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JOSIP JURAJ STROSSMAYER  
UNIVERSITY OF OSIJEK



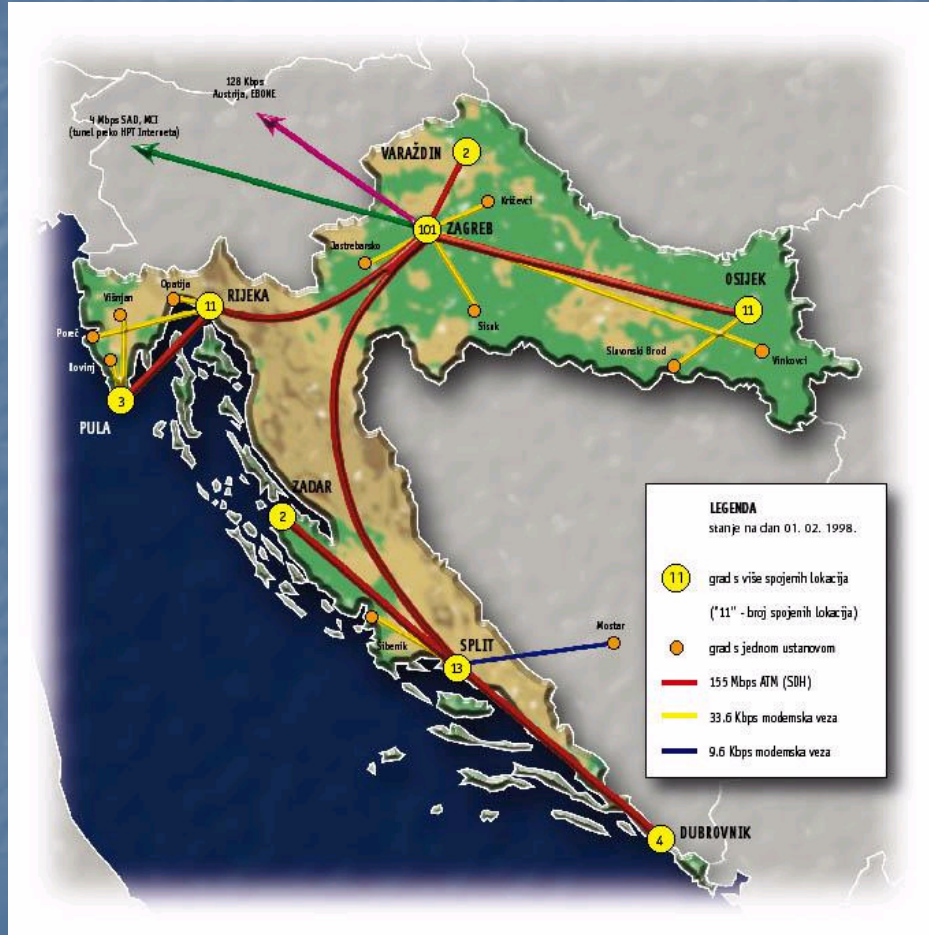
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# UNIOS POSITION IN CROATIA



- EASTERN PART OF CROATIA
- 287 KM FROM ZAGREB
- 250 KM FROM BUDAPEST
- 5 COUNTIES WITH 900 000 CITIZENS
- 2 AIRPORTS
- HARBOUR ON RIVER DRAVA



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## **FACULTIES:**

- **AGRICULTURE**
- **CIVIL ENGINEERING**
- **ECONOMICS**
- **EDUCATION**
- **ELECTRICAL ENGINEERING**
- **FOOD TECHNOLOGY**
- **LAW**
- **MECHANICAL ENGINEERING**
- **MEDICINE**
- **TEACHING TRAINING**
- **INST. APPLIED MATHEMATICS**





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## FUNDAMENTAL FACTS IN 2005/2006

- ***HIGH SCHOOL BEGINS IN 1707***
- ***MODERN EDUCATION SINCE 1959 IN FACULTY OF ECONOMICS***
- ***TEACHING STAFF: 611 TOTAL***
  - ***399 PhD***
  - ***369 PROFESSORS***
- ***STUDENTS: 16922 TOTAL***
  - ***2938 NEW IN 1ST YEAR OF 36 BSc STUDIES***
  - ***1628 NEW IN 1ST YEAR OF 13 SPECIALIST STUDIES***
- ***BOLOGNA PROGRAMS SINCE 2005/2006***



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## SCIENTIFIC ACTIVITIES

- *39 SCIENTIFIC PROGRAMS, 140 SCIENTIFIC PROJECTS BY CROATIAN MINISTRY OF SCIENCE*
- *55 PROGRAMS IN 72 PROJECTS IN PARTNERSHIP*
- *72 MSc AND 22 PhD PROMOTIONS AT UNIOS*



