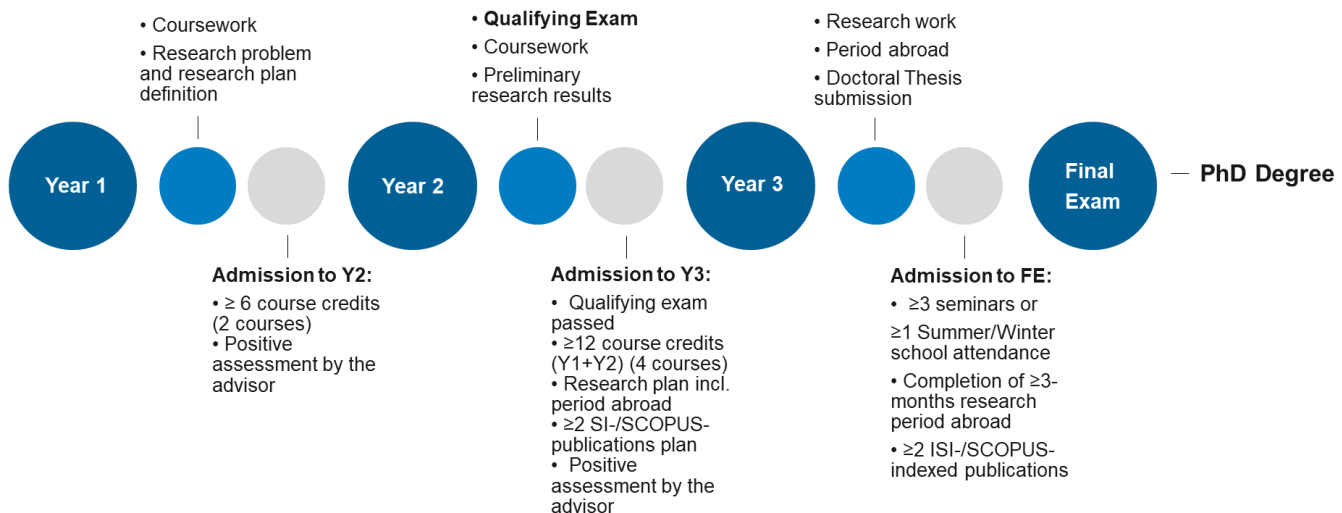




## MANIFESTO OF STUDIES 2023-2024

### TIMELINE OF THE PHD PROGRAMME



### PHD TRAINING PROGRAMME

**Doctoral students are required to acquire at least 12 course credits during the first two academic years, with a required minimum of 6 credits during the first year.**

Each course, if successfully completed, gives the student a total of 3 credits.

By the end of the **FIRST year at least 6 course credits MUST** be obtained by passing:

- Research Methodology (3 credits)
- Academic Writing for Science and Engineering (3 credits)

By the end of the **SECOND year at least 12 course credits** must be obtained by passing:

- Research Methodology (3 credits) – first year
- Academic Writing for Science and Engineering (3 credits) – first year
- at least 2 technical courses (6 credits in total) chosen among:
  - doctoral courses offered by the PhD Programme;
  - doctoral courses offered by other PhD Programmes of UniTrento;
  - doctoral courses offered by other universities;
  - Master's degrees courses offered by UniTrento: no more than one Master's degree course can be recognized (credits);
  - online courses that satisfy some quality requirements (i.e., be of at least 20 hours, include a formal final exam, content-wise be at PhD level)

By the end of the **THIRD year**: participation in **at least 3 seminars offered by the DISI Department or in a Summer / Winter school.**



## CREDIT RECOGNITION

- ✓ Each course, if successfully completed, gives the student a total of 3 credits.
- ✓ Completed doctoral courses offered by other UniTrento PhD programmes or universities, Master's degrees courses and online courses need to have their credits recognised.
- ✓ All credits will be awarded with the approval of the PhD student's tutor/advisor.
- ✓ The Executive Committee must approve any change in the way course credits are awarded.
- ✓ Courses must be completed after enrolment in the PhD programme. Exceptions may be granted by the Executive Committee.
- ✓ Courses that have been part of the student's other degrees will not be taken into account.

### Requirements that must be fulfilled in order to get credits recognized from the following completed courses.

- **Master's degrees course:**
  - a) **credits for no more than one Master's degree course can be recognized;**
  - b) offered by UniTrento;
  - c) final examination/test at the end of the course;
  - d) the lecturer of the course must not be the advisor of the doctoral student requesting the recognition of the course credits
  - e) the request for credit recognition must be motivated by the advisor
  - f) approval by the Executive Committee
- **Online courses:**
  - a) topic not overlapping with courses offered by the PhD Programme;
  - b) must be offered by a university
  - c) final examination/test at the end of the course;
  - d) at least 20 hours long;
  - e) content must be equal to the level of "post graduate";
  - f) approval by the Executive Committee

### Requirements for the recognition of seminars offered by the DISI Department or of a Summer/Winter school.

- **Seminars** must be offered by the DISI Department.
- **Summer/Winter School** must be at least 20 hours long.

