University of Zagreb
Faculty of Civil
Engineering

Ordinance on the Doctoral Study of Civil Engineering at the University of Zagreb Faculty of Civil Engineering

Pursuant to Article 38 of the Statute of the University of Zagreb, Article 28 of the Regulations on Doctoral Studies at the University of Zagreb, in conjunction with Articles 57 and 62 of the Act on Higher Education and Scientific Activity (Official Gazette no. 119/22), the Faculty Council of the University of Zagreb Faculty of Civil Engineering at its 252nd regular session held on 26 March 2025 has adopted the following

ORDINANCE
ON THE
DOCTORAL STUDY
OF CIVIL ENGINEERING
AT THE UNIVERSITY OF ZAGREB FACULTY OF CIVIL ENGINEERING

1. GENERAL PROVISIONS

Article 1

Subject of the Ordinance on the Doctoral Study

(1) This *Ordinance on the Doctoral Study of Civil Engineering at the University of Zagreb Faculty of Civil Engineering* (hereinafter: the Ordinance) regulates the implementation of the postgraduate study for acquiring a *doctoral degree* (hereinafter: the Study) at the University of Zagreb Faculty of Civil Engineering (hereinafter: the Faculty), matters pertaining to enrolment into the Study, the status, rights and obligations of students (hereinafter: Doctoral Candidates), rights and obligations of study advisors and mentors, instruction, research and duration of the Study, application procedure, evaluation and defence of the doctoral thesis, award and revocation of the doctoral degree, means for the measurement of quality, and other matters pertaining to the organisation and implementation of the Study.

(2) Expressions used in this Ordinance are gender neutral and refer equally to the female and male gender.

(3) The provisions of the Regulations on Doctoral Studies at the University of Zagreb and the Act on Higher Education and Scientific Activity shall apply accordingly to all matters that are not regulated by this Ordinance.

Article 2

Scientific Area, Research Branches, and Academic Degree

(1) The Study is offered within the scientific area of Technical Sciences, field of Civil Engineering (research branches: Geotechnics, Engineering Structures, Hydro Engineering, Transportation

Engineering, Construction Management) and the field of Fundamental Technical Sciences (research branches: Materials and Engineering Mechanics).

(2) The academic title acquired at the end of the Study is *PhD in the scientific area of Technical Sciences.*

Article 3

Definitions of Terms

(1) Terms within the meaning of this Ordinance are defined as follows:

- An Applicant is a person who submitted an application for the Study.
- A Doctoral Candidate is a student of the Study, i.e., a person who enrolled into the Study.
- A Study Advisor is an employee of the Faculty holding a scientific-teaching rank who provides assistance to the Doctoral Candidate in the course of the Study. The requirements and obligations of a Study Advisor are specified in Article 8 of this Ordinance.
- A Mentor is a person holding a scientific-teaching rank who is mentoring the Doctoral Candidate during the preparation of the doctoral thesis. The requirements and obligations of a Mentor are specified under Article 7 of this Ordinance.
- The Committee for Science and International Cooperation (hereinafter: the Committee) is the Study's governing body.
- The Vice Dean for Science and International Cooperation is ex officio the Head of the Study. The obligations of the Head of the Study are specified under Article 5 of this Ordinance.
- The Head of Research Branch is an employee of the Faculty holding a scientific-teaching rank, who is also a teacher of the Study. The requirements and obligations of the Head of Research Branch are specified under Article 6 of this Ordinance.
- The Student Affairs Office of the Study is the Faculty's service in charge of administrative and general affairs of the Study.
- The Committee for the Evaluation of the Thesis Proposal and Mentor Proposal, the Thesis Evaluation Committee and the Thesis Defence Committee will be formed of three or five members, with at least one member of the three-member committee, i.e., at least two members of the five-member committee, being neither teachers of the Study nor employees of the Faculty, but preferably employees of another Croatian or foreign university or a related institution.

  A person can be appointed as Member of the aforementioned committees if he/she is:

  a) a person holding at minimum the scientific-teaching rank of assistant professor, or

  b) a person holding at minimum the scientific rank of a research associate, or

  c) a person who holds a nominal rank or a rank acquired in a foreign country that is equivalent to the rank referred to in point a) and b) of this item, or

  d) a person holding a PhD degree who is an active scientist and researcher within the area of research of the thesis (with justification thereof).

  The Mentor must not be a member of these committees.

- A related study is a doctoral study in the field of Civil Engineering and the field of Fundamental Technical Sciences that is offered at the University of Zagreb or other universities.

2. PROVISIONS ON THE DOCTORAL STUDY

2.1. Bodies of the Study

Article 4

Faculty Council and the Committee for Science and International Cooperation

(1) Decisions regarding the Study, upon the Committee's proposal, shall be adopted by the Faculty Council (hereinafter: the Council), as the competent body.

(2) The Committee shall propose to the Council decisions pertaining to the Study, especially the adoption of decisions pertaining to the appointment of the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal, as well as the appointment of the Thesis Evaluation Committee, the Thesis Defence Committee, and the adoption of the reports of the aforementioned committees.

Article 5

The Head of the Study

(1) Basic responsibilities of the Head of the Study are as follows:

- organisation and implementation of the Study,
- implementation of the classification procedure in cooperation with the Heads of research branches,
- proposal of the Study syllabus to the Committee,
- monitoring of instruction and the success of implementation of the Study,
- other activities relevant to the Study.

(2) On the basis of records of the Student Affairs Office and the Heads of research branches, the Head of the Study shall compose annual reports and inform the Council thereof once per annum for the purpose of the Study's self-evaluation and is responsible for the accreditation and re-accreditation of the Study.

Article 6

Head of the Study's Research Branch

(1) The Head of Research Branch shall be appointed, at the proposal of the Head of Department, by the Council for a three-year period. The same person may be re-appointed as Head of Research Branch several times.

(2) The basic responsibilities of the Head of Research Branch include the following:

- implementation of the study programme of the Study's research branch,
- implementation of the classification procedure, in cooperation with the Head of the Study, for Applicants of the Study's research branch,
- participation in the organisation and implementation of compulsory and elective forms of work of the Study's research branch,
- monitoring of instruction, coordinating the work of Study Advisors/Mentors and ensuring the successful performance of the Study's research branch,
- proposing differential exams for Applicants of the Study's research branch to the Committee,
- proposing Study Advisors for Applicants of the Study's research branch to the Committee,
- proposing the change of the Study Advisor for Applicants of the Study's research branch

to the Committee,
- organising Discussion Groups for Applicants of the Study's research branch,
- other activities relevant to the Study's research branch.