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## UNIVERSITY CAMPUS

- *232 048 M2*
- *NEW STUDENT HOSTEL 9 909 M2, FOR 504 STUDENTS*
- *NEW BUILDING FOR AGRICULTURE FACULTY*
- *NEW BUILDINGS FOR OTHER FACULTIES IN 2ND PHASE*



# FACULTY OF ELECTRICAL ENGINEERING



*Kneza Trpimira 2b, 31000 Osijek, Croatia*

*tel: 031/224 600, fax: 031/224 605*

*[www.etfos.hr](http://www.etfos.hr)*



# FACULTY OF ELECTRICAL ENGINEERING

## BRIEF HISTORY

- 1978. FOUNDED AS A COLLEGE OF ELECTROMECHANICAL ENGINEERING
- 1981. INDEPENDENT UNIVERSITY INSTITUTION
  
- 1985. REGISTERED AS SCIENTIFIC AND RESEARCH ORGANIZATION
- 1990. FACULTY OF ELECTRICAL ENGINEERING, Bsc. EDUCATION
- 1991.-1994. *WAR PERIOD, TWO ASSISTANTS AND 5 STUDENTS KILLED*
- 1995. STUDIES PROGRAM IN TWO DIRECTIONS:
  - POWER ENGINEERING
  - ELECTRONICS & AUTOMATION
- 2000. STUDYING DIRECTION: COMPUTING & COMMUNICATIONS
- 2003. NEW DIRECTIONS:
  - POWER ENGINEERING
  - COMMUNICATIONS & INFORMATICS
  - AUTOMATION & PROCESS COMPUTER ENGINEERING
- BOLOGNA PROGRAM 2005/2006:
  - ELECTRICAL ENGINEERING STUDY
  - COMPUTER ENGINEERING

# FACULTY OF ELECTRICAL ENGINEERING

## TEACHING STAFF

- **PROFESSORS:**
  - 8 FULL PROFESSORS
  - 5 ASSOCIATE PROFESSORS
  - 6 ASSISTANT PROFESSORS
- **ASSISTANTS:**
  - 4 SENIOR ASSISTANTS
  - 11 ASSISTANTS
  - 7 JUNIOR ASSISTANTS
  - 14 JUNIOR RESEARCHERS
- **EXTERNAL ASSOCIATES:**
  - 10 PROFESSORS
  - 7 ASSISTANTS

■ **56 TOTAL STAFF: 21 PhD ; 16 MSc; 19 OTHERS**

# FACULTY OF ELECTRICAL ENGINEERING ORGANIZATION

- **ADMINISTRATION:**

- **DEAN**

- ***Prof.dr.sc. Radoslav Galić***

- **VICE-DEAN FOR SCIENCE**

- ***Doc.dr.sc. Goran Martinović***

- **VICE-DEAN FOR EDUCATION**

- ***Doc.dr.sc. Damir Šljivac***

- **VICE DEAN FOR COOPERATION**

- ***Prof.dr.sc. Srete Nikolovski***

- **SECRETARY**

# FACULTY OF ELECTRICAL ENGINEERING ORGANIZATION

- **FACULTY SENATE:**

- *FULL PROFESSORS*
- *ASSOCIATE PROFESSORS*
- *ASSISTANT PROFESSORS*
- *REPRESENTATIVES:*
  - *TEACHING STAFF*
  - *ASSOCIATES*
  - *STUDENTS*

# FACULTY OF ELECTRICAL ENGINEERING

## DEPARTMENT ORGANIZATION

- *AUTOMATION & PROCESS CONTROL DEPARTMENT*
- *COMPUTING DEPARTMENT*
- *COMMUNICATION DEPARTMENT*
- *FUNDAMENTALS OF ELECTRICAL ENGINEERING,  
MEASUREMENTS AND MATERIALS DEPARTMENT*
- *MATHEMATICS AND PHYSICS DEPARTMENT*
- *POWER ENGINEERING AND ELECTRICAL MACHINES  
DEPARTMENT*

# FACULTY OF ELECTRICAL ENGINEERING LABORATORIES ORGANIZATION

- *FUNDAMENTALS OF ELECTRICAL ENGINEERING*
- *PHYSICS*
- *POWER ENGINEERING, EL. MACHINES & EL. DRIVES*
- *ELECTRICAL MEASUREMENT*
- *POWER DISTRIBUTIVE NETWORKS*
- *RELAY SAFETY*
- *AUTOMATION & PROCESS CONTROL*
- *DIGITAL ELECTRONICS*
- *COMMUNICATIONS*
- *FUNDAMENTALS COMPUTING & COMPUTER GRAPHICS*
- *COMPUTER ARCHITECTURE*
- *ARTIFICIAL INTELLIGENCE*
- *APPLIED COMPUTING*
- *MULTIMEDIA*
- *OPTOELECTRONICS*
- *BIOMEDICAL ELECTRONIC*