**NB:** The attendance of seminars and Summer/Winter schools does not give course credits.

**In order to have either course credits or participation in seminars/summer/winter schools recognised, students must send an email to [iecs.school@unitn.it](mailto:iecs.school@unitn.it) with their supervisor in CC and the following information/documents:**

- name of the doctoral course/ Master's Degree course /online course/seminar/ Summer or Winter School
- organising University/Institution
- place where it was held
- starting and ending date
- content
- total amount of hours
- grade (if available)
- certificate issued by institute that offered the Summer or Winter school/doctoral course/online course (attached to the email)

## ADMISSION TO THE SUBSEQUENT YEARS

Admission to the subsequent year is approved by the Doctoral School Committee in October each year.

### ADMISSION TO THE SECOND YEAR

By the end of the first year PhD students must fulfil the following requirements:

- a) completion of all 6 mandatory course credits: all requirements concerning the acquisition of credits must be fulfilled. *Requirements are described on page 1.*
- b) positive assessment of the advisor on the activity carried out by the PhD student

The admission to the second year and the number of credits granted are conditional on the student's regular attendance on the PhD educational programme.

**In the case of:**

a.	<ol style="list-style-type: none"> <li>1. completion of all 6 mandatory course credits. All requirements concerning the acquisition of credits must be fulfilled. <i>Requirements are described on page 1;</i></li> <li>2. positive assessment of the advisor and the co-advisor on the activity carried out by the PhD student</li> </ol>	the PhD student is admitted to the second year
b.	<ol style="list-style-type: none"> <li>1. completion of all 6 mandatory course credits;</li> <li>2. <b>negative assessment of the advisor and co-advisor</b> on the activity carried out by the PhD student</li> </ol>	the PhD Student will be admitted to the second year <b>after passing the Qualifying exam*</b>
c.	<ol style="list-style-type: none"> <li>1. <b>failure to complete all 6 mandatory credits;</b></li> <li>2. <b>negative assessment of the advisor and co-advisor</b> on the activity carried out by the PhD student</li> </ol>	the PhD student will be <b>not admitted to the second year</b> and therefore he/she will be <b>excluded</b> from the PhD programme

\* If a student has received a negative assessment of his or her academic performance in the first year from his or her supervisors, admission to the second year will depend on the result of the Qualifying exam. Information about the Qualifying exam is described on page 8.

### ADMISSION TO THE THIRD YEAR

By the end of the second year PhD students must fulfil the following requirements:

- a) recognition of no fewer than **12 course credits**: all requirements concerning the acquisition of credits must be fulfilled. *The requirements are described on page 1.;*
- b) success in the Qualifying exam. All students have to take the Qualifying exam at the beginning of the second year anyhow;
- c) submission of a plan illustrating the scheduling of a period of research of at least 3 months which must be spent abroad by the end of the PhD programme;
- d) submission of plan to achieve at least two ISI- or SCOPUS-indexed publications within the duration of the study programme;
- e) positive assessment about the conducted research by the advisor and the co-advisor;

The admission to the third year and the number of credits granted are conditional on the student's regular attendance on the PhD educational programme.

**In the case of:**

a.	<ol style="list-style-type: none"> <li>1. completion of all 12 course credits. All requirements concerning the acquisition of credits must be fulfilled. <i>(requirements are described on page 1);</i></li> <li>2. success in the Qualifying exam;</li> <li>3. submission of a plan illustrating the scheduling of a period of research of at least 3 months which must be spent abroad by the end of the PhD programme;</li> <li>4. submission of plan to achieve at least two ISI- or SCOPUS-indexed publications within the duration of the study programme;</li> </ol>	the PhD student is <b>admitted to the third year</b>
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	<p>5. positive assessment of the advisor and the co-advisor on the activity carried out by the PhD student</p>	
b.	<p>1. completion of all 12 course credits. All requirements concerning the acquisition of credits must be fulfilled. (<i>requirements are described on page 1</i>);</p> <p>2. success in the Qualifying exam;</p> <p>3. submission of a plan illustrating the scheduling of a period of research of at least 3 months which must be spent abroad by the end of the PhD programme;</p> <p>4. submission of plan to achieve at least two ISI- or SCOPUS-indexed publications within the duration of the study programme;</p> <p>5. <b>negative assessment of the advisor and the co-advisor</b> on the activity carried out by the PhD student</p>	<p>the <b>procedure described on page 11 will be activated</b></p>
c.	<p>1. <b>failure to complete all 12 course credits.</b> All requirements concerning the acquisition of credits must be fulfilled (<i>requirements are described on page 1</i>);</p> <p>2. success in the Qualifying exam;</p> <p>3. submission of a plan illustrating the scheduling of a period of research of at least 3 months which must be spent abroad by the end of the PhD programme;</p> <p>4. submission of plan to achieve at least two ISI- or SCOPUS-indexed publications within the duration of the study programme;</p> <p>5. <b>negative assessment of the advisor and the co-advisor</b> on the activity carried out by the PhD student</p>	<p>the PhD student will be <b>not admitted to the third year</b> and therefore he/she will be <b>excluded</b> from the Doctoral programme</p>

