

PhD in nuclear engineering

Slovenia is producing a significant share of its electricity in nuclear power plant. The doctoral programme of nuclear engineering originates in the requirements of the Nuclear power plant Krško, Slovenian Nuclear Safety Administration, Agency for Radioactive Waste Management and other organisations in the nuclear area. The Nuclear Engineering module topics are: nuclear technology, operation, nuclear safety, reactor physics, environmental issues, radioecology and other topics of nuclear engineering.

The doctoral programme is based on research activities of scientists of Jožef Stefan Institute and the Chair for Nuclear Engineering at the Department of Physics of the Faculty of Mathematics and Physics.

Enrolment

All students with a master degree in the fields of STEM (science, technology, engineering and mathematics) are kindly invited to enrol.

Tuition fee

The tuition fee for the whole four years of studies amounts to 14,200.00 € for students, who first enrolled in the school year 2019/20. The program is recommended to everyone, who as a part of their work deals, or will deal with nuclear energy or nuclear technology. It is expected that the tuition fee will be covered by the organisation that employs the student.

Programme

The doctoral study programme lasts for four years and comprises of 240 credit points. The student needs to collect 60 credit points in the form of organised teaching. The student collects the remaining 180 credit points with individual research for the doctoral

dissertation. To successfully finish the programme, the student needs to have at least one scientific article in the field of PhD accepted or published in one of the preselected journals.

Advancement

To enrol into 2nd year, the student must make a successful presentation of the theme of doctoral dissertation and must collect at least 48 ECTS from organized forms of study.

For enrolment into the third year, the student must collect at least 90 ECTS, of which 60 are required to be from organized forms of study (the compulsory course for the selected module, elective courses, courses from external study programmes, international summer schools, ...). In addition, prior to enrolment in the third year of study, the opinion of Commission for monitoring the doctoral student (KSDŠ) that the dissertation topic is suitable for a doctoral dissertation must be confirmed by the Senate of the Faculty (UL FMF). For enrolment into the fourth year of study, the student must meet all study requirements for the first three years, and obtain approval of the subject of the doctoral dissertation from the Senate of UL.

More information about the programme and conditions can be found at the following address:



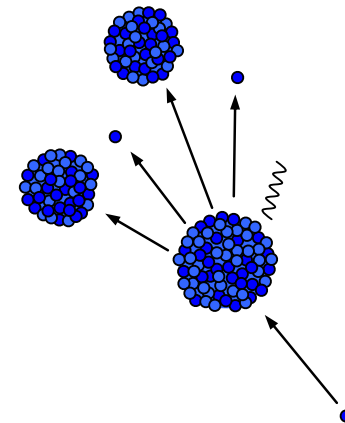
<http://www.fmf.uni-lj.si/en/study-physics/physics-III-cycle/>

Studying abroad

In the framework of doctoral programme it is possible to choose subjects and obtain ETCS at universities which are part of the European Nuclear Engineering Education Network – ENEN. More information is available at the web page of ENEN.



<http://www.enen-assoc.org>



Subjects of Nuclear Engineering module

Group A: compulsory subjects

Topics in Reactor Physics and Engineering

Course leader: prof. dr. Iztok Tiselj

12 ECTS

Group B: elective courses

Specialized Seminar on Nuclear Physics and Engineering

Course leader: prof. dr. Luka Snoj

12 ECTS

Summer schools and other organized education

6 ECTS = approximately 40 hours of summer school.

Other organized forms of study:

Individual study

9 ECTS

Points are awarded by supervisor.

Preparation and presentation of dissertation theme

15 ECTS

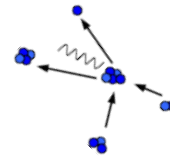
Seminar

6 ECTS - Monday 16:15 seminars at Department of Physics at Faculty of Mathematics and Physics

Individual research work

180 ECTS:

- 1st year: 12 ECTS,
- 2nd year: 48 ECTS,
- 3rd year: 60 ECTS,
- 4th year: 54 ECTS,
- Dissertation and the defence: 6 ECTS.



Student office:



University of Ljubljana
Faculty of Mathematics and Physics
Jadranska 19
1111 Ljubljana
Slovenia

Tel: +386 1 476 6517

+386 1 476 6502

Fax: +386 1 251 7281

e-mail: fizika@fmf.uni-lj.si

Working

hours: Monday – Friday 10:00 a.m.–12:00 p.m.

Chair for Nuclear Engineering:



prof. dr. Iztok Tiselj

iztok.tiselj@ijs.si

<http://www.fmf.uni-lj.si/en/directory/6851/>

University of Ljubljana
Faculty of *Mathematics and Physics*



Doctoral programme mathematics and physics
(3rd Cycle programme)

Subprogramme:

Physics

Module:

NUCLEAR ENGINEERING

School year 2019/20

Ljubljana

Member of



<http://www.enen-assoc.org>