

SYLLABUS

24.03.2023 nr 6.1-14/939-1

SUBJECT CODE		RKRC5225			
NAME OF THE SUBJECT (in Estonian)		Isikliku olukorrateadlikkuse mõõtmise virtuaalsimulatsiooni õppes			
NAME OF THE SUBJECT (in English)		Measuring Personal Situation Awareness with Virtual Simulations			
VOLUME (ECTS)		3 ECTS			
CURRICULUM		Internal security curricula			
PREREQUISITE MODULES AND SUBJECTS:		Sufficient content knowledge of the area in which the student wishes to measure situational awareness			
VOLUME OF STUDIES (study group/form of study)					
LECTURE (number of study hours)	SEMINAR (number of study hours)	PRACTICAL WORK (number of study hours)	INDIVIDUAL WORK (number of study hours)	E-LEARNING (number of study hours)	TOTAL (number of study hours)
10	14	12	24	18	78
OBJECTIVE OF THE SUBJECT: student has understood the concept and role of situation awareness in dynamic decision-making and possibilities to measure personal situation awareness in time-critical and high-risk situations.					
LEARNING OUTCOMES		ASSESSMENT METHODS		ASSESSMENT CRITERIA	
After completing the subject, the student:					
can explain, based on Endsley definition, the concept of situation awareness;		Presenting a virtual simulation at the end of the course with piloting results.		Presentation template and assessment criteria are given in the Moodle course.	
understands the role of situation awareness in dynamic decision-making on his/her field of expertise;		Self-assessed tests on Moodle.		All self-assessed tests on Moodle are passed at least with 70% of maximum points.	

has measured and reflected their actual situation awareness and perceived situation awareness;	Solving a base-line scenario and presenting the meaning of the scores in the seminar.	Proof of scenario solving results and in reflection of the results, the student features their understanding of relations of concepts of actual and perceived situation awareness, actual and perceived situation understanding and information bias and relevance bias in written form. More detail assessment criteria on Moodle next to the task.
has created a virtual simulation in pairs in their field of expertise to measure personal situation awareness	Students co-present a virtual simulation in a web-based platform.	Student has taken part in seminars and practical work at least 85% of times, taken actively part in co-creation of the virtual simulation. Students have co-phrased at least 24 (12 true and 12 false) statements to measure situation awareness and 24 to measure situation understanding (12 relevant and 12 irrelevant). Students have programmed the virtual simulation in web-based platform or if it is computer-based simulation, they are able to present the remote access possibility to solve it. Students have piloted the virtual simulation and made corrections in the final version, if needed.

Requirements for and the composition of the final grade / credit test:

requirements for assessment:

- attendance in seminars and practical work hours is obligatory;
- self-assessment test on Moodle needs to be passed before seminars;
- each student needs to solve the FireFront base-line scenario and present the reflection of assessment results;
- co-creation of a virtual simulation to measure personal situation awareness;
- piloting the co-created virtual simulation and making changes, if needed.

Reading the articles and solving self-assessment test on Moodle before the seminar is required.

Assessment form: Subject is *non-differentiated assessment* (pass/fail).

The undifferentiated assessment is based on pair-work while co-creating the virtual simulation to measure personal situation awareness and personal solved scenarios and reflections.

The subject is passed/failed on the following criteria:

- attendance in contact classes (36 study hours) is at least 84% (30 study hours);
- self-assessment test on Moodle is passed at least 70% scores;
- the FireFront base-line scenario and reflection of his/her own assessment result is posted on Moodle (more detailed criteria on Moodle);
- to co-create a virtual simulation to measure personal situation awareness, the student has actively participated in the process;
- the co-created virtual simulation is piloted at least with two other participants and the changes made in it are presented to everyone in the course in the final seminar presentation.

Compiled by: Stella Polikarpus

Date: 09.03.2023