



Faculty of Electrical Engineering, University of Sarajevo



WHO WE ARE:

The Faculty of Electrical Engineering in Sarajevo was established in 1961. Its first generation of students enrolled a year earlier within the pre-existing Technical Faculty in Sarajevo, Bosnia and Herzegovina. In 2010, the faculty is celebrating its 50th anniversary.

Currently, the faculty is located at the University of Sarajevo campus, which is situated in the city center. For certain specialised tasks, the faculty uses facilities in public companies, including Elektroprivreda (power company) B&H and Telecom B&H.

Study programme curricula comply with the Bologna process principles and credit system (ECTS – European credit transfer system) and there are two cycles of studies. The first cycle lasts for six semesters (180 ECTS), leading to the diploma of Bachelor of Electrical Engineering in one of the following disciplines: Automatic Control and Electronics, Computing and Informatics, Electrical Power Engineering, Telecommunication. The second cycle lasts for four semesters (120 ECTS) and ends with a title of Master of Electrical Engineering in one of the four disciplines.

This Bologna harmonised curriculum enables student mobility as well as diploma recognition within the European Higher Education Area (ERA and EHEA). After finishing the first (Bachelor) and second (Master) cycles, students are able to choose whether to find employment or continue studying in the third cycle (Doctorate), lasting three more years (180 ECTS points). Its completion gives students the title of Doctor of Technical Sciences. Third cycle of studies at the Faculty of Electrical Engineering – Sarajevo is planned to start in October 2010, just after the first generation of second cycle master students has obtained their diplomas.

In order to attain international verification and recognition of curricula quality, the faculty is undergoing its curricula accreditation by ASIIN, the renowned European accreditation agency in Germany. During fall semester of 2008/9 academic year, the faculty successfully completed the test accreditation of its first cycle curriculum at the Department of Computing and Informatics. After that it has prepared documents and submitted an application for assessment and accreditation of all four study programmes at the first Bachelor cycle and the second cycle of Master study programmes.

The faculty's teaching staff, full and part time, is very active in scientific research and professional work, despite the very modest laboratory resources that the faculty has nowadays. The Faculty of Electrical Engineering – Sarajevo organises international scientific gatherings and symposia, which are the successors of some well-known and very referent symposia from the past. These include:

- ICAT, bi-yearly symposium on Information, Communication and Automation technologies (during odd years).

- BIHTEL, bi-annual symposium on Telecommunications (during even years).

The Faculty of Electrical Engineering – Sarajevo is a member of the HP-SUA (Hewlett Packard Software University Association), which is an important and renowned international association.

COLLABORATION INTERESTS:

The Faculty of Electrical Engineering is trying to establish partnerships and form projects consortiums with numerous faculties and research institutions with which it has signed and developed cooperation and collaboration agreements.

In some instances, researchers at the faculty use various services like Ideal-ist and "Find project partner" on the CORDIS website, EEN (Enterprise Europe Network), NCP (National contact point of Bosnia Herzegovina) and other specialised mediator organisations. The faculty and its researchers are looking for partners in order to participate in the application and proposal submission process at a plethora of funding sources. FP7 is the most visible and desirable one, but other funding sources include: EU WINS-ICT, ICT-WEB-PROMS, EURED, EUREKA, TEMPUS, SCORE, COST, SEE-ERA-NET, etc. In these project proposals and consortium creation activities, the Faculty of Electrical Engineering – Sarajevo and its researchers are ready to play all potential roles during future project collaboration, including project coordinator, research partner, scientific expert, and/or consultant.

AREAS FOR R&D COLLABORATION:

The areas of collaboration and cooperation in potential projects, funded by the EU funding schemes, are in the fields of scientific research and development where the faculty with its laboratories and its researchers has vast experience. The faculty also has a good reputation as well as continuing interest and perpetuation of activities and efforts in the following fields:

- R&D in the area of safety instrumented systems;
- R&D in the area of embedded system and related real-time operating systems for distributed and multicore architectures;
- R&D in the area of renewable energy sources and quality of energy supply;
- R&D in the area of smart electrical grids including AMR and AMM;
- R&D in artificial intelligence;
- R&D in wireless networks and QoS within these networks;
- R&D in the area of software engineering related to workflow and document management;
- R&D in the area of mobile robotics;
- R&D in the area of control system architectures and algorithms;
- R&D in the area of computer graphics;



WHAT MAKES US A GOOD PARTNER?

