POZNAN UNIVERSITY OF TECHNOLOGY

COURSE DESCRIPTION CARD - SYLLABUS

Course name
Pre-diploma Seminar [S2Inf1E-IO>SEM1]

Course

Field of study	Year/Semester
Computing	1/2
Area of study (specialization)	Profile of study
Software Engineering	general academic
Level of study	Course offered in
second-cycle	English
Form of study	Requirements
full-time	compulsory

Number of hours

Lecture	Laboratory classes	Other
0	0	0
Tutorials	Projects/seminars	
0	30	

Number of credit points

2,00

Coordinators	Lecturers
prof. dr hab. inż. Jerzy Nawrocki jerzy.nawrocki@put.poznan.pl	

Prerequisites

The student should know English at least at the B2 level, be able to prepare presentation slides using PowerPoint or a similar tool and know the rudiments of the LaTeX system.

Course objective

The course aims to prepare students for the proper (i.e., based on literature studies) selection and formulation of the diploma thesis topic. In addition, students will become familiar with the methods of conducting literature studies and selected tools.

Course-related learning outcomes

Knowledge:
the student has an in-depth knowledge of the issues concerning his/her future thesis. (k2st_w4)
the student knows the structure of a "structured abstract" and the protocol of a systematic literature review. (k2st_w6)
the student has basic knowledge of intellectual property and the phenomenon of plagiarism. (k2st_w7)

Skills:

the student is able to conduct a literature study based on a systematic literature review. (k2st_u1)
the student is able to select appropriate bibiographical databases and formulate queries related to the research questions. (k2s_u2)
the student is able to discuss in information technology topics (k2s_u12).
the student is able to prepare and deliver a presentation. (k2s_u13)
the student is able to act as a reviewer and point out possible weaknesses in the slr protocol (k2s_u15)
the student is able to independently acquire the knowledge needed to write a thesis. (k2st_u16)

Social competences:
the student realizes the rapid growth of knowledge and how quickly his achievements can become obsolete. (k2st_k1)
the student realizes the importance - from a practical point of view - of using the latest knowledge. (k2st_k2)
the student realizes how important it is - also for himself - to share knowledge with others. (k2st_k3)
the student realizes the consequences of plagiarism. (k2st_k4)

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

The final grade will be based on the following component grades:
* Result of the test regarding the material presented in the lecture form
* Assessment of the literature study protocol
* Assessment of the interim report
* Assessment of the final report
* Assessment of the review of the final report
* Assessment of the research project statement
* Assessment of the chairperson role
Each of these grades will be expressed on a scale of 0-10 points, and the final grade will be based on a weighted average of the component grades.

Programme content

Systematic Literature Studies
Multimedia presentations - Basic principles
Good practices in scientific discussions and reviews
Formulating an aim of a research project
References, citations, and bibliographic styles
Master's thesis structure and the diploma procedure

Course topics

Systematic Literature Reviews vs. Systematic Mapping Studies
Protocols of Systematic Literature Studies
Query-based literature studies
Snowballing method
The Covidence tool
Threats to validity
Checklist-based assessment of protocol's quality
Good and bad practices of multimedia presentations
Aim formulation based on the SMART criteria and the structured abstract concept
BibTeX
Types and structure of master's thesis

Teaching methods

During the first meetings, the teacher presents the methods of literature studies and other useful techniques in the form of a lecture (multimedia presentation). The remaining meetings are devoted to multimedia presentations prepared by the students. After each student presentation, there is a discussion focused on the strengths and weaknesses of the presentation. The seminar is supported by the eKursy platform (Moodle), where instructional materials are available and through which students send their slides and other stuff.

Bibliography

Basic

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Additional

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Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	20	1,00