Doktor znanosti/doktorica znanosti s področja računalništva in informatike

Selected qualifications

Name of qualification

Doktor znanosti/doktorica znanosti s področja računalništva in informatike

Translated title (no legal status)

Doctor of Philosophy in the field of computer and information science

Type of qualification

Doktorat

Category of qualification

Izobrazba

Type of education

Doctoral education

Duration

3 years

Credits

180 credits

Admission requirements

Completed:
• a second-cycle study programme or
• a university study programme adopted prior to 11 June 2004, or
• a first-cycle professional study programme (adopted prior to 11 June 2004) and a study programme to obtain a specialised qualification. Prior to enrolment, such candidates must meet requirements totalling a maximum of 35 ECTS credits from a second-cycle media communications study programme, or
• a study programme that leads to vocations governed by EU directives, or another non-structured master's degree study programme assessed at 300 ECTS credits.

ISCED field

Field
Informacijske in komunikacijske tehnologije (IKT)

ISCED subfield

subfield informacijske in komunikacijske tehnologije (ikt), podrobneje neopredeljeno

Qualification level

SQF 10
EQF 8
Third level

Learning outcomes

The qualification holder is qualified to:

(general competences)

- think analytically and break down complex problems and situations,
- understand complex natural, technical, technological, economic-entrepreneurial and social situations and models,
- formulate and express expert opinions supported by well-argued positions from the profession and science,
- demonstrate a critical approach to research, responsibility, initiative and independence in scientific experiments and development tasks,
- understand scientific methodologies, methods and techniques, as well as development and technological requirements that arise in the economy, and
- demonstrate sound understanding of the basics of patent engineering, the introduction of technical and technological improvements and their linking with scientific research and their importance for social development.

(subject-specific competences)

- demonstrate broad knowledge of computer and information technologies, appropriate for research in several specific specialisations, such as intelligent systems, multimodal human-machine interfaces, ubiquitous computing, software engineering, information technologies and services, etc.,
- possess sound knowledge of mathematical-technical devices to understand the functioning of and analyse and synthesise computer and information models and systems,

- demonstrate superior mastery of methodologies and techniques of scientific and development research, and of scientific communication, and
- research, develop and synthesise new methods, procedures or devices derived from analyses, and simulate complex problems and situations and experiments to confirm sound hypotheses and solutions.

Assessment and completion

Examination performance is scored as follows: 10 (excellent); 9 (very good: above-average knowledge but with some mistakes); 8 (very good: solid results); 7 (good); 6 (adequate: knowledge satisfies minimum criteria); 5–1 (inadequate). In order to pass an examination, a candidate must achieve a grade between adequate (6) and excellent (10).

Progression

Students progress to the second year if they have met first-year requirements and accumulated at least 40 ECTS credits. They must also sit for an examination in the subject Scientific Research Work Methods and complete Seminar 1. Students progress to the third year if they have completed all first-year examinations and accumulated at least 40 additional ECTS credits by completing second-year examinations. They must also complete Seminar 2.

Condition for obtaining certificate

Students must meet all prescribed requirements of a study programme and accumulate at least 180 ECTS credits.

Awarding body

University of Maribor, Faculty of Electrical Engineering and Computer Science

URL

https://feri.um.si/en/