



FACULTY OF ELECTRICAL
ENGINEERING
UNIVERSITY OF WEST BOHEMIA

#FEELPízen



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ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY



SEMESTER COMPULSORY COURSES

- ▶ Mathematics 1
- ▶ Matrix calculus
- ▶ Introduction to information technologies
- ▶ Work safety in electrical engineering
- ▶ Technical documentation and CAD systems
- ▶ Basics of electrical engineering
- ▶ Theoretical electrical engineering 1
- ▶ Basics of programming for electrical engineering

ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY



SEMESTER COMPULSORY COURSES

- ▶ Mathematics 2
- ▶ Probability and statistics
- ▶ Electrical measurements
- ▶ Electrotechnical materials
- ▶ Physical electronics
- ▶ Modeling in Matlab and Simulink
- ▶ Theoretical electrical engineering 2

ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY



SEMESTER COMPULSORY COURSES

- ▶ Mathematics 3
- ▶ Basics of mechanics
- ▶ Basics of electronics
- ▶ Electrical appliances
- ▶ Electrical machines
- ▶ Theoretical electrical engineering 3
- ▶ Basics of automation in electrical engineering

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4th SEMESTER COMPULSORY COURSES

- ▶ **Physics for FEE**
- ▶ **Electric power engineering 1**
- ▶ **Technologies for electrical engineering**
- ▶ **Application of computational methods**
- ▶ **Drives and power electronics**
- ▶ **English 4 for electrical engineers**

4th SEMESTER COMPULSORY - OPTIONAL COURSES

- ▶ **Automation in power systems and electrical power engineering**
- ▶ **Analog electronic systems**
- ▶ **Technological processes**

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5th SEMESTER COMPULSORY COURSES

- ▶ Electronic communications
- ▶ Measurement and testing of electrical equipment
- ▶ Electrodynamics

5th SEMESTER COMPULSORY - OPTIONAL COURSES

- ▶ Electronic systems
- ▶ Diagnostics of electrical equipment
- ▶ Organic hybrid electronics
- ▶ Production management and management in electrical engineering
- ▶ Digital electronic systems
- ▶ Programming in electronics
- ▶ Signals and systems
- ▶ Design of electronic devices
- ▶ Electric power engineering 2
- ▶ Design of electrical machines
- ▶ Theory of electrical machines
- ▶ Power electronics

ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY

6th

SEMESTER

STATE EXAM TOPICS

- ▶ Final project
- ▶ Theoretical electrical engineering
- ▶ Electronics and information technology
- ▶ Power systems and electrical power engineering

6th

SEMESTER

COMPULSORY
- OPTIONAL COURSES

- ▶ Microprocessors and computers
- ▶ Entrepreneurship in electrical engineering

6th

SEMESTER

COMPULSORY
- OPTIONAL COURSES

- ▶ Audiovisual technology
- ▶ Optical communications
- ▶ Information transfer
- ▶ Electric drives
- ▶ Modeling and simulation
- ▶ High voltage technology
- ▶ Electrochemistry
- ▶ Reliability
- ▶ Microelectromechanical systems and sensors
- ▶ Systems and models
- ▶ Design of installations and electrical wiring