Instructions and deadlines regarding the *Qualifying exam* are described on page 8.

Information on the activation of *the procedure in the event of a negative assessment of the advisor for the admission of doctoral students to the third year* is described on page 11.

## ADMISSION TO THE FINAL EXAM / PHD DEFENCE

By the end of the third year PhD students must fulfil the following requirements:

- b) completion of a period of research of at least 3 months spent abroad;
- c) publication of at least two ISI- or SCOPUS indexed publications;
- d) attendance at either at least 3 seminars offered by the DISI Department or a Summer/Winter school;
- e) positive assessment of the advisor and the co-advisor about the research contributions of the PhD student

**In the case of:**

a.	<p>;</p> <p>1. completion of a period of research of at least 3 months spent abroad;</p> <p>2. publication of at least two ISI- or SCOPUS indexed publications;</p> <p>3. attendance at either at least 3 seminars offered by the Doctoral Programme/DISI Department or a Summer/Winter school</p> <p>4. positive assessment of the advisor and the co-advisor about the research contributions of the PhD student</p>	<p>the PhD student is <b>admitted to the Final exam</b></p>
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- b.
1. completion of a period of research of at least 3 months spent abroad;
  2. publication of at least two ISI- or SCOPUS indexed publications;
  3. attendance at either at least 3 seminars offered by the Doctoral Programme/DISI Department or a Summer/Winter school
  4. **negative assessment of the advisor and the co-advisor about the research contributions of the PhD student**

**the procedure described on page 11 will be activated**

Information on the activation of the *procedure in the event of a negative assessment of the advisor for the admission of doctoral students to the Final exam* is described on page 11.

The *Final exam* consists of a defence of the thesis in front of a Committee of independent and selected experts on the thesis' research area.

The instructions on the procedure regarding the Final exam are described on page 12.



## TRANSDISCIPLINARY PROGRAMMES

In addition to the objectives of the PhD Programme in Information Engineering and Computer Science, transdisciplinary programmes are established to pursue the following specific objectives:

- Promotion of cross-disciplinary research within the PhD program;
- Training of PhD students with cross-disciplinary skills;
- Increasing collaborations with the other institutions.

A transdisciplinary programme is an educational pathway that complements the Doctoral programme (primary programme) with an educational and research component in an additional discipline (secondary programme). The secondary programme integrates the primary one without changing the rules and constraints. It is possible to obtain the primary degree without obtaining the secondary degree, but not vice versa.

At the end of the programme, the PhD student will receive the title of PhD in Information Communication Technology (for students enrolled until cycle 36) or PhD in Information Engineering and Computer Science (for students enrolled from cycle 37 onward) and Expertus/Experta in the discipline of the secondary programme.

PhD students can apply for the programmes within 2 months from the enrolment on the PhD course.

### • Transdisciplinary Programme in Space Data Science and Technology (SpaDaST)

The SpaDaST programme student is required to acquire **6 extra credits**, in addition to the 12 credits requested by the primary PhD programme by taking the fundamental course “*Space based observation techniques and methods*” – prof. Vitale, Battiston, Bruzzone (6 credits).

At the end of each year, the SpaDaST programme student presents his/her work in front of a commission appointed by the panel.

For more details, visit: <https://www.unitn.it/drphys/en/429/transdisciplinary-programme-space-data-science-and-technology>

### • Transdisciplinary Programme in Quantum Science and Technologies (QST)

In addition to the 12 credits requested by the primary PhD programme in IECS, the QST programme student must complete the following courses:

- Quantum Sensing - prof. Quaranta | 3 credits
- Quantum Machine learning - prof. Pastorello | 6 credits, 3 of which will be considered among the 12 credits for the PhD primary programme in IECS

For more details, visit: <https://iecs.unitn.it/enrolled-student/phd-career/trandisciplinary-programmes>



## COURSES OFFERED BY THE PHD PROGRAMME IN INFORMATION ENGINEERING AND COMPUTER SCIENCE

Courses' scheduling is available within each course's webpage from: <https://iecs.unitn.it/education/courses>

