POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

COURSE DESCRIPTION CARD - SYLLABUS

Course name Diploma Seminar [S2Inf1-SzInt>SEM]

Course			
Field of study Computing		Year/Semester 2/3	
Area of study (specialization) Artificial Intelligence		Profile of study general academic	2
Level of study second-cycle		Course offered in Polish	
Form of study full-time		Requirements compulsory	
Number of hours			
Lecture 0	Laboratory class 0	es	Other (e.g. online) 0
Tutorials 0	Projects/seminar 30	S	
Number of credit points 2,00			
Coordinators		Lecturers	
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Prerequisites

Knowledge: fundamental domain knowledge (including knowledge on methods, techniques and tools) related to the specific topic addressed in the dissertation. Skills: ability to compile knowledge from various sources; ability to form and solve scientific problems related to the topic of the dissertation as well as adjacent fields of computing and information technology. (Recommended) A fair amount of cognitive curiosity and not less perseverance in pursuing the goals of personal development.

Course objective

1. Sharing fundamentals on the methodology of obtaining, collecting and disseminating research results, in particular those related to graduate dissertations in computing and information technology. 2. Sharing skills on forming and solving problems related to integrating and interpreting multi-source data and multi-source knowledge on various research aspects. 3. Sharing skills and knowledge on the ongoing research in the field related to the specific topic addressed in the dissertation.

Course-related learning outcomes

Knowledge: students:

-- have knowledge about development trends and the most important cutting edge achievements in computer science and other selected and scientific disciplines, especially those related to topic addressed in the graduate dissertation [k2st_w4]

-- know advanced methods, techniques and tools used to solve complex engineering tasks and conduct research in a selected area of computer science related to the specific topic addressed in the graduate dissertation [k2st_w6]

-- have knowledge about ethical codes related to scientific research conducted in the field of computer science [k2st_w7]

Skills:

students:

-- are able to obtain information from literature, databases and other sources in polish (and possibly english), integrate, interpret and critically evaluate them, draw conclusions and formulate as well as justify opinions [k2st_u1]

-- are able to use it-based information and communication techniques when implementing various aspects of the graduate dissertation [k2st_u2]

-- can communicate both in polish (and possibly english) using different techniques in a professional environment and in other environments, also using it tools [k2st_u12]

-- are able to prepare and present a scientific study in polish (and possibly english), presenting the results of scientific research or oral presentation on specific issues related to the graduate dissertation [k2st_u13]

-- can determine the directions of further learning and implement the process of self-education, including education of other people [k2st_u16]

Social competences:

students:

-- understand that in the field of it the knowledge and skills quickly become obsolete [k2st_k1]

-- understand the importance of using the latest knowledge in the field of computer science in solving research and practical problems [k2st_k2]

-- understand the importance of popularization activities concerning the latest achievements in the field of computer science [k2st_k3]

-- are aware of the need to develop professional achievements and comply with the rules of professional ethics [k2st_k4]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Learning outcomes presented above are verified as follows:

Verification of students' knowledge/skills is based on the various aspects of created slide shows and delivered presentations, in particular on:

-- formal completeness and corretness,

- -- merit completeness and corretness,
- -- sufficiency and adequacy of the research-related content,

-- sufficiency and adequacy of the educational content.

Apart from presenting their arguments, when confronted with detailed questions or pieces of critical judgment (which may concern both the form and merits of the presentations), students are expected to put up justified defence of their own arguments. Simultaneously, they are expected to identify and point out potential weak points in the argumentation provided by other students.

Programme content

The graduate seminar, together with the individual dissertations, introduces the students to conducting practical research, together with the multiplicity of its problems and issues; which are aspects crucial to the second cycle studies. During the seminar students first of all learn about various research problems and various ways to solve such problems. Additionally, students are provided with information on the format of the approaching degree examination, and potential forms of further education (third cycle studies, post-graduate courses, etc.).

Formally, two basic issues are presented: (indirectly) creating research documentation and (directly) disseminating research results. The particular topics, apart from rules and various technological aspects of typography, concern theoretical and practical research problems.

During the seminar students prepare two slide shows detailing the topic addressed in their dissertations, which serve as bases for two presentations. The main objectives of these presentations include: conveying research problems undertaken in the dissertations and justifying own solutions to these problems.

The presentations basically aim at sketching out:

(first presentation)

- -- the chosen topic, its objectives and guidelines,
- -- a short justification of the choice,
- -- the current state of knowledge in the underlying domain,
- -- preliminary selection of tools and methods,
- -- the detailed schedule of activities.

(second presentation)

-- the state of play,

- -- achieved results,
- -- schedule compliance issues (if applicable),
- -- modifications to original objectives/guidelines (if applicable).

On undelayed progress, both slide shows (after appropriate merging) become the final slide show to be used in the degree examination.

Last but not least, the objectives of the seminar include raising awareness of the role that information technology engineering plays in the modern society, together with its liability, responsibilities and related issues of professional ethics.

Course topics

none

Teaching methods

Short presentations/talks on selected topics, consultations on research issues related to the research problems addressed by the various dissertations, discussion and Q&A sessions on all aspects (including form and merits) of the students' presentations.

Bibliography

Basic

1. P. Lenar: "Profesjonalna prezentacja multimedialna (jak uniknąć 27 najczęściej popełnianych błędów?)", Helion, Gliwice, 2010.

2. D. Lindsay: "Dobre rady dla piszących teksty naukowe", Politechnika Wrocławska, Wrocław, 1995. Additional

1. A. Jay, R. Jay: "Skuteczna prezentacja", Zysk i S-ka, Poznań, 2001.

2. R. Williams: "Prezentacja, która robi wrażenie. Projekty z klasą", Helion, Gliwice, 2011

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