(3) Based on the responsibilities referred to in the previous paragraph, reports once per annum (at the end of the academic year) to the Head of Study and the ECTS Coordinator.

Article 7

Mentor

(1) A person can be appointed as Mentor if he/she:

- is elected to at least the scientific-teaching rank of assistant professor, or
- holds a nominal rank equivalent to the rank referred to in the previous subparagraph, or
- holds a rank acquired abroad that is equivalent to a scientific-teaching rank, or
- holds the honorary title of professor emeritus, or
- is a Full Member of the Croatian Academy of Sciences and Arts.

(2) In addition to fulfilling the requirements under paragraph 1 of this Article, a Mentor must be an active scientist within the area of research of the doctoral thesis, with published scientific papers within the last five years.

(3) The Mentor appointment proposal shall be adopted by the Council, at the proposal of the Committee. The initial Mentor appointment proposal, with a written acceptance of the prospective Mentor, shall be submitted by the Doctorate Candidate at the time of submission of the topic of the doctoral thesis. The decision on Mentor appointment shall be adopted by the Senate of the University of Zagreb.

(4) Prior to assuming the first mentorship duty, the Mentor has an obligation to attend a mentorship workshop organised by the University's constituent units or recognized international schools is mandatory.

(5) The Mentor provides assistance to the Doctoral Candidate during the Study, monitors the Candidate's work and achievements. The Mentor shall report to the Head of Research Branch on the fulfilled obligations, published scientific papers, scientific projects in which the Doctoral Candidate and Mentor participate, and training and progress of each Doctoral Candidate.

(6) In order to ensure the quality of a doctoral thesis, dual mentorship is allowed should a need therefore arise (interdisciplinary nature of research, conducting research in multiple scientific organisations, etc.).

(7) Should multiple Mentors be appointed, the Mentor who is the Faculty's employee shall assume responsibility for the activities referred to in the previous paragraph, and each Mentor shall assume responsibility for a predetermined part of research and the process of preparing the doctoral thesis.

(8) Should two Mentors be appointed, the Mentor who is not the Faculty's employee shall sign an agreement on cooperation and assumption of responsibility with the Faculty in accordance with the University's form.

(9) The Mentor shall submit an Annual Mentor's Report on the Doctoral Candidate's work once per annum to the Committee on the University's appropriate form (Form DR.SC.-05).

(10) Teachers of the Faculty may be mentors at other Universities provided they have the Council's permission.

(11) A Study Advisor or Mentor may submit a request to be relieved of their duty to the Council

based on a negative Report on the Doctoral Candidate's work referred to under paragraph 9 of this Article.

(12) Mentors who were appointed to a Mentorship position before their retirement are entitled to complete their Mentorship duty, upon submitting a request and subject to approval of the Council. After retiring, Mentors shall sign an agreement on cooperation and assumption of responsibility with the Faculty.

(13) Doctoral Candidates have the right to change the Mentor or the proposed topic of doctoral research, upon a written request and statement of the former Mentor. The request shall be submitted on the University's form (Form DR.06). The Council and Senate shall decide on the request, upon the Committee's proposal.

Article 8

Study Advisor

(1) At the enrolment into the Study, the Committee shall appoint a Study Advisor to the Doctoral Candidate upon the proposal of the Head of Research Branch.

(2) The Study Advisor is the Faculty's employee who monitors the Doctoral Candidate's work and achievements and creates a work plan together with the Doctoral Candidate (which the institution responsible for conducting the Study stores in the portfolio), which also includes the selection of elective courses.

(3) The Study Advisor performs the aforementioned tasks until the appointment of a Mentor.

2.2. Structure of the Study

Article 9

Composition and Forms of Work

(1) The Study is organised according to the ECTS credit system and is offered in Croatian and English. 180 ECTS credits are obtained upon the completion of the Study.

(2) The Study is composed of *instruction, obligatory forms of work, elective forms of work, the preparation and defence of the doctoral thesis.* The forms of work in the Study with pertaining ECTS credits are listed in Table 1 in the Annex to this Ordinance and form an integral part thereof.

Article 10

Duration of the Study, Doctoral Candidate Status and Suspension of Obligations

(1) The duration of the Study is three years.

(2) At the beginning of each academic year, Doctoral Candidates must regulate their status by enrolling into the next year of study, by repeating the study year, or by registering the suspension of study.

(3) Doctoral Candidates have the right to complete the Study under the same conditions under which they enrolled within six years. This six-year period does not include the period of suspension of rights and duties for a justified reason (pregnancy, maternity, parental and adoption leave, prolonged illness, other justified and reasoned cases, in accordance with the provisions of the Statute of the University of Zagreb and the Statute of the University of Zagreb

Faculty of Civil Engineering).

(4) The request for suspension of Study, with accompanying documents, is to be submitted to the Head of Study within 15 calendar days from the date of occurrence of the reason for suspension of obligations. The Committee discusses on the submitted requests. The Head of Study and the Committee are not obliged to consider requests that were not submitted within the specified period.

(5) The registration of Study suspension in a specific academic year is subject to previous approval upon a reasoned request.

2.3. Enrolment into the Study

Article 11

Call for Applications

(1) Applicants apply for the Study through a public call for applications which, upon the Council's decision, at the proposal of the Committee, is announced by the Faculty and published on the website no later than 1 May of the current year.

(2) The text of the call for applications is written in Croatian and English, and contains the following:

- prerequisites for enrolment into the Study,
- a list of all documents required for enrolment,
- a list of research branches in which the Study is offered and the number of students admitted,
- deadline for submitting applications,
- tuition fees.

(3) Applications are submitted to the Faculty's clerk's office by email. The Student Affairs Office delivers the submitted applications to the Head of Study and the Heads of research branches.