<p><u>Academic Writing for the Sciences and Engineering</u> Felicity Anne Hope (University of Trento); Matthew James Millward (University of Trento)</p>
<p><u>Academic Writing II</u></p>
<p><u>Advanced Deep Learning</u> Marco Pedersoli (École de technologie supérieure ÉTS, Canada)</p>
<p><u>Advanced Pattern Recognition</u> Ryuei Nishii (University of Nagasaki, Japan)</p>
<p><u>Advanced probabilistic modeling: from generative to neuro-symbolic AI</u> Antonio Vergari (University of Edinburgh, UK)</p>
<p><u>Advanced topics in Deep Learning</u> Antonio Rodriguez Sanchez (University of Innsbruck, Austria)</p>
<p><u>AI Ethics Today</u> James Brusseau (Pace University, USA)</p>
<p><u>Algorithm engineering and experimental algorithmics</u> Jurij Mihelič (University of Ljubljana, Slovenia)</p>
<p><u>Applied Formal Methods</u> Alberto Griggio (Fondazione Bruno Kessler - FBK, Italy)</p>
<p><u>Business Agility</u> York Roessler (Egeria Consulting GmbH, Germany)</p>
<p><u>Computing for sustainable socio-ecologies: an introduction from a sustainable interaction design perspective</u> Maurizio Teli (Aalborg University, Denmark)</p>
<p><u>Computing in Communication Networks</u> Fabrizio Granelli (University of Trento); Frank Fitzek (Technische Universität Dresden — TU Dresden, Germany)</p>
<p><u>Cooperative Games and Team Optimization: Basic Concepts and Case Studies</u> Marcello Sanguineti (University of Genova, Italy)</p>
<p><u>Engineering Gamified Systems</u> Antonio Bucchiarone (Fondazione Bruno Kessler - FBK); Federico Bonetti (Fondazione Bruno Kessler - FBK)</p>
<p><u>From Research to Business</u></p>
<p><u>Modern visual object tracking</u> Luka Čehovin Zajc (University of Ljubljana, Slovenia)</p>
<p><u>Network intrusion detection with Deep Learning</u> Roberto Doriguzzi Corin (Fondazione Bruno Kessler - FBK, Italy)</p>
<p><u>Parallel Programming</u> Didem Unat (Koç University, Turkey)</p>
<p><u>Quality Diversity - extending the phenotype in evolutionary optimization</u> Alexander Hagg (Bonn-Rhein-Sieg University of Applied Sciences, Germany)</p>
<p><u>Research Methodology</u> Carlo Ghezzi (Politecnico di Milano, Italy); Aliaksandr Birukou (Springer Nature, Heidelberg, Germany &amp; Springer Nature AG, Cham, Switzerland); Paolo Guarda (University of Trento, Italy)</p>
<p><u>Spaceborne Synthetic Aperture Radar (SAR): Principles, Imaging Techniques and Future Developments</u> Alberto Moreira (German Aerospace Center - DLR, Germany); Marwan Younis (German Aerospace Center - DLR, Germany; Karlsruhe Institute for Technology - KIT, Germany)</p>



## REGULATIONS OF THE QUALIFYING EXAM

The goal of the Qualifying exam is twofold. It aims at enabling the advisor and the PhD Programme to assess whether the student has the potential to become a successful PhD candidate. Moreover, it gives the PhD students experience "examination" that they will have to face later in their careers.

### FIRST EXAM

**By October:** PhD students must upload the research proposal complete in all its parts (for details see below) to the students' web portal according to the instructions provided by the Doctoral Programme Secretariat. Non-submission of the research proposal results directly in a FAIL, i.e. failure to pass the Qualifying exam and consequent exclusion from the doctoral programme, unless there are serious and justified reasons for such non-submission that the Executive Committee reserves the right to evaluate.

#### Guidelines for the research proposal (paper) draft

PhD students are required to produce a document amounting to a maximum of 10 pages in ACM two-column style which must comprise:

- Contextualization of the research problem identified (why it is important, its impact, etc.)
- State of the art (concerning the research problem identified)
- Identification and specification of the research problem addressed by the student's doctorate, setting it in relation to the current state of research (e.g. specifying existing limitations)
- Methodology and the approach required to solve the problem identified
- Any preliminary results

**November–December:** students make a presentation of their research proposal to the examination committee. The exam is open to the public and consists of a 20-minute presentation by the student, followed by questions - 25 minutes – from the committee. Upon the session's conclusion, the committee discusses the outcome of the exam (PASS / FAIL / RETRY) and submits its judgement according to an evaluation form provided by the student's web portal. The outcome of the evaluation is made available to the student and his/her advisor.

#### Evaluation form for examination committee and advisor

The research proposal (paper) and the presentation will be evaluated by the examination committee according to the criteria listed in the table below. For each criterion, the committee must insert a comment regarding the judgment assigned.

