VIDZEMES AUGSTSKOLA

FACULTY OF ENGINEERING
STUDY COURSE DESCRIPTION

Course Title:	Research development and presentation skills
Course code (LAIS):	
Study programme:	**Information technologies**
Level of Study programme:	☒ 1st level professional higher education
	☒ Professional Bachelor
	☐ Professional Master
	☐ Academic Master
	☐ PhD level
Type of Study programme:	☒ Compulsory course (Part A)
	☐ Professional specialization courses (Part B, compulsory)
	☐ Professional specialization optional courses (Part B, optional)
	☐ Elective courses (Part C)

Course Workload:	**Credits**	**ECTS**	**Academic hours**	**Contact hours**	**Independent work hours**
	2	3	80	32	48

Course Author/ Tutor:	**Sarma Cakula**
	Professor, Ph.D
	sarma.cakula@va.lv
	Consultation: according to the schedule for each semester
Study Form:	Full time studies/part time studies
Study year, semester:	Seconf study year, third semester
Language:	Latvian, English
Prerequisites for the Course:	
Course Summary:	The aim of the course is to provide an insight and knowledge of how research and practical work to be developed, how they are documented and presented.
Assessment:	**Final assessment consists of**:
	1. Individual work in practical exercises during the course - 40 %.
	2. Have a positive assessment (at least 4 points) in the exam (accounting for 20% of the final grade);
	3. Tests 40% of final evaluation.
	4. If the student does not fulfill the conditions for obtaining a positive evaluation, the next time the course must be redeployed in full;
	Participation in the seminar will be evaluated in the 10-point system, taking into account the following criteria:
	brilliant (10) - knowledge, skills and competence go beyond the requirements of the seminar;
	Excellent (9) - Knowledge, skills and competence fully meet the requirements of the workshop;
	Very good (8) - Completely fulfilled requirements of the seminar, however, there are not enough deep awareness on some issues to apply knowledge independently to solve more complex problems;
	well (7) - the requirements of the seminar are generally met; however, sometimes the inability to use the acquired knowledge independently is detected;
	Almost well (6) - the requirements of the seminar are fulfilled, but at the same time there is an insufficient understanding of the deep problem and lack of skills to use the acquired knowledge;
	Mediocre (5) - In general, the requirements of the workshop have been met; however, there is insufficient knowledge of some problems and inability to use the acquired knowledge;
	almost satisfactory (4) - generally, the requirements of the workshop have been met; however, there is insufficient understanding of some basic concepts; there are significant difficulties in the practical use of the acquired knowledge;
	weak (3) - knowledge is superficial and incomplete, the student is not able to use it in specific situations;
	Very weak (2) - there is superficial knowledge only about certain problems, most of

	the requirements of the seminar have not been learned; very, very weak (1) - there is no understanding of the basic problems of the seminar, there is almost no knowledge of the topics discussed in the seminar. The exam will be evaluated in the 10-point system. The exam will be evaluated as passed if the student answers correctly to 3 expanded questions
Requirements for Credits:	**Requirements**: 1. Practical exercises must be prepared and delivered in determined time. 2. Attendance of practical works is compulsory or individual tasks must be work off. 3. Positive evaluation must be received for in all practical works, control tests, exercises and pre-tests.
Abiding by the Academic Ethics	Students must abide by the academic and research ethics, Vidzeme University of Applied Sciences Ethics Regulations, incl.: − study papers must be independently developed; − the study work should reference all statements, ideas and data used that have been authored by someone else; − appropriate data acquisition methods should be used in the acquisition of data, the research ethics must be respected, empirical data must be collected independently and cannot be distorted or falsified; − the examination must be carried out by the student independently, without the use of supporting materials and/or consultations with other students, unless the lecturer states otherwise. In the event of non-compliance with the academic and research ethics, punishment is imposed in accordance with the ViA Ethics Regulations and the study course must be re-taken, unless the punishment is extramarital.

	Learning Outcomes	The evaluation methods and criteria
Learning Outcomes; the evaluation methods and criteria	**Knowledge**	
	Understanding of research documentation	Visiting and mastering lectures, practical works
	Understanding of the analysis of scientific literature	Visiting and mastering lectures, practical works
	Skills	
	Understand and analyze research from scientific databases	2 tests
	Present research results	2 tests
	Document and review research papers	3 tests
	Competency	
	Document a scientific study and develop an appropriate reference system	Assessment of the thesis defense
	Be able to demonstrate research results	Assessment of practical work defense, exam
	Collaborate in the research team	Valuation of research work, exam

Course Compulsory literature:	Mārtinsone K., Pipere A. (red.). (2011). Ievads pētniecībā. Stratēģijas, dizaini, metodes. Rīga: Raka.
Course additional literature:	Regulations and Forms for Information Technology 2nd Level Higher Education and Bachelor Students moodle.va.lv
Course confirmation date:	
Date of course description update:	

Study Course Plan:

Date	Theme	Academic hours		Study Form/ Organization of independent work of students and task description
		Contact hours	**Independent work hours**	
The date is specified before	Research and research. Student's Annual Project Legal and Ethical Aspects of the	4	6	Lecture, group work, independent work studying

the implementation of the course	Study. Plagiarism			literature
	Research Strategies and Designs. Research designs in software engineering. Presentation.	4	6	Lecture, group work, independent work studying literature
	Literature search, compilation, analysis. Citation and references. Creating a list of references	4	6	Lecture, practical work, independent work studying literature
	Practical work / project development methods. Compilation of results and preparation of conclusions.	4	6	Lecture, practical work, independent work studying literature
	Documentation of research and practical work. Structure of the work. Use of the appropriate methodological guidance in the design and presentation of the work. Descriptions of tables and images.	4	6	Lecture, practical work, group work, independent work
	Procedure for defense of research and practical work. Presentation presentation and presentation skills: volume of presentation, content, techniques, body language.	4	8	Lecture, practical work, group work, independent work studying literature
	Research work	8	10	Seminar, presentations
	Hours total:	*32*	64	80