

FACULTY OF CHEMISTRY					
<b>SUBJECT CARD</b>					
<b>Name of subject in Polish</b> <i>Informacja naukowa i techniczna</i>					
<b>Name of subject in English</b> <i>Retrieval of scientific and technical information</i>					
<b>Main field of study (if applicable):</b> <i>Biosciences</i>					
<b>Specialization (if applicable):</b> <i>Bioinformatics, Medicinal Chemistry</i>					
<b>Profile:</b> <del>academic</del> / <del>practical</del> *					
<b>Level and form of studies:</b> <del>1st/ 2nd level, uniform magister studies*</del> , <del>full-time</del> / <del>part-time</del> *					
<b>Kind of subject:</b> <del>obligatory</del> / <del>optional</del> / <del>university-wide</del> *					
<b>Subject code</b> W03BSS-SM2008L					
<b>Group of courses</b> NO					
	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU)			15		
Number of hours of total student workload (CNPS)			25		
Form of crediting (Examination / crediting with grade)			Crediting with grade		
For group of courses mark (X) final course					
Number of ECTS points			1		
including number of ECTS points for practical classes (P)			1		
including number of ECTS points corresponding to classes that require direct participation of lecturers and other academics (BU)			0,7		

\*delete as not necessary

**PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES**

1. Basic knowledge of information technology

**SUBJECT OBJECTIVES**

- C1 Acquainting with the selected topics regarding the scientific literature
- C2 Acquainting with the literature databases
- C3 Acquainting with the factographic databases in the fields of chemistry and biotechnology
- C4 Acquainting with the research funding
- C5 Acquainting with the selected topics of ethics in science

**SUBJECT EDUCATIONAL EFFECTS**

relating to skills:

- PEU\_U01 Student is able to develop the complex search queries for literature databases
- PEU\_U02 Student is able to develop the complex search queries for factographic databases
- PEU\_U03 Student is able to find job and internship calls
- PEU\_U04 Student is able to find active grants regarding the selected topic
- PEU\_U05 Student is able to detect the plagiarism

relating to social competences:

- PEU\_K01 Student appreciates the necessity of the assessment of the quality and credibility of

the scientific information  
 PEU\_K02 Student is able to follow the code of ethics in science and to respect the copyright policies

**PROGRAMME CONTENT**

<b>Lecture</b>		<b>Number of hours</b>
Lec 1		
Lec 2		
Lec 3		
Lec 4		
Lec 5		
....		
	Total hours	

<b>Classes</b>		<b>Number of hours</b>
Cl 1		
Cl 2		
Cl 3		
Cl 4		
..		
	Total hours	

<b>Laboratory</b>		<b>Number of hours</b>
Lab 1	Structure and preparation of scientific articles	2
Lab 2	Current Contents literature database and building of search queries	2
Lab 3	Web of Science literature database and Journal Citation Reports	2
Lab 4	Preparation of grant proposals and searching for grants, internships and patents	2
Lab 5	Analysis of structural data from Cambridge Structural Database	2
Lab 6	Reaxys-Beilstein and Scifinder-Chemical Abstracts databases	2
Lab 7	Searching for job offers and preparation of academic resume	2
Lab 8	Code of ethics in science	1
	Total hours	15

<b>Project</b>		<b>Number of hours</b>
Proj 1		
Proj 2		
Proj 3		
Proj 4		
...		
	Total hours	

<b>Seminar</b>		<b>Number of</b>
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		hours
Semin 1		
Semin 2		
Semin 3		
...		
	Total hours	

### TEACHING TOOLS USED

- N1. Lecture with multimedia presentation  
 N2. Problem solving  
 N3. Problem solving with the computer software

### EVALUATION OF SUBJECT LEARNING OUTCOMES ACHIEVEMENT

Evaluation (F – forming during semester), P – concluding (at semester end)	Learning outcomes code	Way of evaluating learning outcomes achievement
F	PEU_U01-PEU_U05 PEU_K01, PEU_K02	Final report (max 100 points)
P = 3,0 (F=50-60 points) 3,5 (F=61-70 points) 4,0 (F=71-80 points) 4,5 (F=81-90 points) 5,0 (F=91-95 points) 5,5 (F=96-100 points)		

### PRIMARY AND SECONDARY LITERATURE

#### **PRIMARY LITERATURE:**

- [1] D. Ridley, Finding scientific information – information retrieval, Wiley, 2002  
 [2] D. Lindsay, Scientific writing = thinking in words, CSIRO Publishing, 2011  
 [3] M. Carter, Designing Science Presentations. A Visual Guide to Figures, Papers, Slides, Posters, and More, Academic Press 2013

#### **SECONDARY LITERATURE:**

- [1] On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition, 2009, The National Academies Press

#### **SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)**

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