Article 12

Enrolment Requirements

(1) The Study may be attended by Applicants who have:

- completed a university graduate, university integrated undergraduate and graduate, university specialist and university undergraduate study according to previous regulations of Civil Engineering and obtained at least 300 ECTS credits, with a minimum average grade of 3.5,
- completed a university graduate, university integrated undergraduate and graduate, university specialist, and university undergraduate study according to previous regulations in the area of technical sciences and obtained at least 300 ECTS credits, 60 ECTS credits of which from courses within the field of civil engineering, with a minimum average grade of 3.5,
- obtained a master of science degree in the area of technical sciences, field of civil engineering.

(2) By way of exception, Applicants who have not obtained the required average grade may enrol into the Study if they obtain recommendation letters by three teachers of the Study and

authorship or co-authorship in at least one published peer reviewed scientific paper.

(3) Applicants must be proficient in English (B2 level) or have passed an English language exam in the previously completed studies referred to under paragraph 1 of this Article.

(4) The Faculty shall sign an agreement on studying with the Applicant, defining the status of the Doctoral Candidate, mutual rights and obligations, as well as the amount and terms of payment of tuition fees, and the rules for handling copyrighted works in accordance with the regulations governing copyright and related rights. During the course of the Study, it is possible to change the source of financing the Study. In that case, the Doctoral Candidate shall sign an annex to the agreement on studying with the Faculty.

Article 13

Classification Procedure

(1) After the Applicant's submission of application, a classification procedure is carried out determining the fulfilment of the requirements. In the course of the classification procedure, the Applicant's success in previous studies, the attainment of the prescribed ECTS credits, previously published scientific papers, and the fulfilment of other enrolment criteria are evaluated. The interview with the Applicant is an integral part of the classification procedure.

(2) The classification procedure shall be carried out by the Head of Study in cooperation with the Head of Research Branch into which the Applicant seeks to enrol.

(3) Upon completion of the classification procedure, the Head of Study shall create a ranking list of Applicants according to the evaluation results. The Committee shall discuss the evaluation results of the classification procedure, on the basis of insight into Applicants' applications and written reports by the Heads of research branches.

(4) Upon the proposal of the Head of Study and Head of Research Branch, the Committee shall establish differential courses for acquiring fundamental knowledge required for attending and completing the Study for Applicants who have not obtained 60 ECTS credits in the field of civil engineering and for Applicants who obtained less than 30 ECTS credits within the research branch they wish to enrol into at the Study. Differential exams do not count towards the workload of the Study and Applicants are required to pass them until enrolment into the second year of Study.

2.4. Obligations of Doctoral Candidates of the Study

Article 14

Fundamental Obligations of Doctoral Candidates

(1) Doctoral Candidates shall create an activity plan at the beginning of each academic year and submit a report on their work (form DR.-04) to the Committee once per annum. In the course of the Study, Doctoral Candidates must obtain at least 180 ECTS credits, 30 ECTS credits of which through instruction, 21 ECTS credits through obligatory forms of work, and 14 ECTS credits through elective forms of work. All activities pertaining to the preparation and defence of the doctoral thesis count towards a total of 115 ECTS credits, Table 1.

(2) The approved doctoral thesis proposal is evaluated with 13 ECTS credits, the positively evaluated, i.e., accepted doctoral thesis is evaluated with 80 ECTS credits, and the successful defence of the doctoral thesis is evaluated with 12 ECTS credits, Table 1.

(3) Prior to the defence of the doctoral thesis, and in the course of the Study, Doctoral Candidates

must have at least one scientific paper that is published or accepted for publication, thematically related to the doctoral thesis, in which they are the first author, in a journal indexed in the *Web of Science Core Collection and/or Scopus* databases. One paper, with the exception of a case of extraordinary scientific achievements, can qualify only one Doctoral Candidate and cannot qualify for other mandatory or elective forms of work. A paper that is published or accepted for publication is awarded with 10 ECTS credits.

(4) A Doctoral Candidate may be qualified only by a scientific paper that is published or accepted for publication, provided the name of the Faculty and the official email address of the Doctoral Candidate are indicated, whereby the Doctoral Candidate may also indicate other institutions.

(5) In order to avoid any misunderstandings between the publisher and the author of the work, the Doctoral Candidate is obliged, in the contract with the publisher, to ensure the application of the provisions of regulations governing copyright and related rights, as well as the application of the provisions of regulations governing the field of higher education and scientific activities.

Article 15

Obligations and Rights of Doctoral Candidates with Disabilities

(1) Doctoral Candidates with disabilities may study according to accommodated study conditions, in accordance with the agreement on studying or another general act of the Faculty.

(2) Doctoral Candidates with disabilities are all students who, due to illness, impairment or a disorder, regardless of the percentage of physical impairment or the type and severity of disability – impairment of functional abilities, as determined by expert examination, have permanent, occasional or temporary difficulties in performing everyday academic activities (students with visual and hearing impairments, motor disorders, chronic diseases, ADHD, autism, mental illnesses and disorders and specific learning disorders (dyslexia, dysgraphia, dyscalculia), and with other health conditions and difficulties that may affect their studies). Health conditions, difficulties or impairments are determined by a decision on the percentage of physical impairment issued by the competent body or by an assessment and opinion on the type and severity of disability – impairment of functional abilities, determined by expert examination, as well as other relevant documentation in accordance with the procedure established by the general act of the University or the Faculty.

(3) In the implementation of curricular and extracurricular activities, the Faculty will take care to respect the principle of inclusiveness and to ensure the availability of study materials taking into account the different needs of Doctoral Candidates with disabilities.

(4) Study accommodations include adjusting the teaching and examination process without compromising academic standards in accordance with the established learning outcomes that are the same for all Doctoral Candidates.

(5) Study accommodations for Doctoral Candidates with disabilities can include:

- extended time for written exams,
- adapted printed teaching materials (larger letters and spacing, etc.),
- digitalized literature,
- support provided by another person (peer support, sign language interpreter, etc.),
- using assistive technology, and
- other accommodations in accordance with the general act of the Faculty or the University.

2.5. Instruction at the Study

Article 16

Instruction and Workload

(1) Instruction at the Study is carried out according to the syllabus published on the Faculty's webpage in the Croatian and English language.

(2) Doctoral Candidates must earn a minimum of 24 ECTS credits from instruction by passing elective courses.

(3) A maximum of 36 ECTS credits may be obtained through instruction, by passing four elective courses that are worth 6 ECTS credits each, by passing the mandatory course Methodology of Scientific Research (6 ECTS credits), and exceptionally by passing one more elective course (6 ECTS credits).

