

FACULTY OF CHEMISTRY					
SUBJECT CARD					
Name of subject in Polish	Informacja naukowa i techniczna				
Name of subject in English	Retrieval of scientific and technical information				
Main field of study (if applicable):	Biotechnology, Chemistry				
Specialization (if applicable):	Bioinformatics, Medicinal Chemistry				
Profile:	academic				
Level and form of studies:	2nd level, uniform magister studies, full-time				
Kind of subject:	obligatory				
Subject code					
Group of courses	NO				
	Lecture	Classes	Laboratory	Project	Seminar
Number of hours of organized classes in University (ZZU)			15		
Number of hours of total student workload (CNPS)			30		
Form of crediting			crediting with grade		
For group of courses mark (X) final course					
Number of ECTS points			1		
including number of ECTS points for practical (P) classes			1		
including number of ECTS points for direct teacher-student contact (BU) classes			0,7		
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					
C4 Acquainting with the research funding					
C5 Acquainting with the selected topics of ethics in science					
SUBJECT LEARNING OUTCOMES					
relating to knowledge:					
PEK_W01 Student possesses the basic knowledge of the essential literature databases alongwith the structure and preparation of scientific articles					
PEK_W02 Student knows the essential factographic databases in the field of chemistry and biotechnology					
PEK_W03 Student knows the essential institutions funding the scientific research					
PEK_W04 Student is familiar with the code of ethics in science					
relating to skills:					
PEK_U01 Student is able to develop the complex search queries for literature databases					
PEK_U02 Student is able to develop the complex search queries for factographic databases					
PEK_U03 Student is able to find job and internship calls					
PEK_U04 Student is able to find active grants regarding the selected topic					
PEK_U05 Student is able to detect the plagiarism					
relating to social competences:					
PEK_K01 Student appreciates the necessity of the assessment of the quality and credibility of the scientific information					
PEK_K02 Student is able to follow the code of ethics in science and to respect the copyright policies					

PROGRAMME CONTENT		
Laboratory		Number of hours
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
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))	Educational effect number	Way of evaluating educational effect achievement
F	PEK_U01-PEK_U05 PEK_K01, PEK_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		
<u>PRIMARY LITERATURE:</u>		
[1] D. Ridley, Finding scientific information – information retrieval, Wiley, 2002		
[2] D. Lindsay, Scientific writing = thinking in words, CSIRO Publishing, 2011		
<u>SECONDARY LITERATURE:</u>		
[1] On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition, 2009, The National Academies Press		
https://www.ncbi.nlm.nih.gov/books/NBK214568/pdf/Bookshelf_NBK214568.pdf		
SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)		
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