

**SEE- Award (name "Herman Potočnik – Noordung Award" proposed by MHEST) for
Research Infrastructure Donations within the Framework of RTDI Collaboration
with West Balkan Countries**

**Research Infrastructure needs
- Application form for Scientific & Research Institutions from West Balkan Countries**

Section A – General information
A.1 Contact details
Name of applicant /(institution) Faculty of Electrical Engineering of Sarajevo, Department of Automatic Control and Electronics
Legal status / Type of organisation: GOV
Address (Street name, ZIP code, town): Zmaja od Bosne bb, 71000, Sarajevo
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represented by (name of person <u>legally responsible</u>) Prof. Kemo Sokolija, Dean.
Name of the contact person Adnan Salihbegovic
Address (if different from address stated above) Telephone no.: Fax no.: e-mail: web address/url:
A.2 Applicant (Institution) profile (half page A4) Faculty of Electrical Engineering of University of Sarajevo, was established 46 years ago, in the year 1961. Currently, Faculty is located within the University of Sarajevo Campus, in renovated building, Recently, faculty of Electrical engineering has been given three additional buildings to expand its teaching and research facilities. During these 46 years of existence, Faculty enrolled 14703 students out of which 4437 had successfully reached the degree of diplomme engineer in one of the four engineering disciplines: <ul style="list-style-type: none"> • Automatic Control and Electronics • Computing and Informatics • Electrical power engineering • Telecommunication and has promoted 289 Master of Science on the postgraduate courses, and 71 Doctors of Science in engineering and technology fields of scientific research. Faculty of Electrical engineering is currently employing 50 teaching staff in full time and around 100 professors and assistants in part time engagements. In current academic year 2007/8, the total of 1622 students have been enrolled on all courses encompassing undergraduate and postgraduate studies. For the time being two undergraduate courses are running at the Faculty concurrently : one according to the old

Curriculum which is including nine semesters or 4.5 years of study, following with additional two semesters within which student has to complete all remaining exams and prepare and defend his diploma thesis. This undergraduate Course is designated as ETF-A Study meaning “Ante Bologna” (Before Bologna). Second undergraduate course which has started in academic year (2005/6) is designated as ETF-B Study, referring to the studies that have been completely modified and reformed to confirm to two cycle Study and ECTS (European Credit Transfer System) of Bologna declaration.

The degree that student shall gain after three years of study in first cycle and collecting 180 ECTS credits , is Bachelor of Engineering in one of the above mentioned engineering disciplines, and Master of engineering after two additional study years and four semesters during which he /she has to gain further 120 ECTS credits, including diploma thesis.

Section B – Description of the research infrastructure requirements/needs

B.1 Please list your research infrastructure requirements – the most urgent equipment you would need.

1. 5 pcs. 48 Ethernet 10/100 ports and 2 dual-purpose uplink ports + FO SFP
2. 2 pcs 24 Ethernet 10/100 ports and 2 dual-purpose uplink ports uplinks + FO SFP
3. Switch with at least 8 FO/1000 ports

Manufacturer and Distributor of all mentioned products is:

Cisco Systems Inc.

B.2 Describe the relevance of the requested research infrastructure for the work of your institution and the potential impact of receiving the items listed above (B.1).

This is, although modest by figures, single the most important investment in research and educational infrastructure that our Faculty needs, since, it will enable us to complete fiber optic backbone which is connecting our main building with three newly allocated ones, and further with European GEANT 2 network.

Faculty of Electrical Engineering, University of Sarajevo has extended its capacity by acquiring and renovating three, previously unused due to war destruction, buildings within university campus. The buildings are prepared and used for teaching and research but currently lack properly implemented network connection with the main building. Requested equipment will provide much needed boost that would enable us to make this necessary steps to fully integrate new buildings into faculty infrastructure. This integration would have direct impact on improved quality of our two main activities, education and research. At the same time, implementation of this campus network backbone could provide us with opportunity to have students take active part and face real word implementation issues while still studying. This campus network would also connect our Faculty with University network centre within campus.

Since our Faculty is also a part of SEEREN 2 project and a potential point were European academic network GEANT 2 will connect to our University network, requested infrastructure improvement would enable adequate connection for the rest of the University through University network centre.

Potential impact of receiving the items listed above could be far reaching. It would improve our basic infrastructure, provide learning opportunity for students, give researchers basis for working on improved network services, and also provide complete University of Sarajevo with much better Internet connection.

B.3 Please indicate the potential users of the requested equipment.

Potential users of the requested equipment are all professors, and teaching staff including students who are engaged in research and development projects. With the specified equipment we shall be able to complete networking of the main building with three new ones and also conenction of our faculty network with SEEREN 2 academic network as part of GEANT 2 European research and education networks that shall soon reach our faculty.

B.4 Please describe the training needs of your institution related to the requested equipment

No external training is needed.

B.5 Please indicate if there is assistance needed with regard to the transportation and maintenance related to the requested equipment


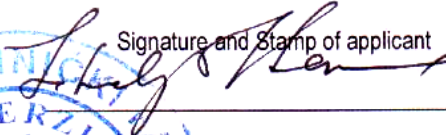
Yes, we need only assistance with regard to transportation of equipment to our faculty

B.6 Additional Comments

This is the most important infrastructural investment that our Faculty needs at the moment, and in financial terms is quite modest, so we hope to be selected by *Herman Potočnik – Noordung Award*, for award.

Please fill in and return the form by email to the contact person in your country (see appendix 1)

Signature and Stamp of applicant



BROS: 02-1-2589/07
DATA, 13. 11. 2007