(4) In consultation with the Study Advisor, Doctoral Candidates may also enrol into courses from other Studies which are not offered by the Study they enrolled into (not exceeding 8 ECTS credits). The enrolment into courses is subject to the Committee's approval, with the approval of the ECTS coordinator of the scientific and research institution at which the chosen course is offered and the course instructor of the chosen course. A special certificate is issued on the granting of approval, which states the name of the course and the credits awarded by the course (number of ECTS credits), as well as the method of recognition of credits earned within the main study.

(5) In consultation with the Study Advisor, Doctoral Candidates may conduct research at other constituents of the University of Zagreb and other scientific and research institutions.

2.6. Examinations and Other Forms of Evaluation

Article 17

Regular Examinations and Assessment

(1) The students' achieved learning outcomes are assessed and evaluated in the course of instruction and by exams and are recorded in the appropriate document and student records. The instruction of the course enrolled ends with a passing grade on the exam.

(2) The success obtained by Doctoral Candidates at examinations and other forms of evaluation shall be expressed using the following grades: excellent (5), equivalent to the letter grade A; very good (4), equivalent to the letter grade B; good (3), equivalent to the letter grade C; sufficient (2), equivalent to the letter grade D. The Student Affairs Office shall keep permanent records about the examinations.

(3) It can be specified in the syllabus that some forms of instruction can be conducted without grading, or that they are evaluated by descriptive grades, or that the final grade can be determined through assessment and grading during the instruction, or that grades obtained by Doctoral Candidates in specific forms of instruction count towards the Doctoral Candidates' final grade for a particular course attained at examination and/or other forms of evaluation. The teacher conducting instruction of a course, in accordance with the syllabus, has the right to test and assess the knowledge of Doctoral Candidates in any form of instruction. Courses that are evaluated descriptively do not count towards the average grade of the Study.

(4) Only Doctoral Candidates who have fulfilled all requirements specified in the syllabus will be allowed to take examinations. Examinations can be theoretical and practical, and they are taken either in written form only, in oral form only, or in both written and oral forms, or through creation/presentation of practical work. Oral examinations are public. The entire exam must be completed within no more than five working days.

(5) Doctoral Candidates have the right to see the results of the exam or part of the exam taken in written form.

Article 18

Retaking of Exams

(1) If a Doctoral Candidate is not satisfied with the grade obtained during examination, he/she has the right to take the examination in front of a commission, provided that he/she has submitted a written application for re-taking the exam to the Student Affairs Office within 24 hours after being informed about the grade.

(2) This repeated exam shall be organised within three days following the submittal of the Doctoral Candidate's application. The Head of Research Branch shall appoint a three-member commission for this exam. The course instructor shall be one of the commission members but may not be its chair. At least one of the commission members must be a teacher of another course of the Study. The commission shall make a decision by majority vote.

(3) A written test or a written part of the exam shall not be re-taken in front of the commission, but it will be graded once again by the commission. The commission shall keep minutes of the exam, which must include the final decision about the grade. The minutes of the exam shall be submitted to the Committee.

2.7. Mandatory Forms of Work

Article 19

Research Seminars and Discussion Groups

(1) In order to develop research work, adopt scientific methodology and critical thinking, and develop and acquire other general skills, mandatory forms of work such as Research Seminars and Discussion Groups are established.

(2) The Research Seminar includes the preparation of a scientific paper and public presentation of a broader or narrower area of the topic of doctoral research, the course of preparation of the doctoral thesis, conducted research and research results by participation at the symposium organised by the Faculty within the Study. The Seminar is organised by the Head of Study, Heads of research branches and teachers. They are organised during all three years of the Study and the attendance at these seminars are worth 16 ECTS credits at the first year of studies, while 1 ECTS credit is gained in the second and third year of studies. During the first year, the Doctoral Candidate is obliged to prepare a paper and present it at a Research Seminar. The paper that qualifies for a research seminar cannot qualify for elective forms of work. By way of exception, in case of the Doctoral Candidate's impediment, participation in a scientific conference can be eligible for the research seminar.

(3) A Discussion Group is an activity in which Doctoral Candidates present and discuss with their Mentors or Study Advisors, as well as with the Heads of research branches, interested teachers and Doctoral Candidates, their research activities, achievements, results, problems, give an

overview of the latest literature thematically related to the field of research, or discuss similar topics related to current and future research, etc. Discussion Groups are organised by Heads of research branches and must be attended by the Study Advisor or Mentor together with the Doctoral Candidate. The Head of Research Branch creates a report on the Discussion Group held. The Discussion Group is worth 1 ECTS credit in each year of the Study.

(4) Obligatory forms of work are offered throughout the entire study year, and a total of 21 ECTS credits has to be achieved through them.

(5) ECTS credits for forms of work referred to in paragraph 1 of this Article are recorded by the ECTS coordinator at the end of the academic year based on the report of the Head of Research Branch.

2.8. Elective Forms of Work

Article 20

Elective Forms of Work

(1) Elective forms of work include: publication of scientific papers, enrolment in an additional course, training at other scientific organisations, summer schools, or other appropriate workshops either at the University or at other scientific organisations. The conditions for the recognition of elective forms of work are defined in more detail in Table 1 of the Annex to this Ordinance.

(2) The evaluation of published scientific papers for elective forms of work is carried out in accordance with the following categories of papers:

- category A of scientific papers includes papers published in journals indexed in the *Web of Science* and/or *Scopus* database,
- category B of scientific papers includes papers published in scientific journals that are represented in other bibliographic databases outside the *Web of Science* and/or *Scopus* database,
- category C of scientific papers includes papers published at international or domestic scientific conferences.

(3) One published scientific paper, with the exception of a case of extraordinary scientific achievements, can qualify only one Doctoral Candidate. The paper that is qualifying for an elective form of work cannot qualify for the Research Seminar, a mandatory paper published in a journal or doctoral thesis according to the so-called *Scandinavian* model.