The Faculty of Electrical Engineering, as a member of project consortiums, as a research partner or a participant in projects, has always been recognised and praised by project coordinators, project leaders and project contractors as a timely and responsible party, whose results and deliverables were judged with high marks and were praised for their scientific quality. The faculty considers these as valuable assets that it will bring to any new partnership when looking for forming or participating in a consortium.

IMPLEMENTED PROJECTS:

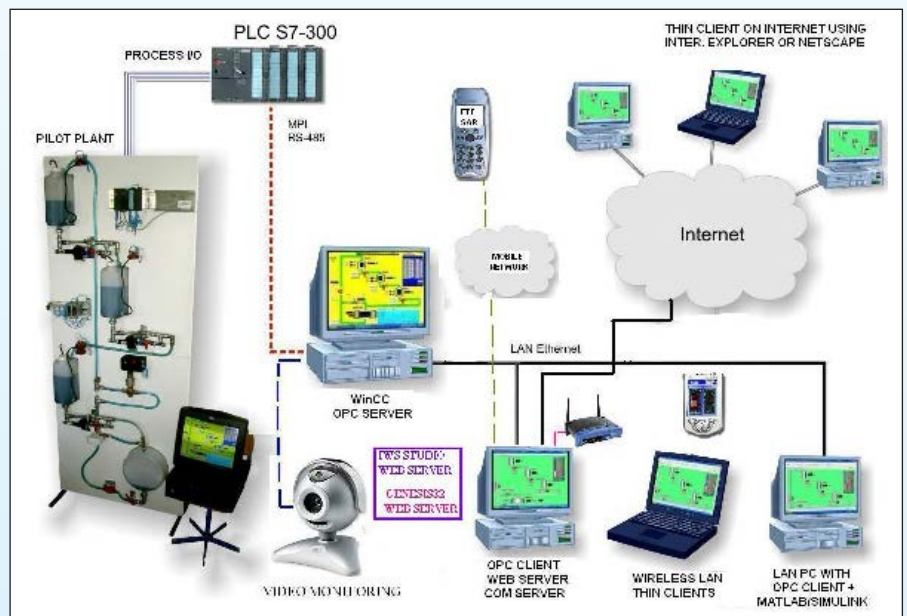
Implemented projects include those within the framework of FP7, FP6, Tempus, UNESCO, and others. The following is a selected list of such projects:

lected list of such projects:

- V-MusT.net – Virtual Museum Transnational Network, funded by FP7, research partner.
- Expanding the European research network in South-East Europe by providing GEANT. connectivity to non-GEANT countries. Funded by FP6 EU Information Society Technologies (IST) Programme, research partner, 2004-2007.
- IT qualification standards for higher education area in B&H, funded by Tempus, project partner, 2006-2009.
- Virtual 3D Reconstruction of Cultural Heritage Sites in Bosnia and Herzegovina, funded by UNESCO, project leader, 2005-2006.

Topology of online Internet accessible laboratory I-Lab

Development and implementation of online Internet laboratories (I-Lab)
Project contractor:
Canton Sarajevo ministry of education and science
Project timeframe: 2007-2008



Virtual Sarajevo

Project contractor: BH-Telecom

Project implementation partner: BH-Telecom

Project timeframe: 2005-2006

Virtual City of Sarajevo

Sarajevo, the capital of Bosnia and Herzegovina, is inhabited since 5000 years ago.

From the first neolithic settlements in Butmir, here lived the Illyrians, Romans, Slavs. The city was governed by Ottomans and Austro-Hungarians and has always been a place where the East meets the West. Many people call Sarajevo the European Jerusalem, as there are, next to each other, the mosques, catholic and orthodox churches and Jewish synagogues. Mutual respect of the different religions and nations is a part of the everyday life.

The heart of the old Sarajevo, Baščaršija, is presented by:

- panoramic photographs
- video walkthrough files of the streets
- stories about the significant places and objects
- virtual models of the cultural heritage objects

We hope this virtual walk shall be an inspiration for the recent visit to our city.

bh

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About Project | Panoramas | Video | Stories | VRML | Bosanski

OTHER INFORMATION:

Name of the organisation: Faculty of Electrical Engineering, University of Sarajevo

Organisation type: Institution of higher education

Names of the research departments:

- Department for automation and electronics
- Department for computing and informatics
- Department for telecommunications
- Department for telecommunications

Number of researchers: 60

Working languages: Bosnian and English

Web page: www.etf.unsa.ba

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