SLOVENSKO
OGRODJE
KVALIFIKACIJ

Magister inženir daljinskega vodenja/Magistrica inženirka daljinskega vodenja

Selected qualifications

Magister profesor zgodnjega učenja/magistrica profesorica zgodnjega učenja

Name of qualification	Magister inženir daljinskega vodenja/Magistrica inženirka daljinskega vodenja
Translated title (no legal status)	Master of Science of remote management
Type of qualification	Diploma druge stopnje
Category of qualification	Izobrazba
Type of education	Master's education
Duration	2 years
Credits	120 credits

Admission requirements

According to the criteria for transition enrolment in the second year of the second-cycle study programme European Master's Study of Remote Management is open to candidates who:
• are graduates of the university study programme, adopted prior to 11 June 2004, in relevant professional fields: Electrical Engineering, Telecommunications, Computer Science and Informatics, Mechanical Engineering (Mechatronic stream), and are granted 60 credits upon enrolment in the study programme, or
• are graduates of the university study programme, adopted prior to 11 June 2004, in other professional fields: Mechanical Engineering, Media Communications, Civil Engineering and Chemical Technology, and are granted from 10 to 50 credits upon enrolment in the study programme, which are determined by the Study Affairs Commission UM FERI in accordance to the programme and the stream within the programme, or
• have finished a professional higher education study programme and a study programme leading to a specialisation in relevant professional fields of Electrical Engineering, Telecommunications, Computer Science and Informatics, Mechanical Engineering (Mechatronic stream) and are granted 60 credits upon enrolment; or
• are graduates of the professional higher education study programme and of the study programme leading to a specialisation in other professional fields: Mechanical Engineering, Media Communications, Civil Engineering and Chemical Technology, and are granted from 10 to 50 credits upon enrolment in the study programme, which are determined by the Study Affairs Commission UM FERI in accordance to the programme and the stream within the programme.

ISCED field

Field
Tehnika, proizvodne tehnologije in gradbeništvo

ISCED subfield

subfield elektronika in avtomatizacija

Qualification level

SQF 8
EQF 7
Second level

Learning outcomes

The qualification holder will be able to:

General competences

- think critically and understand theoretical findings of remote management together with an appropriate analysis and synthesis for applying these findings in practice in the field of remote

management (projects tasks, learning at work);
- Perform analysis and synthesis of theoretical knowledge for complex technical systems of remote management as a basis for understanding and resolving real issues of systems working in practice;
- Address problems in practice using searching for resources of knowledge and scientific methods of research;
- Think in a systemic and research manner for inclusion in multi-disciplinary and inter-disciplinary group for addressing and resolving real systems in different fields, such as remote measurements, remote management of robots, remote observance, remote management of machines and other;
- Autonomously acquire and apply information and by that, learning on the go;
- Promote the ability of work planning, entrepreneurship and innovativeness for work in a determined, limited deadline;
- Encourage group work and effective communication and work coordination among individual group members;
- Professionally manage a group, or demonstrate familiarity of management tasks and functions within the field of remote management;
- Demonstrate communication skills in local, national and international environments, and by them enhance professional oral and written communication also in a foreign language;
- Autonomously offer relevant critical, responsible and scientifically supported resolutions to problems;
- Understand world and especially European dimension of remote management and effects of these systems on working environments and employees (applications for European master’s study of remote management and future trends).

Subject-specific competences

- Getting familiar with and understanding a general development of remote management and future trends;
- Acquiring competences for using information and communication technology and internet services for finding information, for communication and for creating applications in the field;
- Understanding and development of professional skills for applying the procedures for analysis, design and evaluation of user interfaces and systemic tools for practical implementation of remote management systems, understanding and practical use of analysis, design and evaluation of user-friendly application for the specific field of remote management;
- enhancing the competence of programming complex application for the needs of remote management and for the field of electronics and mobile and wireless applications;
- Ability for graphic programming of virtual and remote applications and systems of remote management and sensing;
- Effective use of tools for planning and creating systems (graphic programming, remote management systems, teleoperating, telerobotics and others);
- Understanding and applying electronic project documentation;
- Getting familiar with and understanding the fields of telerobotics, teleoperating and mechatronic systems as a combination of the practical use of hardware and software;
- Mastery of basic knowledge for digital processing of images;
- Acquire competence for critical analysis and assessment, and offering theories with professionally supported background as a basis for resolving problems in practice;
- Acquiring the skills for research development work in the professional field of remote management.

Assessment and completion

Examination performance is graded 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

Conditions for progression to the second year: In order to progress to the second year, students must have completed first-year course units totalling 40 credits and all lab classes. The extent of 40 credits covers all the subjects of the compulsory module of the first year.

Transitions

Third-cycle doctoral study programmes (SQF level 10)

Condition for obtaining certificate

Students complete the studies when they have fulfilled all the requirements prescribed by the study programme, and have written and successfully defended master’s thesis in the extent of 30 credits, accumulating a total of at least 120 credits.

Awarding body

University of Maribor, Faculty of Electrical Engineering, Computer Science and Information Science

URL

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