(4) A workshop, as an elective form of work, with a certificate of participation, includes full-day or multi-day activities of acquiring and perfecting the application of scientific methods (e.g. computer modelling, laboratory testing, monitoring of phenomena in the field, training for working on scientific equipment, etc.), other symposiums of Doctoral Candidates and lectures, with the aim of applying and further developing the methodology of research and scientific work, critical thinking and general competencies within the field of research of Doctoral Candidates and the course of doctoral research. A maximum of 2 ECTS credits can be obtained by this form of work, whereby workshops of a total duration of three days are worth 1 ECTS credit, Table 1.

(5) Summer schools include various activities (lectures, workshops, seminars, knowledge assessment, etc.) through which certain specific knowledge is acquired, which contributes to

the quality of the Doctoral Candidate's research. Summer schools are recognized with a certificate of participation. ECTS credits can be earned by attending a maximum of 2 summer schools, with 1 ECTS credit awarded for summer schools without an exam and 2 ECTS credits for summer schools with an exam, Table 1.

(6) For training carried out in another scientific and research institution during the course of study, lasting a minimum of one month, a maximum of 3 ECTS credits can be recognized regardless of the duration of the training, i.e. 1 ECTS credit for each month of stay.

(7) A minimum of 14 ECTS credits must be achieved through elective forms of work, Table 1. The required ECTS credits must be earned from a minimum of two different activities. A minimum of 4 ECTS credits must be obtained from published scientific papers through one or more published papers.

(8) ECTS credits for the forms of work referred to in paragraph 1 of this Article shall be recorded by the ECTS Coordinator prior to enrolment in the next academic year, based on the opinion of the Study Advisor or Mentor.

2.9. Course of Study

Article 21

Conditions for Enrolment into the Higher Study Year at the Study

(1) To enrol into the second year, Doctoral Candidates are required to pass three courses, one of which being *Methodology of Scientific Research*, obtain a minimum of 17 ECTS credits through mandatory forms of work and a positive report of the Study Advisor or Mentor for the first year of Study (form DR.-05), submit the report on their work for the first year of Study (form DR.-04), and the activity plan for the second year of Study.

(2) To enrol into the third year, Doctoral Candidates are required to pass all course exams, obtain at least additional 2 ECTS credits through mandatory forms of work, initiate the procedure of Mentor appointment and doctoral thesis proposal, and have the Mentor's positive report on the second year of Study (form DR.-05), submit the report on their work for the second year of Study (form DR.-04), and the activity plan for the third year of Study.

(3) During the third year of Study, Doctoral Candidates are required to obtain the remaining ECTS credits through mandatory and elective forms of work.

2.10. Monitoring of Study

Article 22

Evaluation Procedures

(1) Doctoral Candidates are obliged to submit a report on their work to the Committee once per annum, with an evaluation of the work of the Mentor or Study Advisor and the Study on the University's form (form DR. -04).

(2) The Study Advisor or Mentor submit a report on the Doctoral Candidate's progress to the Committee once per annum on the University's form (form DR. -05).

(3) In the event that the quality of the Doctoral Candidate's work, assessed by the annual evaluation procedures, is not satisfactory, the Committee may make a decision on the loss of the Doctoral Candidate's right to continue the Study.

(4) Every year, the Committee performs a self-evaluation of the Study based on the reports of the Head of Study and the Heads of research branches by submitting an activity report to the Council on the University's form (form DR.-09).

(5) The Student Affairs Office shall keep comprehensive records of Doctoral Candidates and Mentors in the information system of higher education institutions.

3. THE PROCEDURE OF PREPARATION AND DEFENCE OF THE DOCTORAL THESIS

3.1. Forms and Process of Preparing a Doctoral Thesis

Article 23

Basic Information about the Doctoral Thesis

(1) A doctoral thesis is a public scientific work, subject to public scientific assessment. The doctoral thesis constitutes the dominant part of the Study, and includes research, preparation, and public defence. The Study ends with a successful public defence of the doctoral thesis.

(2) The forms of doctoral thesis include:

- a monograph,
- a set of published scientific papers (the so-called *Scandinavian* model).

(3) The doctoral thesis may be written and defended in the Croatian or English language, should be uniform throughout, which also applies to doctoral thesis made according to the so-called the Scandinavian model, which the Doctoral Candidate decides upon when submitting the doctoral thesis proposal. The format and content of the final version of the doctoral thesis is prescribed by the form of the University of Zagreb (form DR.-08).

(4) All Doctoral Candidates who write their doctoral thesis in English, and whose first language is Croatian, fill out the University's forms bilingually (in Croatian and English). In the event of a discrepancy between language versions, the Croatian version shall be taken into account. Foreign students enrolled in the Study, whose native language is not Croatian, fill in the University's forms in English only.

(5) The course of preparation of the doctoral thesis includes:

- the submittal of the doctoral thesis proposal and the appointment of the Committee for the Evaluation of the Thesis Proposal and Mentor proposal,
- acceptance of the doctoral thesis proposal and Mentor appointment,
- initiation of the assessment procedure of the doctoral thesis and appointment of the Thesis Evaluation Committee,
- assessment of the doctoral thesis and appointment of the Thesis Defence Committee,
- public defence of the doctoral thesis.

Article 24

Doctoral Thesis as a Monograph

(1) The text of the doctoral thesis prepared in the form of a monograph must be original scientific work that contains at minimum the following chapters: *a critical overview of the current state of knowledge in the field of research, the hypothesis and objectives of the work, a description of the methods used in the research, a description of the research with a presentation of the results,* and a *conclusion* from which an undoubted original scientific contribution can be recognized. A

doctoral thesis also contains a *reference list*.

(2) The title, abstract and keywords of the doctoral thesis must be written in both Croatian and English. The abstract should enable understanding of the aim of the thesis, research methods, research results, and conclusion.

Article 25

Doctoral Thesis as a Set of Published Scientific Papers

(1) The *Scandinavian* model of a doctoral thesis is basically a set of unified scientific papers.

(2) Scientific papers that are unified and proposed as a doctoral thesis must form a new completed whole of at least three thematically related papers, published or accepted for publication in journals in the Web of Science and/or Scopus database after enrolment into the Study. The scientific paper nominated under Article 14(3) can be one of the three papers that make up a doctoral thesis according to the Scandinavian model.

(3) The Doctoral Candidate must be the sole or first author of at least two papers, whereby both papers should be published in a journal belonging to the first (Q1) or second (Q2) quartile, at least one of which in a journal with an impact factor greater than the median impact factor of journals in the field of doctoral research, in accordance with the *Journal Citation Report* classification, i.e. the citation report, for the year in which the paper was published or for the last known year.

