

UNIVERSITY OF WEST BOHEMIA

The University of West Bohemia is located in Pilsen, Czech Republic. It was founded in 1991 with history going to the year 1949. It has 9 faculties with nearly 60 departments and 2 institutes of higher education. Approximately 12,000 students can choose from a wide range of undergraduate, postgraduate and doctoral programs in Czech or English.

FACULTY STUDY PROGRAMS

Bachelor's programs (3 years)

 Electrical Engineering and Information Technology


Master's programs (2 years)

 Electronics and Information Technology

- *Specialization Electronics*
- *Specialization Power Electronics*
- *Specialization Information and Communication Technologies*

 Electrical Power Engineering

- *Specialization Power Electronic Technologies and Drives*
- *Specialization Electric Machines*
- *Specialization Electrical Power Engineering*

 Materials and Technologies for Electrical Engineering

Doctoral programs (4 years)

-  Electrical Power Engineering
-  Electronics
-  Electrical Engineering

The tuition fee in English study programs is 4000 EUR per year. If you study in Czech language, you study for free (B1+ certificate required).

We also offer various scholarships, in overall amount up to 4500 EUR / year.

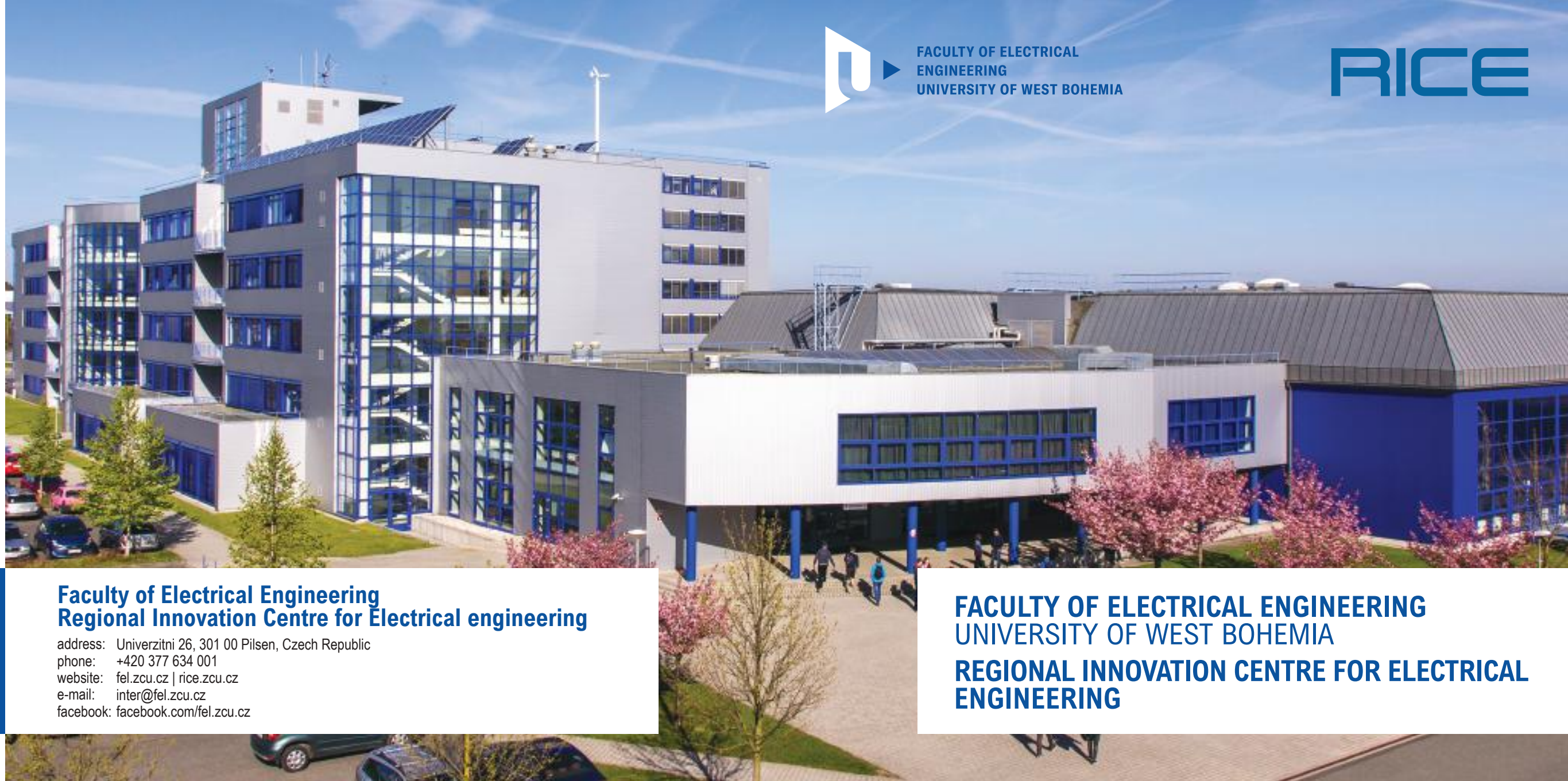
Faculty of Electrical Engineering Regional Innovation Centre for Electrical engineering

