Study programme(s): Computer Science (CS)	

Level: master

Course title: Master thesis (CS502)

Lecturer: All professors within the study program

Status: mandatory

ECTS: 30

Requirements:
A minimum of 90 ESPBs were achieved and all required courses in the study program were passed

Learning objectives
To introduce the student to the rules, procedures and processes of independent and comprehensive research and written and oral presentations in the field of computer science and theoretical informatics.

Learning outcomes
Minimum: A successful student is expected to demonstrate a) the minimum application of the principles and theoretical foundations acquired during studies, b) minimal progress in knowledge, and c) minimal knowledge of the state of research in the field of master work.
Preferred: A successful student is expected to demonstrate a) adequate application of the principles and theoretical foundations gained during studies, b) significant progress in knowledge, and c) deep knowledge of the state of research in the field of master work.

Syllabus
Independent work of the candidate on the topic he has selected from the list of available topics. Master thesis is described as the final work (project) on which the student works during a predetermined time. In the course of work, it takes into account:
a) Master thesis should include a description of the development of the final work, the achieved results, and a description of the applied method.
b) that the text must be done with respect to the scientific style of writing. References must contain review texts (papers and books) and should in no way contain only references from the Internet that are not reviewed.
c) Master thesis, apart from the main results related to the subject, should also include the presentation of the basic results from the narrow area of the thesis. In this way, the student demonstrates knowledge of the state of research in the field. A good presentation usually includes analysis of scientific papers in English as well as the explanation of the similarity / difference in relation to the results obtained by the candidate.

Teaching methodology
a) The timeline for the elaboration of the thesis is predetermined, but can be extended with the appropriate explanation.
b) The candidate with the approval of the mentor can submit the thesis registration to the Council of the Department of Mathematics and Informatics immediately after the signed research plan is adopted (see points e and f).
c) Progress in the work on the project must be officially considered by the mentor at least once and without the insight into the project and / or work, i.e. only on the basis of planned and realized activities. The mentor gives a critical assessment of the process, considers the reasons for possible delay and provides advice.
d) The mentor is at the disposal to the candidate for all other consultations and advices, which he always gives without the insight into the final project and / or work.
e) The mentor is obliged to consider the final project and written master thesis and to present his opinion to the candidate just once.
f) The candidate is fully responsible for the final project and the master thesis and can submit them without prior notice and mentor's consent.
g) The candidate submits the project and written text to the appropriate authorities at the latest by the

expiration of the deadline (in accordance with the Faculty's rules), after which the it is distributed to the members of the defense board, at least 10 days before scheduling the defense.

h) The defense board meets and approves the defense of the master's thesis prior to the scheduling of the defense, after which the candidate is scheduled and begins public defense of the master thesis. If the board finds that the work does not meet the minimum criteria for the passing grade, the candidate is informed before the defense that he has not passed the final exam.

i) The student publicly presents the basic results of his / her work and answers the board's questions.

Grading method (maximal number of points 100)

Final thesis quality: 70 points.
Quality of written and oral presentation: 30 points.