The advisor must also provide an evaluation according to the same criteria. The advisor must submit the evaluation grid for his/her student to the portal before his /her student's examination within the deadlines indicated by the Doctoral Programme Secretariat.

		Insufficient	Sufficient	Good	Excellent
<b>Content of the research proposal and presentation (oral exam)</b>	a) Contextualization, motivation and potential impact of the research problem				
	b) State of the art (coverage, quality, good knowledge)				
	c) Problem statement and objectives (clarity, depth, novelty, feasibility)				
	d) Proposed methodology and expected outcomes (correctness, feasibility, soundness)				
	e) Preliminary Results (quality, own contribution)				
<b>Presentation</b>	f) Organization, structure, timing, content, visual aspects of the presentation. Language and presentation skills. Quality of the research proposal w.r.t. writing skills				
<b>Overall Result</b>	<b>PASS/RETRY/FAIL</b>				





On the basis of the student's submitted research proposal and of the presentation, the examination committee proposes to the Executive Committee one of the following verdicts. The Executive Committee approves the examination committee's evaluation.

**PASS** if the results for criteria b), c) d) and f) were all rated as at least "Sufficient".  
The PhD student may continue his/her PhD studies.

**FAIL** if at least three of the criteria b), c) d) and f) were rated "Insufficient".  
The PhD student will be excluded from the doctoral programme.

**RETRY** if two of the criteria b), c) d) e f) were rated "Insufficient".  
The PhD student must submit a new version of his/her research proposal and make a presentation before a different examination committee within 3 months from the day of the notification of the first exam outcome unless justified exceptions which will be assessed individually.

If only one of the criteria b), c) d) and f) was deemed "Insufficient", the examination committee will evaluate whether to give the student a RETRY or a PASS in light of the other criteria as well.

**Composition of the examination committee:** the examination committee consists of three members. Each PhD student is assigned a committee. Besides the members of the Doctoral School Committee, also involved will be the adjunct members, the members of the Department, and the FBK members who are advisors of students of the Doctoral programme.

## SECOND EXAM – RETRY

Those PhD students who obtained RETRY from the first exam must submit a new version of the research proposal and make a presentation before a different examination committee within 3 months from the day of the notification of the first exam outcome, unless justified exceptions which will be assessed individually.

PhD students must upload the new version of their research proposal together with a rebuttal letter to the students' web portal. The rebuttal letter will refer to the shortcomings indicated by the committee of the first exam and will list what the PhD student has done to remedy them. The committee will access the document through the web portal.

Before the second exam, the RETRY exam, the advisor must submit an assessment concerning the student. The advisor may also make a 10-minute presentation on his/her student before his/her student's presentation. The presentation is not public and requires the presence of the student. The committee will also examine the opinion expressed by the committee during the first exam.

The RETRY exam is open to the public and includes a 30-minute presentation: 20 minutes for the presentation and then 10 minutes during which the PhD student will respond to the reasons for his/her RETRY stated by the previous commission. There will follow 25 minutes of questions from the committee. At the end of the session, the committee will deliberate its final judgment on the exam (PASS / FAIL) and will submit it by means of an evaluation form provided by the student's web portal, so that it is then known to the student and his/her advisor. The RETRY exam committee may also suggest the confirmation of the advisor, which will then be discussed by the Executive Committee.

On the basis of the student's submitted research proposal and the presentation, the examination committee will propose to the Executive Committee one of the following results. The Executive Committee approves the examination committee's evaluations.

**PASS** if the results for criteria b), c) d) and f) were all rated as at least "Sufficient".  
The PhD student may continue his/her PhD studies.

**FAIL** if at least three of the criteria b), c) d) and f) were rated "Insufficient".  
The PhD student will be excluded from the doctoral programme.

**Composition of the examination committee:** the Executive Committee is a single committee for all the PhD students. It is composed of at least five members whose requirements are the same as those applied for the committees of the first exam.



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**EXAM RESULT – FAIL**

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According to art.13, paragraph 2 of the Regulations of PhD Programme in “Information Engineering and Computer Science” “In the event that a student fails to pass the examination, s/he will be excluded from the PhD Programme from the date decided by the Executive Committee”.



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## PROCEDURE IN THE EVENT OF A NEGATIVE ASSESSMENT OF THE ADVISOR FOR THE ADMISSION OF PHD STUDENTS TO THE THIRD YEAR OR FINAL EXAM

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On the occasion of the admission of PhD students to the third year or to the Final exam in the case of completion of all credits and negative assessment of the advisor, the following procedure will be applied.

The PhD student must make a 30-minute presentation of all the scientific results achieved during the current doctoral year, followed by questions from a committee appointed by the Executive Committee. The examination committee consists of three members of the Doctoral School Committee. The presentation can be supported by the use of digital tools.

