

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 three years of studies amounts to 10,500.00 € for students, who first enrolled in the school year 2016/17. 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 three years and comprises of 180 credit points. The student needs to collect 60 credit points in the form of organised teaching. The student collects the remaining 120 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 is required to finish the main subject of the module (subject from group A), collect at least 48 ECTS from organised forms of study, choose the advisor for the dissertation and successfully present the theme of the dissertation.

To enrol into 3rd year, the student has to collect all of 60 ECTS from organised forms of study (compulsory module course, selective courses, individual study, dissertation preparation and presentation of disposition, compulsory seminar). In addition, the student also needs to collect at least 30 ECTS from other forms of organized study from 1st and 2nd year. To enrol into the 3rd year, the student also needs the approval of the dissertation theme by the Senate of the university.

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



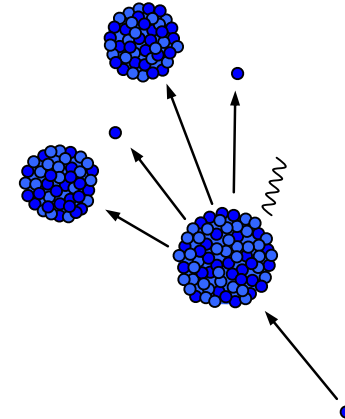
<http://www.fmf.uni-lj.si/en/study-physics/physics-III-cycle/>

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: asst. 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

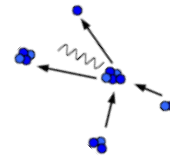
Seminar

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

Individual research work

120 ECTS:

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



Student office:



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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 2017/18

Ljubljana

Member of



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