(4) Combined papers must make a new scientific contribution compared to individual papers.

(5) The doctoral thesis should contain at least the following chapters: a unified overview of relevant research, including the hypotheses and objectives of the thesis, a unified critical review of the results of the doctoral thesis that is considered within the framework of previous relevant research, a unified conclusion from which the undoubted original scientific contribution can be recognized, and a reference list. In the Annex section, papers that are published or accepted for publishing qualifying for the doctoral thesis are attached.

(6) Scientific papers that are qualifying for a doctoral thesis as a set of published scientific papers cannot be previously used to fulfil elective forms of work at the Study and must contain the name of the Faculty, whereby the Doctoral Candidate can also indicate other institutions.

(7) In order to avoid any misunderstandings between the publisher of these papers and the author of the papers that qualify for recognition of a doctoral thesis according to the Scandinavian model, the Doctoral Candidate shall follow the provisions of Article 14(5).

3.2. Submittal, Defence, and Evaluation of the Doctoral Thesis Proposal

Article 26

The Submittal of the Doctoral Thesis Proposal and the Appointment of the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal

(1) The doctoral thesis proposal can be submitted no earlier than the end of the first (I) semester, i.e., upon passing the mandatory course *Methodology of Scientific Research*, and no later than the end of the fourth (IV) semester.

(2) The doctoral thesis proposal is to be submitted on the University's form (form DR.-01) and delivered in digital form to the Faculty's clerk's office. The submittal of the doctoral thesis proposal must be accompanied by the proposed Mentor's consent with the application.

(3) Upon the Committee's proposal (the first session in the procedure of obtaining a doctorate), the Council appoints the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal. The composition of the Committee is prescribed by Article 3.

(4) The Committee for the Evaluation of the Thesis Proposal and Mentor Proposal evaluates the expected scientific contribution, financial and organisational feasibility of the research and proposes a Mentor.

Article 27

Public Defence of the Doctoral Thesis Proposal

(1) After the appointment of the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal, the Doctoral Candidate should hold a public defence of the doctoral thesis proposal. The public defence of the doctoral thesis proposal is held at the Faculty, in front of the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal and other interested persons, in the same language the doctoral thesis will be written in.

(2) By way of exception, when a member of the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal is unable to attend the defence of the doctoral thesis proposal due to justified reasons, that member may be allowed to participate remotely. The exception shall not apply to the chair of the Committee.

(3) The public defence of the doctoral thesis proposal must be held within thirty (30) calendar days from the date of the appointment of the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal.

(4) After the public defence, the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal makes an evaluation and submits a proposal to the Committee on the University's form (form DR.-02) no later than 90 days after the appointment. In the event that the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal returns the doctoral thesis proposal to the doctoral candidate for revision, it has an additional 30 days from the moment of receipt of the revised thesis proposal to make an evaluation and submit a proposal to the competent body. The evaluation and proposal are adopted by a majority vote of the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal. Each member of the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal has the right to a separate evaluation and proposal.

(5) The Council, at the proposal of the Committee, adopts a decision to accept the doctoral thesis proposal and appoints a Mentor for the Doctoral Candidate, i.e. it does not accept a negatively evaluated doctoral thesis proposal, at its first following session, after submission of the proposal of the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal (the second session of the Council in the process of obtaining a doctorate). An integral part of the Council's decision is the form of the Decision on the Approval of the Doctoral Thesis Proposal (form DR.-03).

(6) If the Council approves the doctoral thesis proposal and the proposed Mentor, the draft is proposed for adoption by the Council of the Technical Area according to the instructions of the University. The Council of the Technical Area proposes the doctoral thesis proposal and the Mentor for approval by the Senate. The Senate approves the doctoral thesis proposal and the Mentor at its next session after the submission of the proposal.

(7) In the event of a negative report from the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal, the Doctoral Candidate has the right to repeat the process of submitting the doctoral thesis proposal once. Upon the proposal of the Committee, and based on the report

of the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal, the Council will adopt a decision to reject the doctoral thesis proposal and suspend the procedure for obtaining a doctorate in the event that the Committee for the Evaluation of the Thesis Proposal and Mentor Proposal evaluates the submission of the doctoral thesis proposal negatively for the second time.

3.3. Doctoral Thesis Evaluation Procedure

Article 28

Initiation of the Doctoral Thesis Evaluation Procedure

(1) After acquiring a minimum of 78 ECTS credits, 30 ECTS credits of which through classes, 21 ECTS credits through mandatory forms of work, 14 ECTS credits through elective forms of work and 13 ECTS credits through the approved draft of the doctoral thesis, a completed doctoral thesis and paid tuition fees, the Doctoral Candidate initiates the doctoral thesis evaluation procedure.

(2) Along with the written request for the appointment of the Thesis Evaluation Committee, together with the Statement of Originality, the Doctoral Candidate shall submit a copy of the doctoral thesis in electronic form, at least ten days before the session of the Council at which the Thesis Evaluation Committee is appointed (the third session of the Council in the process of acquiring the doctorate).

(3) The Doctoral Candidate shall submit both the written consent and the opinion of the Mentor on the research carried out and the original scientific contribution made. By obtaining the Mentor's written consent, it is understood that the Mentor is familiar with the results of the verification process of thesis authenticity using authentication software, and that the results of this verification process are acceptable. If the Mentor refuses to give their consent, they must provide a written statement of reasons to the Council within 15 days from the receipt of the written notification about the initiation of the doctoral thesis evaluation procedure. The Mentor's statement of reasons is submitted, upon appointment, to the members of the Thesis Evaluation Committee, who take it into account during the evaluation, and if necessary, they are also provided with forms for the Mentor's annual reports and the Doctoral Candidate's annual progress reports.

(4) The Doctoral Candidate submits the application for the evaluation of the doctoral thesis to the Student Affairs Office, which determines whether the Doctoral Candidate has fulfilled all the necessary obligations for the Study.

(5) Immediately after the appointment of the Thesis Evaluation Committee, the Student Affairs Office publishes the title and abstract of the thesis in Croatian and English on the Faculty's website.