The PhD student must send a list stating the documents presented among those listed below and a copy of the documents within a few days before his/her presentation. If any of the documents is not available, the PhD student must send a declaration in this regard.

- a) copy of the papers published since the PhD student started the Doctoral programme;
- b) copy of the submitted papers, specification of the journal and / or conference and relative reply letter from the reviewers (if at least they have passed the first revision or letter / email from the journal / conference confirming receipt of the first submission);
- c) copy of posters if accepted at conferences with evidence of the conference program from which they were presented;
- d) for works produced in collaboration, a short declaration on the contribution of all authors signed by the student. The committee reserves the right to request confirmation from the other authors.

The PhD programme Secretariat will communicate to the student the conditions and terms for submitting the documentation as well as the date and instructions regarding the exam no later than 15 days before the exam date.

The committee has access to the advisor's assessment, to the documentation presented by the student and to the judgments relating to exams taken during the current year (e.g. Qualifying exam for the second year).

The advisor may present any additional information he/she consider appropriate on the performance of his/her student during the current year to the committee.

The committee will assess whether or not the work carried out during the year by the student is sufficient and will produce a single judgment which must also contain a suggestion concerning admission to the following year. The committee must draw up a report containing a description of the exam performance and a final judgment.

The Secretariat will send the PhD student the minutes with the judgment of the committee and, in the case of negative judgment, will invite the PhD student to submit observations and documentation useful for the decision by the Executive Committee within a few days before the Committee meeting. This documentation will be brought to the attention of the Executive Committee.

Taking into account the regulations in force, the judgment of the examination committee, the previous judgment of the advisor, any further documentation presented by the PhD student and the previous resolutions of the PhD programme bodies, the Executive Committee, will decide on the admission of the student to the following year.

If the PhD student is admitted to the following year by the Executive Committee, he/she will continue with the PhD programme.

The Executive Committee will not admit the PhD student to the following year if it does not identify the elements and conditions suitable for his / her admission. Consequently, the PhD student will be excluded from the PhD programme.



## DEADLINES AND INSTRUCTIONS REGARDING FINAL EXAMINATION FOR PHD STUDENTS AND ADVISORS

PhD students who have been admitted to the final examination by the Doctoral School Committee shall submit their thesis for evaluation to two external referees.

Both referees will propose either admission to the final examination/PhD defence or Postponement for a period of no longer than six months in the case of major revision.

In the case of major revision, the student must submit a new version of the thesis together with a rebuttal letter before the deadline. The referees will then submit a new evaluation according to the changes made to the thesis by the student.

In any case the student is admitted to the final examination..

**For PhD Students whose doctoral career has been extended due the Covid-19 emergency, all the deadlines (beneath) of the PhD programme are postponed for the same period (up to 3 months)**

DEADLINES FOR PHD STUDENTS		
Step	Activity	Deadline
1.	Request for admission to thesis review procedure,(final examination) or for an extension	By the September 29, 2023
2.	Submission of the thesis and of a report on the PhD activities	By January 18, 2024 (at 12:00 PM)
3.	Delivery of the final version of the thesis to the final examination committee and to the referees	No later than 10 days before the date of the final examination
4.	Upload of the final version of thesis and of the Deposit Disclaimer	No later than 10 days before the date of the final examination
5.	Delivery of the abstract of the final version of the thesis	No later than 10 days before the date of the final examination
6.	Return of the university computer	On the day of the final examination
7.	Final examination	a. By April 30, 2024 (Minor revision) b. By July 31, 2024 (Major revision - 3 months); By October 31,2024 (Major revision - 6 months )

For those PhD students who obtained **a period of suspension** during their PhD Programme, all deadlines concerning their final examination will be postponed for the same period of their suspension. The IECS Doctoral School Secretariat will send them all new deadlines.



**Step 1- Thesis review procedure (Final examination) or Postponement**

**By the September 29, 2023**

➤ **Request for admission to the thesis review procedure (Final examination)**

Before applying, the student must discuss the state of the thesis with his/her advisor.

**Mandatory for admission to the final examination is completion of a period of research of at least 3 months' duration spent abroad and publication of at least two ISI- or SCOPUS-indexed publications.**

The request for admission to the final examination must be submitted online by means of the **Esse3 system** <http://www.esse3.unitn.it/Start.do>

The request implies the payment of a contribution ("final examination contribution") of € 72,00 (which includes two duty stamps of € 16,00). PhD students must have regularly paid all the three-year PhD course fees when they submit the online final examination form.

Information about the online application is available at <https://www.unitn.it/en/ateneo/1932/final-examination>

PhD students are asked to fill in the AlmaLaurea questionnaire together with the request for admission to the final examination, in order to gather their opinions about the services provided by our university.

