents

Basics od total quality management. Business excellance. Normalization, certyfication and integration of quality, environment, industrial safety and information safety management systems. Methods and tools of quality improvement. Quality costs. Selected systems and standards of quality management. Quality in production management. Regulations on chemical substances management. Normalization and conformity estimation for building materials.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Multimedial presentation	60.0%	30.0%
Activity during classes	60.0%	20.0%
Homework in the field of ISO standards	60.0%	50.0%

Recommended reading

Basic literature	1. J. Łunarski, Zarządzanie jakością, WNT 2008 2. Ustawa z dn. 16 kwietnia 2004 r. o wyrobach budowlanych (Dz.U. nr 92, poz. 881) z późn. zmianami 3. Ustawa z dn. 30 sierpnia 2002 r. o systemie oceny zgodności (Dz.U. nr 166, poz. 1360) z późn. zmianami 4. Rozporządzenie (WE) nr 1907/2006 Parlamentu Europejskiego i Rady w sprawie rejestracji, oceny, udzielania zezwoleń i stosowanych ograniczeń w zakresie chemikaliów (REACH)
Supplementary literature	1. P. F. Drucker – Praktyka zarządzania 2. L. Iacocca – Autobiografia 3. J. Stoner, R. Freeman, D.Gilbert – Kierowanie 4. H. Drummond – W pogoni za jakością 5. A. Chauvet – Metody zarządzania – przewodnik 6. J. Brilaman – Nowoczesne koncepcje i metody zarządzania 7. A. Koźmiński, W. Piotrowski Zarządzanie – teoria i praktyka
eResources addresses	

Example issues/ example questions/ tasks being completed

1. Discuss the modern methods of management, Quality Management (ZPJ), the philosophy of quality - concepts of Deming, Juran, Crosby

2. Discuss the quality management system based on ISO 9000

3. What management system should be implemented at the time of development of the organization

Work placement

Not applicable