

# Doktor znanosti/doktorica znanosti s področja senzorske tehnologije

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## Selected qualifications

<b>Name of qualification</b>	Doktor znanosti/doktorica znanosti s področja senzorske tehnologije
<b>Translated title (no legal status)</b>	Doctor of Philosophy in the field of sensor technology
<b>Type of qualification</b>	Doktorat
<b>Category of qualification</b>	Izobrazba
<b>Type of education</b>	Doctoral education
<b>Duration</b>	3 years
<b>Credits</b>	180 credits

## Admission requirements

Anyone who has completed the following can enroll in the doctoral study programme:

- second level study programme,
- uniform master's study programme, if it is evaluated with 300 credit points,
- the current (non-Bologna) study programme for obtaining a university education.

Graduates of existing study programmes for the acquisition of specialization, who have previously completed a professional higher programme, must complete study obligations in the amount of 30 credits of individual research work in order to enroll in third-cycle study programmes.

Graduates of previous study programmes for obtaining a master's degree or specialization after completing the study programme for obtaining a university education are recognized in the third-level doctoral study programme for study obligations in the amount of 60 credit points. Upon enrollment, such a candidate is individually assigned compulsory supplementary examinations in the amount of up to 24 credit points by acquiring the comprehensive necessary entry knowledge. These exams are determined from the set of subjects of the doctoral study programme. The sum of all collected credits from compulsory supplementary examinations, individual research work, seminar for the second and third year and any elective courses of one's choice is 120 ECTS, so that the candidate collects 180 ECTS together with 60 ECTS of recognized obligations.

## ISCED field

Field  
Tehnika, proizvodne tehnologije in gradbeništvo

## ISCED subfield

subfield interdisciplinarnie izobraževalne aktivnosti/izidi, pretežno tehnika, proizvodne tehnologije in gradbeništvo

## Qualification level

SQF 10  
EQF 8  
Third level

## Learning outcomes

Qualification holders are qualified to:

General competences:

- mastering the methods and techniques of scientific research,
- ability for independent and group research and development work,
- ability to apply knowledge in practice, which is demonstrated by working on applied projects in industry,
- ability to solve problems in the transfer and adaptation of new technologies into production,
- ability to engage in international research and development work,
- ability to perform managerial functions in the field of business, management, research management and research management.

## Subject-specific competences:

- dissemination and deepening of scientific content, methods and techniques in selected fields of natural sciences, technologies, engineering and informatics, which will support strategic selection, development, transfer, optimization, exploitation and control of selected sensor technologies for greater business efficiency while satisfying wider societal interests. Sustainable Development,
- acquiring top knowledge and developing the ability to use it to improve the efficiency of work and decision-making processes,
- development of an integrated way of thinking that goes beyond individual areas and develops the ability to communicate with experts from other disciplines and fields,
- comprehensive problem definition, systemic approaches and solving complex problems in group work,
- uncertainty decision-making and long-term strategic planning.

## 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

For the progression from the first to the second year, the student must collect at least 75% (i.e. at least 45 ECTS credits) from the first year.

A student who has obtained at least 60 additional credit points in addition to the above condition may enroll in the third year.

The student can apply for the topic of the doctoral dissertation when he / she has completed individual research work for the first year and other examination obligations in the total amount of 45 ECTS.

## Condition for obtaining certificate

The candidate completes the doctoral study after completing the following obligations:

- perform all obligations in compulsory and elective subjects,
- publishes or has accepted for publication at least two works in international scientific publications or patents, of which at least one in a journal included in SCI or in the Web of Science, with an impact factor,
- after fulfilling the obligations from the first two points, the student successfully defends his doctoral dissertation.

The doctoral dissertation must be an independent and original contribution to a scientific discipline.

## Awarding body

Jožef Stefan International Postgraduate School

URL

<https://www.mps.si/en/studij/bolonjski-studij-tretje-stopnje/senzorske-tehnologije/>

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