➤ **Award of the label "Doctor Europaeus"**

The additional label of "Doctor Europaeus" may be awarded to those PhD students who fulfil the prerequisites proposed by the European University Association as follows:

1. positive judgement on the thesis by two referees from two higher education institutions of two European countries, other than the one where the doctoral thesis will be defended;
2. at least one member of the final examination committee comes from a higher education institution in a European countries other than the one where the doctoral thesis will be defended;
3. period abroad of at least 3 months spent in another European country;
4. the doctoral thesis must have been partly prepared as a result of a period of research of at least one trimester spent in another European country.

PhD students interested in obtaining the title of "Doctor Europaeus" should indicate their interest in the AlmaLaurea questionnaire (see previous point)

Information is available at <http://www.unitn.it/en/ateneo/50322/doctor-europaeus>

➤ **Request for Postponement**

For important reasons that do not allow to submit the thesis on schedule, the student can request a postponement period.

The student can request a postponement of **3, 6 or 12 months**.

**All the deadlines are postponed for the same period requested.**

**Step 2 - Submission of the thesis and of a report on the PhD activities**

**By January 18, 2024**

The IECS Doctoral School Secretariat will send PhD students all details about their referees as well as the instructions on the submission of the required documents

PhD students have to upload to **Easychair a single pdf file** (file extension .pdf) containing:

1. thesis;
2. a report on the research/study activities that he/she has carried out during his/her Doctoral Programme and a list of his/her publications. The report should contain:
  - list of publications
  - periods spent abroad for study/research reasons
  - Summer/winter schools, Conferences
  - participation in research projects
  - other



A template will provided by the IECS Doctoral School Secretariat

As soon as the student has uploaded the required file to Easychair, he/she informs both his/her referees, as well as the IECS Doctoral School Secretariat, about his/her submission.

Referees submit their evaluation for the thesis within 30 days from when the thesis is available on Easychair.

As an **overall evaluation of the student's thesis**, referees may propose one of the following results:

- MINOR Revision: admission of the student to the final examination/PhD defence
- MAJOR Revision: the student must resubmit to Easychair a new version of the thesis with a rebuttal letter within 3 months (Final Exam to be discussed by July 31, 2023)
- MAJOR Revision: the student must resubmit to Easychair a new version of the thesis with a rebuttal letter within 6 months (Final Exam to be discussed by October 31, 2023)

Each PhD student will receive the reviews via email as soon as both referees have submitted their evaluations.

<b>Step 3 - Delivery of the final version of the thesis to the final examination committee and to the referees</b>	<b>No later than 10 days before the date of the final examination</b>
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PhD students send the final version of the thesis (.pdf) to each member of the final examination committee and to both the referees via e-mail.

No hard copy must be submitted

<b>Step 4 - Upload of the final version of the thesis and of the Deposit Disclaimer</b>	<b>No later than 10 days before the date of the final examination</b>
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PhD students must upload the **final version of the thesis** (.pdf) and the **Deposit Disclaimer** to the **online open-access archive IRIS** <https://iris.unitn.it/>

PhD students may decide to let the thesis be made public or to restrict its access. 'Embargo' is a period during which the thesis is kept secret. Only bibliographic metadata are made visible. PhD students can request a period of embargo (up to 24 months).

**NB:** PhD students who have been awarded a scholarship funded by other institutions (e.g. research centres, companies, European Commission) should contact the IECS Doctoral School Secretariat to determine whether any imposing secrecy restriction is foreseen.

Once the thesis has been submitted to the online University archive, it can no longer be replaced with another version.

Those PhD students who do not self-archive both their thesis and Deposit Disclaimer in the online University archive, will not receive the PhD diploma on the date of the final examination.

The Guidelines for uploading Doctoral theses in IRIS and all materials are available in the Box Download on the web page Research outputs management at the following link <https://www.biblioteca.unitn.it/en/404/research-outputs-management>

Intellectual property rights: <https://www.unitn.it/en/ricerca/1767/protection-and-valorization-of-intellectual-property>

<b>Step 5 - Delivery of the abstract of the final version of the thesis</b>	<b>No later than 10 days before the date of the final examination</b>
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PhD students should send title and abstract of the thesis to the IECS Doctoral School Secretariat.

The PhD defence will be advertised via Facebook and on the IECS Doctoral School and DISI website.



**Step 6 - Delivery of the university computer**

**On the day of the final examination**

PhD students who have received a computer from the university must return it to the IECS Doctoral School Secretariat on the day of the final examination.

The computer must be formatted before being returned.

**Step 7 - Final examination**

**a.** By April 30, 2024 (Minor revision)

**b.** By July 31, 2024 (Major revision - 3 months);  
By October 31, 2024 (Major revision - 6 months )

In the case the referees require minor amendments to the thesis, the final examination must be held by no later than April 30, 2024.

