SYLLABUS OF THE CHEMICAL ENGINEERING AND APPLIED CHEMISTRY DOCTORAL STUDY PROGRAMME

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Doctoral study programme
Chemical Engineering and Applied Chemistry

- **Holder of doctoral study programme:**
  - University of Zagreb, Faculty of Chemical Engineering and Technology

- **Scientific area:**
  - Technical Sciences (Chemical Engineering field)
  - Natural Sciences (Chemistry field)
Syllabus of the doctoral study programme

- duration: 3 years
- overall: 180 ECTS
  
  - Doctoral dissertation (120 ECTS)
  - Courses (2 mandatory + 3 elective, 30 ECTS overall)
  - Public Defence of the Dissertation Topic (5 ECTS)
  - Other compulsory forms of activities (13 ECTS)
  - Non-compulsory forms of activities

- Selection of courses and other forms of activities are determined by the dissertation topic!
- Public defence of the dissertation topic
  1. The candidate proposes the topic and the mentor – Dr.Sc.01 form, Committee proposal form
  2. The faculty council appoints the Committee (3 or 5 members) and suggests the mentor
  3. Based on the public defence the Committee evaluates the topic – Dr.Sc.02 form
  4. The Faculty Council accepts the evaluation and the mentor – Dr.Sc.03 form
  5. Evaluation by the University Council of the Area of Technical (or Natural) Sciences
  6. The Senate of the University of Zagreb accepts the topic and the mentor
- Other compulsory forms of activities

- **Document:**
  
  There is a document (in Croatian) on assigning ECTS credits for other compulsory forms of activities (in the web pages of the doctoral study programme)
Discussion group (2 ECTS)

- presentation of a literature review of research results from the field that will be covered in the doctoral thesis, lasting at least 30 minutes, in front of the members of the discussion research group and all interested parties

- documented by the invitation to the event, the presentation itself, the attendees' signatures, a list of questions from the audience and written answers to the questions

Research seminar (2 ECTS)

- presentation of own research results lasting at least 30 minutes before the members of the research group and all interested parties

- documented by the invitation to the event, the presentation itself, the attendees' signatures, a list of questions from the audience and written answers to the questions
Workshops that develop transferable or generic skills (2 ECTS)

- a university-level workshop, i.e. it is intended for doctoral students with appropriate learning outcomes
- the doctoral student has actively participated in the activities of the workshop
- documented with an invitation to the workshop, which should contain a short description of the workshop, learning outcomes and ways of checking them

Research article published in a journal cited in Web of Science database (5 ECTS)

Participation in a scientific conference with a research report (2 ECTS)
- Other non-compulsory forms of activities

- **Document:**
  There is a document (in Croatian) on assigning ECTS credits for non-compulsory forms of activities (in the web pages of the doctoral study programme)

**Additional elective course** (6 ECTS)
- Only one additional course is allowed
Research article published in

- in journals cited in Web of Science database (5 ECTS)
- in journals cited in other databases (3 ECTS),
- in reviewed proceedings from the scientific conferences (2 ECTS)

Research visit (1 ECTS/month)

- implies a minimum one-month stay in other institutions (1 ECTS point for each month of stay)
- documented by the host's statement about his/her stay at another institution and a brief description of the research activities carried out
Summer (or winter) school (2 ECTS)

- documented by an invitation to the school, which should contain a brief description of the school program, learning outcomes and ways of checking them
- documented by a certificate issued by the organiser
The student has to collect at least 25 ECTS credits by the compulsory and non-compulsory forms of activity

- 13 ECTS credits by the compulsory forms
- $25 - 13 = 12$ ECTS credits collected by the non-compulsory forms which could be replaced by credits collected by the additional activity in performing compulsory forms
Example of a flowchart of compulsory forms of activity at the doctoral study programme
The procedure for recognising ECTS credits

1. upon completion of a certain activity, the student submits a request for the recognition of ECTS points for other compulsory and optional activities
   - typically 3 months upon completion date
   - for the recognition of ECTS credits based on the publication of research papers and participation in conferences, the application is submitted after acceptance of the doctoral topic
   - the request is addressed to the Council of the Doctoral Study Programme and submitted to the student office (pds@fkit.hr)

2. The Council of the Doctoral Study Programme accepts the requests and recognises ECTS points