



FACULTY OF ELECTRICAL ENGINEERING
FROM ELECTRONS TO CLOUDS

Information and Motivation Meeting for New Doctoral Students

Hints to finish in 4 years

CTU FEE
February 10, 2026

Who is the PhD study (doctorate) intended for?

- For everyone who **aspires to have a career in science, academia, and scientific institutions** such as the Academy of Sciences, or company development departments; **more a scientist than a traditional student**
- For everyone who wants to **push the frontiers of knowledge**

Rules and requirements: SEC (SZŘ), DSC (ŘDS), DD (SD)

- **Individual Study Plan (ISP):** list of courses and other study activities and obligations (e.g.: stay abroad), submit **by February 28**
- **Study requirements:** min. of **2 courses**, semester evaluation, deadlines and study checkups/examinations
- **Publications:** at least 1x **WoS Jimp Q1-Q3 / MathSciNet journal paper or CORE A*/A conference paper** (min. of **3 scientific papers totally**)
- **Internationalisation is required:** typically **internship abroad** for min. of 1 month, 3-6 months recommended
- For interruption of studies / parental leave an application is required

PhD study plan in the non-credit system (since 2022)

Stage	Year	Publications required	Study / courses	Notes
Study block	1y		Min. 1	Read scientific papers (30-50/y)
	2y	1x scientific conference/journal paper (at least accepted, first author) in one of the databases WoS/Scopus/MathSciNet or ranking CORE	Min. 2 (in total) (totally 100 hours)	Progress report (PR) Professional debate on the PR
State Doctoral Exam	3y			Canceled by law (Higher Education Act, 03/2025)
Thesis submission	4y – standard period Max. 6y (applies for students started after Nov 1, 2021: SEC, Art. 19/7)	Min. 3 scientific papers totally at least 1x (at least accepted, first author) WoS Jimp Q1-Q3 (according to IF) / MathSciNet journal or CORE A*/A conference + 2x conference or journal papers		Internationalisation Erasmus+, Fulbright Commission, funding opportunities, faculty support

Supervisor / Co-Supervisor

- **Experienced researcher** with 1. **knowledge of the state-of-the-art** in the selected scientific topic, 2. **publication track record**, and 3. **international contacts/collaboration**
- **Provide** ideas, means, motivation and tools to go **beyond the known horizons**
- **Give** you a **list of journals** and **conferences** where you should publish
- Should be **the first one to help you** with **any issues** you may face with your doctorate

Meet/consult with them at least once a week

Benefits and Opportunities of Doctorate

- **Attending** conferences, summer schools and lectures, workshops and courses
- **Staying** abroad on internships
- **Learning** languages, scientific writing and applying for scientific grants
- **Working** with modern technologies, unique hw and specialised sw equipment
- **Exploring** and **discovering** the unknown

Research Office Assistants aka Guardian Angels

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Further Information

- [Doctoral Degree Studies - CTU - Faculty of Electrical Engineering](#)
- [Doctoral study - CTU FEE](#)

Recommended courses, activities and information support

D32SWE [Scientific Writing and Publishing in English](#), [syllabus - initial version \(5 February 2026\)](#)

- A CTU university course, **prof. Milan Jirásek**, Faculty of Civil Engineering
- **Starts:** February 19
- **Enrolment deadline:** February 12

E-learning course: [Information for Science and Research Course](#), [CTU Central Library](#)

- Lecturers: Mgr. Michaela Morysková, Mgr. Lenka Hrdličková, Ph.D.
- Contents:
 - Module 1: Work with Information Resources
 - Module 2: Intellectual Property and Academic Integrity
 - Module 3: Open Science – freely available scientific information
 - Module 4: Principles of Publishing Scientific Results
 - Module 5: Research Evaluation and Citation Databases
 - Module 6: Scientific Presentation

[POSTER 2026](#)

- **International Student Conference** for doctoral and undergraduate students
- **One-day event, prizes, special award, social programme**

Last but not least: The motivation to finish your studies in 4 years

Scholarship (governmental, SGS, extra) + salary (scientific/company projects)

- **Doctoral Study Income** – new as of Sept 1, 2025; laid down by law (HEA)
1.2x min. wage ~ 24 960 CZK (2025/26); only **up to the 4th year**
- Doctoral students with supervisors from CTU FEE had /in 20-80 percentile/
19-49k CZK/month – **net income**
23-63k CZK/month – **gross income**
during **the standard period (4y)** of **full-time studies**. (updated 03/2025)

Dean's Award for an Excellent Dissertation Thesis (submitted within 5y)

- Prize money
- Looks good in CV 😊

PhD Success Stories – inspiration for your career

„PhD Guide“ – comprehensive info guide; **to come in March 2026**

Don't leave matters (**especially publications!**) to the last minute. **Plan ahead!**



Appendix

DSC (RDS), Art. 1 Definitions

Scientific article – a peer-reviewed scientific article in a journal excerpted by WoS, SCOPUS, or MathSciNet, or in the proceedings of a conference excerpted by WoS, SCOPUS, or MathSciNet or classified in the CORE ranking.

Lead author – the author who has the greatest contribution to the publication. There is only **one lead author** for each publication. In the fields of study at the FEE, except for mathematics, it is almost always the first author. If more than one author has an equal share in the work, **only the first author** is considered the lead author. In cases where the declared lead author is not the first author, the Branch Board decides, considering the **Authorship Statement/Contribution** of each co-author.

Techniques for Analyzing Frequency Selective Surfaces—A Review

RAJ MITTRA, FELLOW, IEEE, CHI H. CHAN, MEMBER, IEEE, AND TOM CWIK
Invited Paper

DETERMINANTS IN JORDAN MATRIX ALGEBRAS

JAN HAMHALTER, ONDŘEJ F.K. KALENDA, AND ANTONIO M. PERALTA

ABSTRACT. We introduce a natural notion of determinant in matrix JB^* -algebras, i.e., for hermitian matrices of biquaternions and for hermitian 3×3 matrices of complex octonions. We establish several properties of these determinants which are useful to understand the structure of the Cartan factor of type 6. As a tool we provide an explicit description of minimal projections in the Cartan factor of type 6 and a variety of its automorphisms.

in Mathematics : alphabetical order of authors



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**I am a great believer in luck.
The hard I work, the more I have it.**

Thomas Jefferson
3rd US president

Good luck in your PhD studies!