Article 29

Thesis Evaluation Committee and the Evaluation of the Thesis

(1) The Council (the third session of the Council in the process), upon the proposal of the Committee, appoints the Thesis Evaluation Committee In accordance with Article 3 of this Ordinance.

(2) An electronic copy of the doctoral thesis is submitted to the members of the Thesis Evaluation Committee.

(3) Within three months from the date of appointment, the Thesis Evaluation Committee shall submit a report to the Committee and the Council with an evaluation of the doctoral thesis on the University's form (form DR.-10). Each Committee member has the right to submit a separate evaluation.

(4) The Thesis Evaluation Committee prepares a report recommending:

- the acceptance of the doctoral thesis with an explicit statement on the achievement of original scientific contribution, or
- a revision of the doctoral thesis, with a mandatory explanation and deadline for revision, which must not exceed 3 months, or
- the rejection of the doctoral thesis, with a mandatory explanation.

(5) At its first session after the submission of the report (the fourth session of the Council in the process), the Council, upon the proposal of the Committee, makes a decision on the report of the Thesis Evaluation Committee, which may be:

- acceptance of a positive report, after which the Thesis Defence Committee is appointed,
- acceptance of the report of the Thesis Evaluation Committee requesting a revision of the doctoral thesis, after which, when the Doctoral Candidate submits the revised thesis, the evaluation process is repeated before the Committee that submitted the report recommending a revision of the thesis, having the same composition,
- acceptance of a negative report, after which the Doctoral Candidate loses the right to acquire a doctorate at the Study,
- dismissal of the Committee's report, after which the doctoral thesis evaluation process is repeated.

(6) After accepting a positive thesis evaluation report, the Faculty is obliged to make the doctoral thesis publicly available by publishing it on its website at least 30 days before the date of the defence, except in the cases referred to under Article 33 of this Ordinance. The published electronic thesis must be protected from copying of the content or saving the file by third parties.

3.4. Doctoral Thesis Defence

Article 30

Thesis Defence Committee and Invitation to the Thesis Defence

(1) A Doctoral Candidate whose doctoral thesis has been positively evaluated has the right and duty to publicly defend the doctoral thesis before the Thesis Defence Committee appointed by the Council (the fourth session of the Council in the process of obtaining a doctorate), at the earliest within 31 days and at the latest within 60 days from the publication of the thesis on the website.

(2) The public defence of the doctoral thesis is held only once.

(3) The Thesis Defence Committee may be of the same composition as the Thesis Evaluation Committee, in accordance with Article 3 of this Ordinance. By way of exception, when a member of the Thesis Defence Committee is unable to attend the defence of the doctoral thesis due to justified reasons, that member may be allowed to participate remotely. The exception shall not apply to the chair of the Committee.

(4) The invitation to the public defence of the doctoral thesis is announced on the Faculty's website at least eight days before the defence. If the Doctoral Candidate fails to make a public defence within the period referred to in the preceding paragraph without a valid reason, the Council, upon a proposal from the Thesis Defence Committee, shall adopt a decision to suspend the procedure for obtaining a doctorate and inform the Doctoral Candidate thereof.

Article 31

Doctoral Thesis Defence

(1) The public defence of the doctoral thesis is held on the Faculty's premises, in the language in which the doctoral thesis was written.

(2) The public defence procedure is determined by the protocol, about which the chair of the Thesis Defence Committee informs persons present at the defence.

(3) The Doctoral Candidate's presentation given during the defence of the Thesis may not last more than 45 minutes and must contain an explanation of the structure of the doctoral thesis, an explanation and justification of the use of research methods, and an explanation of the original scientific contribution.

(4) Minutes of the doctoral thesis defence are recorded on the form of the University of Zagreb (form DR.-11). If the doctoral thesis is defended in English, the record of the defence of the doctoral thesis is drawn up in English according to the University's form.

(5) After the Doctoral Candidate's presentation, members of the Thesis Defence Committee ask questions that must be related to the topic of the doctoral thesis. Persons present at the public defence may formulate questions in written form and the chair of the Thesis Defence Committee will then decide on the validity of such questions and forward these questions to the Doctoral Candidate. All questions for the Doctoral Candidate during the defence are to be attached as an annex to the minutes of the defence of the doctoral thesis.

(6) After answering the questions, the Thesis Defence Committee decides whether the Doctoral Candidate successfully defended or failed to defend the doctoral thesis. If the defence was successful, the Thesis Defence Committee may issue a grade from the Latin classification of honours as *rite*, *cum laude*, *magna cum laude* or *summa cum laude* according to the criteria prescribed in Annex 2. The decision and evaluation are determined by a majority vote of the Thesis Defence Committee.

(7) In the event that the doctoral thesis is not defended, the chair of the Thesis Defence Committee informs the Doctoral Candidate thereof and suspends the procedure for obtaining the doctorate. The Doctoral Candidate thus loses the right to obtain a doctorate at the Study.

3.5. Candidate's Rights and Obligations after Defending the Doctoral Thesis

Article 32

Completion of the Study and Graduation Ceremony

(1) The study, along with all the exams passed and completing the required forms of work, ends with a public defence of the doctoral thesis. Doctoral Candidates acquire the rights of a *PhD* on the day of the successful defence of the doctoral thesis, and the full rights of the academic degree and diploma are acquired by taking the oath at the graduation ceremony and by being inscribed the Book of PhDs.

(2) Three copies of the hard bound doctoral thesis and the doctoral thesis in electronic form shall

be submitted to the Student Affairs Office within 15 days from the day of the defence. Doctors (PhDs) must fill out the University form for the graduation ceremony of PhDs within 15 days from the day of the defence.

(3) The doctoral diploma is handed to Doctoral Candidates by the Rector at the graduation ceremony for PhDs and Doctors of Arts.

(4) The doctoral thesis defended at the Study will be made available to the public within the public online database of the University Library, the Faculty Library, and/or the public online database of final theses of the National and University Library no later than 30 days from the day of the defence.

(5) The Faculty shall update information about the Doctoral Candidate's completion of studies and must submit all necessary documentation to the relevant office of the University within 15 days from the day of the defence.

