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ANNUAL JOURNAL

OF

ELECTRONICS

Technical University of Sofia

Faculty of Electronic
Engineering and Technologies

Sponsored by:

Technical University of Sofia

project 141ДН0014-03

Faculty of Electronic Engineering and Technologies

Specialty „Electronics" with updated BSc curriculum.

New MSc program „Microtechnologies and nanoengineering"

BG051PO001-3.1.07-0048 project is on priority axis „Improving the quality of education and training in accordance with the needs of the labor market for creating a knowledge-based economy" within the „Human Resources Development" Operational Programme of the European Union.

Duration of the project is 19 months and 14 days, starting on 18.05.2013 and will end on 31.12.2014. Partners of the project are Visteon Electronics Bulgaria (VEB), Foundation „Information and Communication Technologies" Cluster (ICT) and the Bulgarian Industrial Association - Union of the Bulgarian Business (BIA).

General objectives of the project are: (1) to define the requirements of the market in the field of electronic, communication and industrial engineering and technology, and in accordance with them to update the curricula and the courses in Faculty of Electronic Engineering and Technologies, Faculty of Telecommunications and Faculty of Industrial technology in Technical University of Sofia; (2) to create a new joint master's degree in the field of microtechnology and nanoengineering in accordance with the needs of the labor market.

As a result of the studies made, in the curriculum of „Bachelor of Science" degree in „Electronics" new courses have been included, to improve the practical training of the students („Practical training in open source platforms programming", „Practical training in microcontrollers programming", „Practical training in using of graphical programming environments", „Practical training in design of electronic systems", and etc.). All students study in addition two semesters English language for specific purposes.

It has been proposed „Master of Science" curriculum „Microtechnologies and nanoengineering". The curriculum is designed to develop the skills of the graduated in BSc degree students in the field of electronics, communications and industrial engineering. This is the first project-oriented master program at the Technical University of Sofia, where laboratory work prevails over the lectures. It includes advanced courses up-to-date with educational trends in the world's top universities.

Updated BSc curriculum for specialty „Electronics" and the new MSc curriculum in „Microtechnologies and nanoengineering" have been approved by the Academic Council of the Technical University of Sofia.

Training will start from the Academic year 2014/2015.

The content of the curricula and details for the project are published on the project website at: http://aups.tu-sofia.bg.

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The Journal includes the selected papers from the International Scientific Conference Electronics‘14, held on 11-13 September 2014 in Sozopol, Science Days of Technical University of Sofia, Bulgaria.

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