# STUDYING PROGRAMS UNIVERSITY PROGRAM

- *BSc degree PROGRAM-6 semesters:*
  - **COMMON PREPARING STUDY 2 SEMESTERS**
  - **ELECTRICAL ENGN STUDY 4 SEM- 130 stud**
  - **COMPUTER ENGN STUDY 4 SEM- 130 stud**
- *MSc degree PROGRAM- 4 semesters*
  - **POWER ENGN ENGN**
  - **COMMUNICATION**
  - **COMPUTER ENGN**
- **SCIENTIFIC POSTGRADUATE PROGRAM 6 SEM**

# STUDYING PROGRAMS SPECIALIST PROGRAM

## *BSc DEGREE*

*127 STUDENTS IN OSIJEK*  
*75 STUDENTS IN VINKOVCI (60 KM)*

*6 SEMESTER IN 3 DIRECTIONS:*

- *POWER ENGINEERING*
- *ELECTRONICS & AUTOMATION*
- *COMPUTING & COMMUNICATION*

*PROFESSIONAL POSTGRADUATE PROGRAM*



# INTERESTING COURSES

- 1 YEAR

- PROGRAMMING 1 2+2 5 ECTS
- PROGRAMING 2 2+2 5 ECTS

- 2 YEAR

- DIGITAL ELECTRNICs 2+1+1+1 6 ECTS
- OBJECT ORIENTED PROG 2+1+2 6
- COMPUTER ARCHITECTURE 2+1+1 6
- SIGNALS AND SYSTEMS 2+1+1 5,5
- OPERATING SYSTEMS 3+2 5,5
- INFORMATICS 3+1+1 5,5

- 3 YEAR

- COMMUNICATION NETWORKS 3+1+1 5,5
- DATA BASES 3+1+1 6
- MODELLING AND SIMULATION 2+1+1 5
- ALGORYTHMS AND DATA STRUCTURE 3+1+1 6

## ***SOME PROJECTS FINANCED BY CROATIAN MINISTRY OF SCIENCE 2001.***

- Industrial AI systems
- Fault tolerant control and diagnostic systems
- Electrical circuits chaotic behaviour
- Power consumption efficiency in region Slavonia and Baranja
- Infrared humidity measuring
- Power transducer model development with power dissipation optimisation
- Digital broadcasting in frequency range under 30 MHz
- Power system reliability in nonregulated market conditions

# ***DISTANCE LEARNING IN CROATIA***

- ◆ *JANUARY 1997. FIRST EXPERIMENTAL REMOTE LECTURE IN CROATIA*
- ◆ *CONNECTION BETWEEN **FER** IN ZAGREB AND FACULTY OF EENG IN OSIJEK*
- ◆ *CONNECTION VIA CARNET*
- ◆ *ATM TECHNOLOGY, OPTICAL CABLE, 155 MBPS*
- ◆ *LIVE PICTURE AND SOUND FULL DUOPLEX*
- ◆ *POSSIBILITY OF 10 CONCURRENT LECTURES THROUGH 1 LINK*
- ◆ *ORDINARY TEACHING SINCE SEPTEMBER 1997*
- ◆ *TEACHING COURSE "SIGNALS AND SYSTEMS", 30 STUDENTS*
- ◆ *SOFTWARE: NETMEETING, POWERPOINT, MATLAB (SIMULINK)*
- ◆ *REMOTE EXERCISES AND SIMULATION*
- ◆ *REMOTE EXAMINES*

# FACULTY OF ELECTRICAL ENGINEERING INTERNATIONAL COOPERATION

- ❖ UNIVERSITY OF APPLIED SCIENCE, **BREMEN, GERMANY;**
- ❖ UNIVERSITY OF APPLIED SCIENCE, **SCHWEINFURT, GERMANY;**
- ❖ UNIVERSITÄT DES SAARLANDES, **SAARBRÜCKEN, GERMANY;**
- ❖ FAKULTÄT MATHEMATIK UND INFORMATIK, **PASSAU, GERMANY;**
- ❖ FACHHOCHSCHULE ALBSTADT, **ALBSTADT, GERMANY;**
- ❖ KANDO KALMAN FACULTY OF EL.ENGN., **BUDAPEST, HUNGARY;**
- ❖ TECHNISCHE UNIVERSITÄT **GRAZ, AUSTRIA;**
- ❖ INT. ZENTRUM FÜR INFORMATIK, **DAGSTUHL, GERMANY;**
- ❖ POLLACK MIHALY COLLEGE OF ENGINEERING, **PECS, HUNGARY;**
- ❖ FACULTY OF EL. ENGN. & INF. TECHNOL. **BRATISLAVA, SLOVAKIA;**
- ❖ EUROPEAN EMTP-ATP USERS GROUP E.V. **OSNABRÜCK, GERMANY;**
- ❖ TECHNISCHE UNIVERSITÄT **MÜNCHEN, GERMANY;**
- ❖ ESAIP, ST. BARTHOLEMY, **ANGERS, FRANCE.**

THE END

*THANK YOU and WELCOME*

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Prof.dr.sc.Željko Hocenski

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