Article 33

Protection of the Results of the Doctoral Thesis

(1) In the event that the research results of the doctoral thesis include an innovation suitable for the protection of intellectual property rights, the Doctoral Candidate and Mentor can report this to the Faculty. In this case, the Doctoral Candidate may, with the Mentor's consent, before submitting the doctoral thesis for evaluation, request that the submitted doctoral thesis be treated in secret until the moment of public defence and the Faculty may take the necessary steps for the legal protection of such intellectual creations prior to publication, in accordance with the Regulation on Intellectual Property Management of the University of Zagreb.

(2) In this case, the public defence can be postponed, with the consent of the Doctoral Candidate, up to one year from the submission of the doctoral thesis for assessment (form DR. -07). Upon approval of this request, the period from the moment of approval of the request until the end of the need to postpone the public defence is not included in the duration of the Study.

(3) A Doctoral Candidate acquires copyright by the very act of creating a doctoral thesis.

3.6. Revocation of the Academic Degree

Article 34

Determining the Irregularity of the Procedure of the Acquired PhD and Revocation of the Academic Degree

(1) The academic degree shall be revoked if it is found to have been acquired contrary to the conditions laid down for its acquisition, by a serious breach of the rules of the Study or based on a doctoral thesis that is plagiarized or forged.

(2) The process for the revocation of the academic degree of PhD is as follows:

1. The reporting party, who can be a legal or natural person, submits a report to the University. The University forwards the received report containing the reporting party's reasoned statement and proof that the doctoral thesis is plagiarized or a forgery to the Faculty and requests a response from the Faculty.
2. The Council shall decide on a reasoned statement with a recommendation for revoking or upholding the academic degree at a session open to both the reporting party and the reported person.

3. The Faculty shall submit a reasoned statement to the University within 120 days of receiving the report.
4. The Rector appoints an *ad hoc* committee for the revocation of a PhD, which shall deliver a statement on the justification of the original report within 60 days of its appointment. Based on the statement of the *ad hoc* committee, the Rector recommends that the Senate revoke the PhD and all rights arising from it or reject the report.
5. The Senate shall make a decision to revoke a PhD. The Senate's decision to revoke a PhD is accompanied by other documents, including:
   - information on the reported person,
   - recommendation of the Faculty's Council,
   - Rector's decision on the appointment of members to the *ad hoc* committee for the revocation of the academic degree,
   - report of the of the *ad hoc* committee.
6. If the Senate decides to revoke the academic degree of PhD, the Rector will revoke the PhD diploma no later than 30 days from the date of the Senate's decision.
7. The decision to revoke the academic degree of PhD is entered in the University's Book of PhDs and Doctors of Arts. A PhD diploma is revoked by adding a statement of revocation to the diploma. The person whose academic degree was revoked must return the diploma to the University.
8. With the revocation of the academic degree, the rights for which a PhD is one of the prerequisites are also lost.
9. When revoking an academic degree, the committees and the Senate shall act in accordance with regulations on copyright protection regarding written scholarly works.

4. TRANSITIONAL AND FINAL PROVISIONS

Article 35

Validity of the Ordinance

(1) Doctoral Candidates enrolled in the study program up to and including the academic year 2022/2023 have the right to complete their doctoral studies under the conditions under which they enrolled within 8 years of enrolment.

(2) Doctoral Candidates enrolled in the study program up to and including the academic year 2023/2024 have the right to initiate the procedure for acceptance of the thesis proposal by the end of the fifth semester at the latest, according to the conditions under which they enrolled into the Study.

(3) On the date of entry into force of this Ordinance, the following shall cease to be valid:
   - Ordinance on Postgraduate University Doctoral Studies adopted on 5 November 2014
   - Ordinance amending the Ordinance on Postgraduate University Doctoral Studies adopted on 4 November 2015
   - Ordinance amending the Ordinance on Postgraduate University Doctoral Studies adopted on 9 November 2016
   - Ordinance amending the Ordinance on Postgraduate University Doctoral Studies adopted

on 11 December 2019 and

- Ordinance amending the Ordinance on Postgraduate University Doctoral Studies adopted on 13 May 2021

(4) This Ordinance shall enter into force on the eighth day from the day of its publication on the Faculty's website.

CLASS: 007-05/25-02/01

REG. NO.: 251-64-03-25-3

Zagreb, 26 March 2025

DEAN

prof. dr. sc. Domagoj Damjanović



ANNEX 1

Table 1: *Structure of the program of Doctoral Studies with the corresponding ECTS credits and required ECTS credits*

Form of activity	Description of activity	Note	ECTS credits	Minimum required ECTS credits
INSTRUCTION	Methodology of Scientific Research	Mandatory course	6	30
	4 elective courses	1 course is worth at least 6 ECTS credits	24	
MANDATORY FORMS OF WORK	Research Seminar	16 ECTS (1st year) 1 ECTS (2nd and 3rd year)	18	21
	Discussion Group	1 ECTS per year	3	
ELECTIVE FORMS OF WORK	Additional course	Maximum 1 course	6	14
	Published research papers (minimum 4 credits)	Category 'A' scientific paper	6	
		Category 'B' scientific paper	3	
		Category 'C' - presentation	2	
		Category 'C' - presentation in poster session	1	
	Training at other scientific institutions	Minimum 1 month of stay	3 (1 / month)	
	Summer schools within the area of research	Maximum 2 schools	1 (no exam) 2 (with exam)	
	Other workshops	Maximum 2 workshops	1	
DOCTORAL THESIS	Approved doctoral thesis proposal	After the Senate's decision on acceptance of the draft.	13	115
	Positive evaluation of the doctoral thesis	After the acceptance of the Committee's report by the Council.	80	
	Successful defence of the doctoral thesis	/	12	
	Mandatory scientific paper published in a journal	Prerequisite for the public defence of the doctoral thesis.	10	
			TOTAL	**180**

ANNEX 2

Instructions on assigning grades in the doctoral thesis defence procedure

According to the instructions of the University of Zagreb (CLASS: 641-01/18-02/07, REG. NO.: 380-130/027-18-1) of January 23, 2018, the grade given after the defence of the doctoral thesis is not only the grade of the defence, but also the grade of the thesis itself. It is recommended that the quality of the doctoral thesis is taken into account in the evaluation, followed by the success of the doctoral candidate in the defence.

Grades are assigned according to the following criteria:

Summa cum laude	For exceptional achievement with an important contribution in the subject area
Magma cum laude	For above-average achievement with credible research
Cum laude	For very good academic achievement
Rite	For doctoral work without special honours