UNIWERSYTET IM. ADAMA MICKIEWICZA W POZNANIU

Internet

Educational subject description sheet

Basic information

Study programme Chemia (General Chemistry)	**Didactic cycle** 2023/24
Speciality -	**Subject code** 02CENS.14KU.01825.23
Organizational unit Faculty of Chemistry	**Lecture languages** English
Study level First-cycle programme	**Course type** Elective
Study form Full-time	**Block** Complementary major subjects
Education profile General academic	

Subject coordinator	Marcin Hoffmann
Lecturer	Marcin Hoffmann

Period	**Activities and hours**	**Number of ECTS points**
Semester 3	• Lecture: 15, Graded credit	1

Goals

Code	Goal
C1	Presentation of the possibility of using the Internet as a source of professional information.
C2	Developing the habit of critically evaluating information.
C3	Introduction of web-based tools to support group work.

Entry requirements

No prerequisites required.

Subject learning outcomes

Code	Outcomes in terms of	Learning outcomes	Examination methods
Skills – Student:			
U1	is able to prepare documents in the cloud using google documents as an example.	CEN_K1_U11, CEN_K1_U12, CEN_K1_U20, CEN_K1_U21	Project
U2	is able to undertake group work on a study report on literature databases, i.e. SCOPUS and Web of Science.	CEN_K1_U11, CEN_K1_U13, CEN_K1_U20	Project
U3	is able to use basic html tags.	CEN_K1_U12, CEN_K1_U19, CEN_K1_U20	Project
U4	is able to prepare css style sheets.	CEN_K1_U13, CEN_K1_U19, CEN_K1_U20	Project
U5	is able to compose a selected web page and publish it on a server.	CEN_K1_U19, CEN_K1_U20	Project

Study content

No.	Course content	Subject learning outcomes	Activities
1.	The Internet, what it is, how it is developing, how to use it.	U1, U3	Lecture
2.	Structural and presentational layer in web development.	U1, U3, U5	Lecture
3.	Scripting languages and their use in web projects.	U3, U4	Lecture
4.	Creation of models and their description by computational methods implemented using scripting languages.	U4	Lecture
5.	Operations on information stored in databases using simple scripts.	U3, U4, U5	Lecture
6.	Use and improvement of ready-made scripts for the introduction of interactive elements.	U1, U2, U3, U5	Lecture
7.	Developing a package of web pages presenting a selected scientific discovery.	U1, U2, U3, U5	Lecture

Additional information

Activities	Teaching and learning methods and activities
Lecture	Laboratory method, Workshop method

Activities	Credit conditions
Lecture	The classification requirement is a minimum attendance of 80% of the classes. Components of the final grade: • Grade for class participation • Practical assignment completion Grading scale with applied percentage distribution: • excellent (5.0): achievement of the student's expected learning outcomes at a minimum of 92.0% • very good (4.5): achievement by the student of the desired learning outcomes ranging from 84.0% - 91.9% • good (4.0): achievement of student learning outcomes 76.0% - 83.9% • average (3.5): achievement of student learning outcomes 68.0% - 75.9% • satisfactory (3.0): attainment of the student learning outcomes within 60.0% - 67.9% • unsatisfactory (2.0): failure of the student to achieve the expected learning outcomes below 60.0%.

Literature

Obligatory

1. Literature is selected by the tutor depending on the sophistication of the tasks

Calculation of ECTS points

Activities	Activity hours*
Lecture	15
Preparation for classes	15
Student workload	**Hours** 30
Number of ECTS points	**ECTS** 1

* academic hour = 45 minutes

Efekty uczenia się dla kierunku

Kod	Treść
CEN_K1_U11	The graduate can use specialised computer software to visualise and describe chemical processes
CEN_K1_U12	The graduate can perform basic model calculations for chemical molecules or processes
CEN_K1_U13	The graduate can apply basic principles of symmetry to the interpretation of crystallographic structures
CEN_K1_U19	The graduate can analyse and develop test results and prepare a final report on the chemical and physico-chemical experiments carried out
CEN_K1_U20	The graduate can use databases to retrieve information needed in the chemist's work
CEN_K1_U21	The graduate can independently obtain information from both Polish and foreign literature, physicochemical tables and other available sources