If referees ask for relevant integrations or changes that must be completed within:

- 3 months: the final examination must be held by July 31, 2024;
- 6 months: the final examination must be held by October 31, 2024.

The Final examination will take place before the examination committee and will consist of a public discussion of the thesis.

The PhD School organizes a proclamation ceremony for each PhD student who concludes the doctoral programme. The advisor should introduce the candidate as well as the committee members. The candidate will then present his/her thesis (around 45 minutes), which will be followed by questions from the committee (around 30 minutes). The defence is open to the public.

In the case of negative judgement by the final examination committee, the PhD student is excluded from the Doctoral Programme.

**PhD students on a co-tutelle programme**

In order to obtain the double doctoral degree, PhD students must fulfil the requirements foreseen by both institutions. PhD students are therefore invited to check with the hosting institution in regard to any further requirement which must be fulfilled in order to be awarded the degree.



DEADLINES FOR ADVISORS		
Step	Activity	Deadline
1	Approval of the request for admission to the thesis review or for postponement of the thesis evaluation	By October 12, 2023 (at 12:00 PM)
1.	Suggestion of two referees	By December 4, 2023 (at 12:00 PM)
2.	Communication of the final examination committee and date of the final examination	No later than 30 days before the date of the final examination ultime 2 settimane di ogni mese
3.	Final examination	a. By April 30, 2024 (Minor revision) b. By July 31, 2024 (with a 3 months Major revision); By October 31, 2024 (with a 6 months Major revision)

**Step 1 - Approval of the request for admission to the thesis review or for postponement of the thesis evaluation**

**By October 12, 2023 (at 12:00 PM)**

Advisors should approve their PhD students' admission to the thesis review procedure (final examination) or its postponement.

In case of request for admission to the thesis evaluation (final examination), advisors should submit an evaluation on the research carried on by the candidate during her/his PhD leading to the thesis proposal to the Doctorate Student Career <http://dsc.disi.unitn.it/>

**Step 2 – Suggestion of two referees**

**By December 4, 2023 (at 12:00 PM)**

Advisors should send all the details below concerning the **two referees** who will review their PhD students' thesis by inserting all the required information in the form at the link: <https://forms.gle/uZLdf9autSps8Efd7>

**Advisors should suggest referees who have already confirmed their availability.**

**Referees eligibility criteria:**

- experts selected among highly qualified tenured academic staff or tenured lecturers belonging to other institutions (**NO UniTrento**)
- at least one referee must be academic staff (professor or researcher)
- researchers who work for companies that deal with research
- no previous collaborations with the student (e.g. thesis co-tutorship, internship, research collaboration)
- adjunct lecturers/instructors are not eligible
- possessors of titles such as Emeritus Professor, Emeritus Reader, Senior Fellow are not eligible unless they have a teaching contract or are in service at a foreign research institute or university.

Referees submit their evaluation for the thesis within 30 days from when the thesis is available.

The two referees may be part of the final examination committee as well. In this case they may be reimbursed (only travel expenses).



<b>Step 3 - Proposal of the final examination committee and date of the final examination</b>	<b>No later than 30 days before the date of the final examination</b>
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Once the student has been admitted to the final examination by the two referees, the advisor should send to [iecs.school@unitn.it](mailto:iecs.school@unitn.it):

- composition of the final examination committee;
- date of the final examination.

The final examination session are the last two weeks of each months; the date of the final examination

The final examination committee should be composed of:

- a) from three to five members selected among tenured academic (university) staff and/or researchers at Italian and/or foreign institutions, specialized in the topics of the dissertation;
- b) "two-thirds" of the commission must be external to UniTrento and "two-thirds" must be academic staff
- c) up to two external experts may be added. They can be lecturers/researchers or experts selected from universities and public and private research centres.

**NB:**

- Advisors should suggest a committee whose members have already confirmed their availability.
- The advisor cannot be part of the committee.
- Referees can be part of the committee (they can be any of the 3 - 5 + additional 2 members, see above two points).
- Researchers who work for companies that deal with research may be part of the committee (they can be any of the 3 - 5 + additional 2 members, see above two points).
- Possessors of titles such as Emeritus Professor, Emeritus Reader, Senior Fellow are not eligible unless they have a teaching contract or are in service at a foreign research institute or university.

<b>Step 4 - Final examination</b>	<p><b>By 30 April 2024</b></p> <p><b>By July 31, 2024</b> <b>(Major revision – 3 months)</b></p> <p><b>By October 31,2024</b> <b>(Major revision – 6 months)</b></p>
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The advisor should support the committee during the entire proclamation ceremony of the candidate.

The IECS Doctoral School Secretariat will send advisors all details on the ceremony and in particular on the advisor's duties.