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FACULTY OF ELECTRICAL
ENGINEERING
UNIVERSITY OF WEST BOHEMIA

RICE



FACULTY OF ELECTRICAL ENGINEERING
UNIVERSITY OF WEST BOHEMIA
REGIONAL INNOVATION CENTRE FOR ELECTRICAL
ENGINEERING

FACULTY OF ELECTRICAL ENGINEERING



The Faculty of Electrical Engineering is part of the University of West Bohemia. It prepares professionals for rewarding careers in different spheres of electrical engineering (electronics and telecommunications, power electrical engineering, power electronics and drives, theoretical electrical engineering, diagnostics and special materials for electrical engineering, etc.). Both employees and students of the Faculty actively participate in research and development projects, carried out hand in hand with industrial partners. Major leading businesses are keen to hire new graduates, as they acquire the most up-to-date knowledge and practical skills.

An important part of the Faculty is the Regional Innovation Centre for Electrical engineering (RICE). This unique R&D center secures a complete research chain, from basic theoretical research through applied research to the development and testing of functional samples and prototypes.

According to the main research and development activities, the Faculty of Electrical Engineering is divided into five departments and one other workplace:

- ▶ Department of Electronics and Information Technology
- ▶ Department of Power Engineering
- ▶ Department of Power Electronics and Machines
- ▶ Department of Materials and Technology
- ▶ Department of Electrical and Computational Engineering
- ▶ Regional Innovation Centre for Electrical engineering

REGIONAL INNOVATION CENTRE FOR ELECTRICAL ENGINEERING



RICE - the Regional Innovation Centre for Electrical engineering is a research center at the Faculty of Electrical Engineering of the University of West Bohemia in Pilsen. **RICE covers the complete research chain**, starting with basic theoretical research, through applied research, up to development and testing of functional samples and prototypes. RICE employs close to 250 researchers and participates in R&D projects with a total budget approaching 200 mil. USD. It is a leader/coordinator of more than 70% of these projects. RICE features the outstanding research infrastructure, such as **world-unique hall laboratory/testing facility for medium-voltage power electronics and transport systems allowing testing up to 31 kV / 4 MWAC**, special laboratories focused on material research particularly in organic-based sensors, including so-called "clean rooms", special microscopic laboratories, or X-ray diagnostics, EMC and acoustics laboratories.



RESEARCH TARGETS

INDUSTRIAL AND R&D PARTNERS

RICE CORE COMPETENCIES

- ▶ Power electronics & drives
- ▶ Material research
- ▶ Electronics, embedded systems, ICT
- ▶ Control theory, modeling and computation
- ▶ Diagnostics, testing and validation

TRANSPORT SYSTEMS

- ▶ Traction vehicles and systems
- ▶ Automotive (HEV/FEV)
- ▶ E-mobility and complex transport systems

POWER ENGINEERING

- ▶ Nuclear technology
- ▶ New technologies for the production of electricity and heat
- ▶ Smart grids and smart cities
- ▶ MV power electronics
- ▶ Renewable energy sources

MOLECULAR ELECTRONICS AND SENSORS

- ▶ Organic electronics and semiconductors
- ▶ Printed and flexible electronics
- ▶ Mikrovia and embedded technology
- ▶ Sensors and "smart" sensor systems
- ▶ Smart textiles