



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Elective subject III (Chemistry in pop culture)

Course

Field of study	Year/Semester
Chemical and process engineering	2/3
Area of study (specialization)	Profile of study
Chemical engineering	general academic
Level of study	Course offered in
Second-cycle studies	Polish
Form of study	Requirements
full-time	elective

Number of hours

Lecture	Laboratory classes	Other (e.g. online)
15		
Tutorials	Projects/seminars	

Number of credit points

1

Lecturers

Responsible for the course/lecturer:
dr hab. inż. Katarzyna Staszak

Responsible for the course/lecturer:

Prerequisites

The student has knowledge of chemistry and other related areas of science, allowing to formulate and solve simple and complex issues related to chemistry and chemical engineering. Moreover, the student has the ability to obtain and critically evaluate information from literature, databases and other sources and to formulate opinions and reports on this basis.

Course objective

The aim of the lecture "Chemistry in pop culture" is to ensure, apart from the obvious scientific development of students, their development in the social and cultural context.

Course-related learning outcomes

Knowledge

The student has an extended and in-depth knowledge of chemistry, chemical engineering and related sciences necessary to critically assess the information presented in various sources, including media, films, books of also non-scientific character and to present student own conclusions (K_W01, K_W02, K_W03).



Skills

The student has the ability to communicate with specialists and non-specialists in the field of chemical technology and related fields. Moreover, he is able to verify the concepts of presented engineering and chemical solutions in various sources, including media, in relation to the state of knowledge in chemical and process engineering and chemical technology (K_U04, K_U10).

Social competences

The student is aware of the social role of a technical university graduate, and in particular understands the need to formulate and communicate to the public, in particular through the mass media, information and opinions on technological achievements and other aspects of engineering activity; he or she makes efforts to communicate such information in a commonly understood way, justifying different points of view (K_K07).

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The semester evaluation consists of the assessment of students' activity during classes, their skills in critical assessment of the presented lecture content and their own studies prepared.

Programme content

The classes discuss issues related to the form of presentation and their correctness in chemistry, chemical engineering and related sciences in such sources as literature, films, computer game series, music, art, but also in fashion and social media. The reliability of the presented information is analyzed along with possible correction of errors based on the knowledge gained in the course of studies.

Teaching methods

Presentation at the lecture of the discussed issues together with a discussion conducted with students. Classes are held in the form of a seminar, during which the students are engaged to speak about the content presented during the presentation. As part of the classes, the students also prepare short presentations on the issues discussed during the lectures.

Bibliography

Basic

1. Balazs Hargittai, István Hargittai, Culture of Chemistry. The Best Articles on the Human Side of 20th-Century Chemistry from the Archives of the Chemical Intelligencer, Springer, 2000 .
2. Mark A. Griep, Marjorie L. Mikasen, ReAction!: Chemistry in the Movies, Oxford University Press, 2009.

Additional

1. Websites dedicated to culture, films and media.



Breakdown of average student's workload

	Hours	ECTS
Total workload	30	1,0
Classes requiring direct contact with the teacher	20	0,7
Student's own work (literature studies, presentation preparation, project preparation) ¹	10	0,3

¹ delete or add other activities as appropriate