STUDY MODULE DESCRIPTION FORM

Name of the module/subject **Diploma Seminar**	Code **1010512331010510723**

Field of study **Computing**	Profile of study (general academic, practical) **general academic**	Year /Semester **2 / 3**

Elective path/specialty **Software Engineering**	Subject offered in: **English**	Course (compulsory, elective) **obligatory**

Cycle of study: **Second-cycle studies**	Form of study (full-time,part-time) **full-time**

No. of hours				No. of credits **2**
Lecture: **-**	Classes: **20**	Laboratory: **-**	Project/seminars: **-**	

Status of the course in the study program (Basic, major, other) **major**	(university-wide, from another field) **from field**

Education areas and fields of science and art **technical sciences**	ECTS distribution (number and %**)** **2 100%**

Responsible for subject / lecturer:

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Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	Student starting this course should have a basic domain knowledge related to the topic of Master thesis in the field of science and they should know the basic methods, techniques and tools used in solving the tasks of the field.
2	**Skills**	Student should be able to solve the basic problems of the selected area and to integrate knowledge from different areas of computing science and the ability to obtain information from the recommended sources.
3	**Social competencies**	Student should also understand the need to expand own competences. In addition, in the social attitudes area the student must present such attitudes as honesty, responsibility, perseverance, curiosity, creativity, manners, respect for other people.

Assumptions and objectives of the course:

1. Provide students with basic knowledge of the methodology of preparing and presenting scientific papers in the field of computer science.

2. Develop students' ability to solve problems related to the acquisition of knowledge from selected sources, integration and interpretation of the acquired information and the presentation of research results. Increasing knowledge about the methods, techniques, and tools related to conducting research in a particular field.

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. has detailed theoretical knowledge related to the field of computer science in the area of the chosen topic of the thesis - [K_W5]

2. has knowledge regarding trends and the most important new achievements in selected area of computer science and selected related science disciplines - [K_W6]

3. knows the fundamental methods, techniques and tools used to solve complex engineering tasks in the selected area of computer science - [K_W8]

4. knows and understands the rules for the preparation and editing of scientific publications, and has the knowledge necessary to prepare and present a scientific presentation - [-]

Skills:

1. is able to acquire, combine, interpret and evaluate information from literature, databases and other information sources (in native language and English); draw conclusions, and formulate opinions based on it.   - [K_U1]

2. is able to communicate in native language and English, using different techniques in professional environment, also with the use of IT tools   - [K_U2]

3. is able to prepare an elaboration in native language and a short research report in English presenting the results of research   - [K_U3]

4. is able to prepare and give an oral presentation in English regarding specific computer science problems - [K_U4]

Social competencies:
1. understands that knowledge and skills related to computer science quickly become obsolete - [K_K1]
2. is able to inspire and organize self-education of others by presenting the selected area, the state of knowledge, important issues and challenges - [K_K2]
3. knows the possibilities of further education in areas of academic and in collaboration with industry, businesses and professional organizations - [K_K3]
4. is able to correctly assign priorities for implementing tasks specified by himself or others, divide the work into stages and develop a schedule, to categorize the stages of importance, urgency and impact on other stages and the whole task - [K_K6]

Assessment methods of study outcomes

Formative assessment:

- on the basis of completeness and accuracy of prepared presentation,
- on the basis of the active presence during the presentations prepared by other students,
- on the basis of the current progress of the tasks in accordance with the schedule.

Summative assessment:

- assessment of student preparation for each presentation and their compliance with the initial plan,
- continuous evaluation for each seminar (oral response) - based on substantive activity during other people presentations,
- rewarding gain in skills of using known principles and methods,
- based on timely realization of work,
- discussion on additional aspects of the subject,
- effective use of knowledge in solving problems.

Course description

Seminars are conducted in the form of ten 2-hour meetings. During seminar classes, the students are to prepare and present at approximately monthly intervals three presentations in English related to the topic of realized Master thesis.

The first presentation aims to provide:

- the topic of the thesis, its purpose and scope,
- the reasons for selecting the particular topic and purpose of its implementation,
- the anticipated division of labour into phases and the schedule of implementations of particular phases,
- pre-selected tools and methods for the task,
- the current state of knowledge in the field,
- values provided by completed work.

The second presentation covers:

- the current progress of work,
- compliance with the planned schedule,
- a detailed plan of further work and possible modifications to initial assumptions,
- possible news and changes in domain knowledge.

The third presentation:

- takes place when the student is nearing completion or has already completed the preparation of the thesis,
- should be as similar as possible to the final version prepared for the defense of the thesis,
- within the stipulated time student is to cover:
- the state of knowledge in the area,
- the problem being solved and motivation for the thesis,
- the chosen (and possibly rejected with reasons of rejection) tools and techniques,
- the achieved results, possible failures and their causes, conclusions, limitations, opportunities for further development.

During each presentation the other students are to:

- actively participate in the class,
- identify concerns / uncertainties in the presented material and solutions,
- make suggestions for possible improvements and deepening the subject,
- participate in the discussion planned after each presentation.

Learning methods:

multimedia presentation, presentation illustrated with examples presented on the black board, multimedia showcase,

presentation of achieved results, a demonstration of developed or expanded software, questions and discussion.

Basic bibliography:

1. The Non-Designer's Presentation Book, Williams R., Peachpit Press, San Francisco, 2009.

2. The Craft of Scientific Presentations: Critical Steps to Succeed and Critical Errors to Avoid, Alley M., sharif.edu/~namvar/index_files/Scientific-Presentation.pdf, 2002.

Additional bibliography:

1. Rethinking PowerPoint: Designing & Delivering Presentations That Engage The Mind, Galloway R., Method Content LLC, Chicago/NYC, 2011.

Result of average student's workload	
Activity	**Time (working hours)**
1. participating in seminars: 10 x 2 hours,	20
2. preparation for seminars: 3 x 5 hours,	15
3. consulting issues related to development of the work with lecturer / promoter	4
4. studying literature / learning aids (10 pages = 1 hour), 100 pages	10
5. evaluation based on previously enumerated learning objectives assessment methods	2

Student's workload		
Source of workload	**hours**	**ECTS**
Total workload	51	2
Contact hours	26	1
Practical activities	39	1