



**“Dunărea de Jos” University of Galați, Romania**  
**Faculty of Electrical & Electronics Engineering**  
Str. Domnească, nr. 111, 800201, Galați, Romania  
Tel/Fax: (004)0236-470905  
URL: <http://www.fie.ugal.ro>



*Building Y - The main building of the faculty*

**Short history:** Electrical engineering, as teaching and research activities, has more than 30 years old at the "Dunărea de Jos" University of Galați. The 1978 year was the start point of the doctoral studies and school in the electrical engineering field. In 1990 was founded the Electrical Engineering and Ships Faculty. A new faculty was organized in 2002, with the name of the Faculty of Electrical Engineering and Computer Science. In 2004 the faculty has been reorganized and the actual name is the Faculty of Electrical and Electronics Engineering.

**Staff & Departments:** Our faculty has more than 800 students, a teaching staff of approximately 48 members, of which 19 hold a PhD degree, and 18 preparing a PhD thesis. There are three departments:

- Electronics and Telecommunications
- Electrotechnics, Electrical Machines and Instalations
- The Engineering of the Electrical Energy Conversion

**Teaching: graduation (1<sup>st</sup> Cycle) – 4 years:**

- Power Electronics and Electrical Drives – *in French*
- Power Electronics and Electrical Drives
- Electromechanics
- Applied Electronics
- Technologies and Telecommunications Systems

**Teaching: master (2<sup>nd</sup> Cycle) – 1,5 years:**

- Informatized Systems for Control, Transport and Distribution of the Electrical Energy
- Electrical Drives and Power Electronics
- Information Processing for Multimedia and Communications – *in English*
- Advanced Techniques for Information Processing

**PhD supervisors:**

- Eng. PhD University Professor Emil Ceangă – Automatic Systems and Control
- Eng. PhD University Professor Emil Roșu – Electrical Engineering
- Eng. PhD University Professor Dumitru Călușeanu – Electrical Engineering

**Research:** The scientific research is developed around Research Grants with the Romanian National University Research Council (NURC) and National Excellency Research Programms (like CEEEX – 2006). The research results are made known in journals, or in international and national conferences proceedings. Nowadays there are two research centers in the faculty:

- Advanced Techniques for Process Control
- Informatized Electromechanical Systems



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## Department of Electronics and Telecommunications

Department Website: <http://www.etc.ugal.ro>

### Applied Electronics – Main courses:

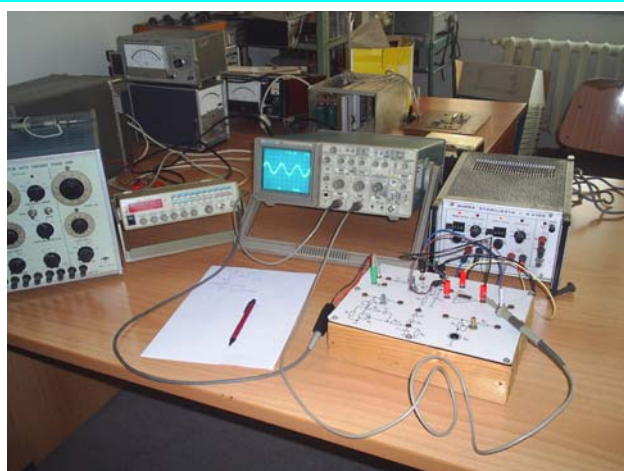
- Analog and Digital Electronics
- Signals and Circuits
- Transmission Theory of Information
- Data Acquisitions
- Digital Signal Processing
- Electronic Measurements
- Industrial Electronics
- Medical Electronics
- CAD for Electronic Design

### Technologies and Telecommunications Systems – Main courses:

- Analog and Digital Electronics
- Signals and Circuits
- Transmission Theory of Information
- Digital Signal Processing
- Analog and Digital Communications
- Radiocommunications
- Communications Networks
- Signal Processors for Telecommunications
- Data Compression and Security



*A Robot Arm driven by Internet*



*A Laboratory Stand*

### Research grants:

- Researchs for metamodeling, and intelligent simulation in the modeling technology based on objects, and Researchs in artificial intelligence for autonomous vehicles (grants NURC)
- Researchs in teleoperation for education purposes and Researchs in artificial vision for multiple robots (grants CEEEX)
- Smart Embedded Network of Sensing Entities (partener FP6-EU)



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## Department of the Engineering of the Electrical Energy Conversion

Department Website: <http://www.iscee.ugal.ro>

### Power Electronics and Electrical Drives –

#### Main courses:

- Theory of Automatic Control
- Static Converters
- Electrical Machines
- Electrical Measurements
- Electrical Drives Systems
- Microprocessors and Programmable Automata
- Data Acquisition and Data Processing



### Power Electronics and Electrical Drives (*in French*) –

#### Main courses:

- Théorie de réglage
- Convertisseurs statiques
- Machines et transformateurs électriques
- Techniques de identification
- Electronique de puissance et actionneurs électriques
- Microprocesseurs et automates programmables
- Systèmes d'acquisition des données



*In the Electric Drives Laboratory*

### Research grants:

- Ecological equipments and technologies for efficient conversion of renewable energies
- Advanced control methods for efficient energy production

### Another research topics:

- Conversion of renewable energies
- Energetic optimization of electric drives systems
- New hard and control structures for static converters
- Active filters and clean energy

### International contacts:

There are some international cooperations and SOCRATES programmes for the mobility of the students with some prestigious universities: University Le Havre – France, University de Lille – France, University Aalborg – Denmark, and University from Rimuski – Canada.



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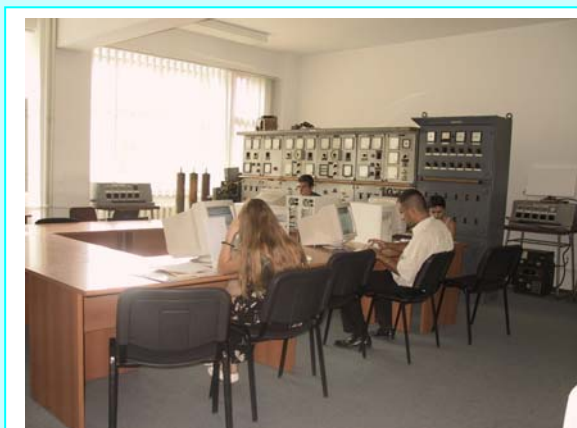


## Department of Electrotechnics, Electrical Machines and Instalations

Department Website: <http://www.emie.ugal.ro>

### Electromechanics – Main courses:

- Electrotechnics
- Electrical Machines
- Static Converters
- Electric Measurements
- Data Acquisition and Signals Processing
- Electric Drives
- Electrical Traction
- Sources of Energy
- Naval Electric Drives
- Electromagnetic Compatibility
- Electric Power Transmission and Delivery



*Electrical Equipments Laboratory*



*Power Delivery Laboratory*

### Research grants:

- A method for evaluation and increasing of efficiency in power networks – National Program Research – MENER
- Research and experiments for a new family of indirect alternative choppers – Grant NURC
- Safety and reliability of industrial products, systems and structures – International Research and Technological Development Project

### Research topics:

- Electric Power Efficiency and Quality
- Renewable Energy
- Reliability, Maintainability, Diagnosis
- Electric Power Conversion

### Mailing Address:

Universitatea “Dunărea de Jos” din Galați  
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### Contact:

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