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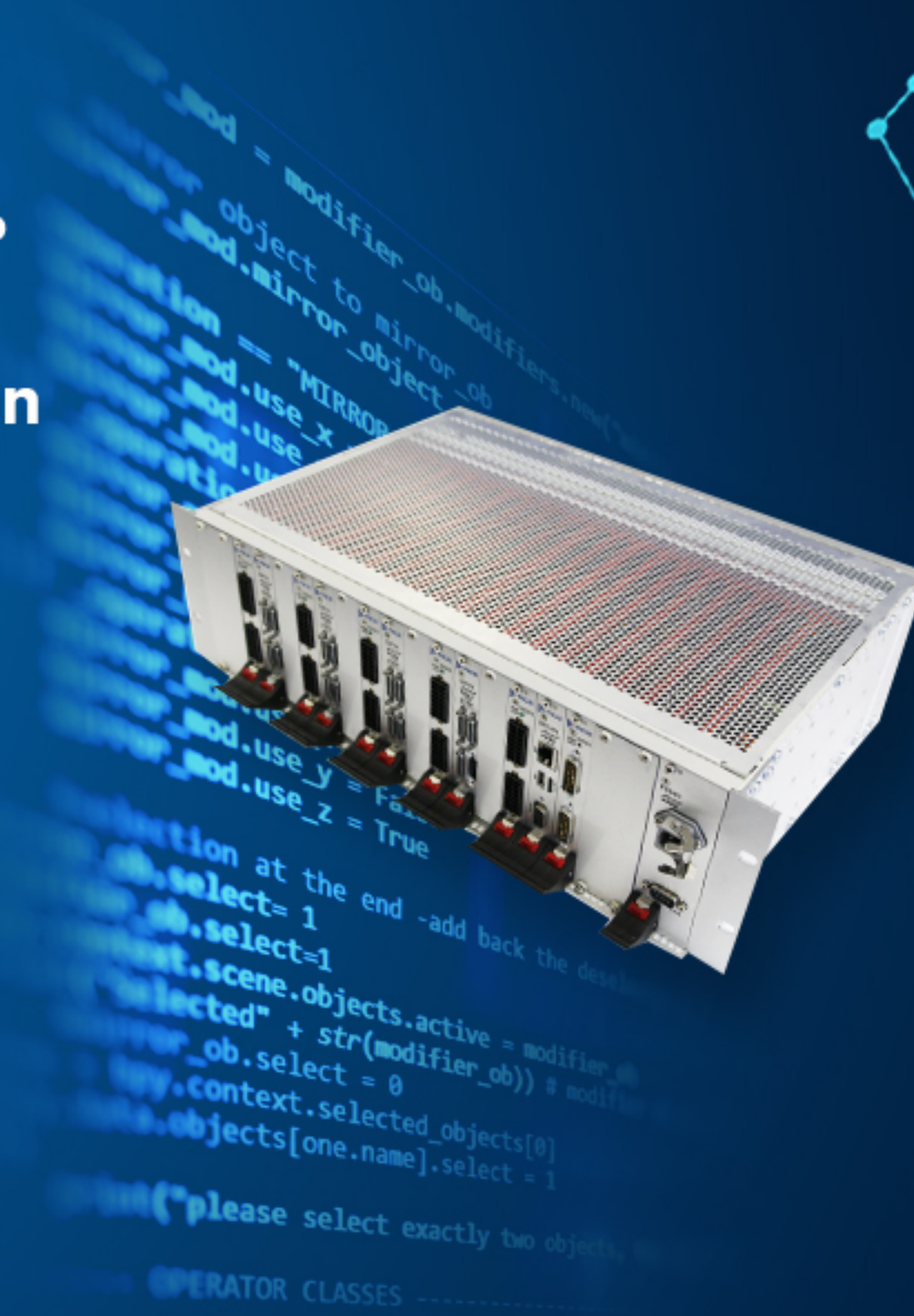
You want to deepen your knowledge of information
and communication technologies or electronics and robotics?

Then focus on courses in the field of electronics and information
technology and gain unique knowledge in the fields:

ELECTRONICS

POWER ELECTRONICS

**INFORMATION AND TELECOMMUNICATION
TECHNOLOGIES**



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Are you interested in transport, energy,
industrial technology or the environment?

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**POWER ELECTRONIC TECHNOLOGIES
AND DRIVES**

ELECTRICAL MACHINES

ELECTRIC POWER ENGINEERING



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Are you interested in smart textiles, printed electronics, nanotechnology
or image diagnostics and process control?

Then focus on courses in the field of materials and technology
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**MATERIALS AND TECHNOLOGIES
FOR ELECTRICAL ENGINEERING**

ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY

Do you have any questions?

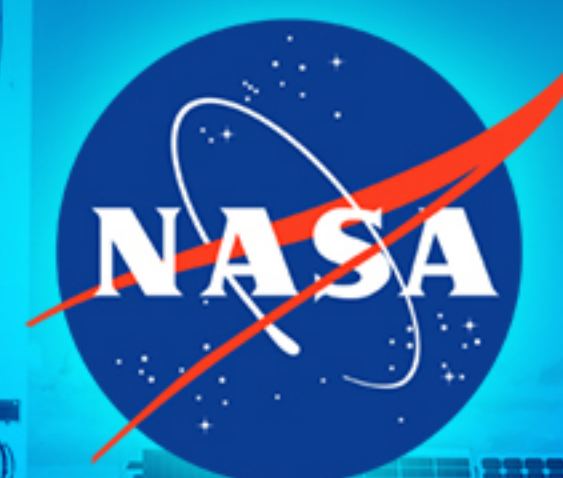
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POSSIBILITY OF COOPERATION, ALREADY DURING THE STUDY,

AND EMPLOYMENT WITH LEADING GLOBAL AND DOMESTIC COMPANIES:

ZF, EATON, ČEZ, ČEPS, E.ON, ŠKODA Electric, ŠKODA Transportation,
Škoda Auto, Honeywell, Infineon, Semikron, ST, WIKOV, ZAT, AKKA (MBtech),
ABB, Siemens, WITTE Automotive, Valeo, ...

We collaborate with the best!



And more...



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