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DOCMEN

Development of two cycle innovative curricula in microelectronic engineering – DOCMEN

REPORT 30M (up to June 2018)

EUROPEAN UNIVERSITY

1. 1. Curricula/ UPDATED COURSES

Table 1.. UPDATED COURSES				
Course №	Title of the course and in which program it is taught (Bachelor, Master)	Its volume (in ECTS)	Number of students participating in the course	Link to the course on the university page
Bachelor degree. IT & Synopsys				
Course 1	Digital devices and microprocessors	4	25	http://eua.am/wp-content/uploads/2018/04/APPLIED-PROGRAMMING.pdf
Course 2	Computer-aided engineering systems	3	25	
Course 3	Circuitry of analog devices	5	25	
Course 4	Systems of data collection and processing	3	25	
Bachelor degree. IT & Synopsys				
Course 1	Sensors of technological processes	3	30	http://eua.am/wp-content/uploads/2018/04/APPLIED-PROGRAMMING.pdf
Course 2	. Micro Controllers and microprocessors in power industr	3	30	
Course 3	Nonconventional and renewables	3	30	
Bachelor degree. IT & Synopsys				
Course 1	Bases of nanotechnologies - BD of EC- 1 course	3	10	http://eua.am/wp-content/uploads/2018/04/APPLIED-PROGRAMMING.pdf
Course 2	Integral and microprocessor circuit engineering	5	10	
Course 3	Electrotechnical materials science	3	10	
Course 4	.Analog and digital electronic devices	5	10	

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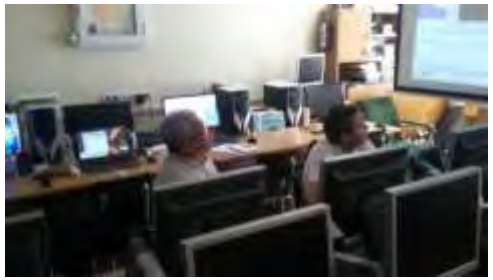
2.1. Training and teaching activities

- Technical University Sofia, 19.06.17-30.06.17 – A. Poghosyan, A. Hayrapetyan, S. Hindoyan, G. Mamikonyan,
- Politechnic di Torino - 3.07.17-18.07.17 – A. Melikyan, V. Saghatelyan, D. Babayan,
- Cracow University of Technology – 25-29.09.17 – S. Harutyunyan, G, Ayvazyan.

2.2 Training and teaching activities

Training at Technical University of Sofia (19.06.2017 - 30.06.2017)

- Lecture on Nanocoatings and Nanostructures.
- Lecture on Computer Added Design in Microelectronics.
- Laboratory training in the Thin Films Deposition Lab and in the Photolithography and Galvanic Lab.
- Excursion to the scientific and technological park "AMG Technology" (Botevgrad).



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2.3 Training and teaching activities

Training at Politecnico di Torino
(01.07.2017 - 21.07.2017)

- BIO/CMOS interfaces and co-design.
- Building tomorrow society: Nano Electronics & Photonics.
- Building tomorrow society: IoT applications and data management.

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2.4 Training and teaching activities

Training at Cracow University of Technology (25.09.2017 - 29.09.2017)

- Microelectronic technologies for alternative sources of energy
- Project management (business planning, funding, marketing, performance)
- ECAD for Microsystems: ELECTRONIC DESIGN AUTOMATION COURSE
- Soft Skills for Engineers.

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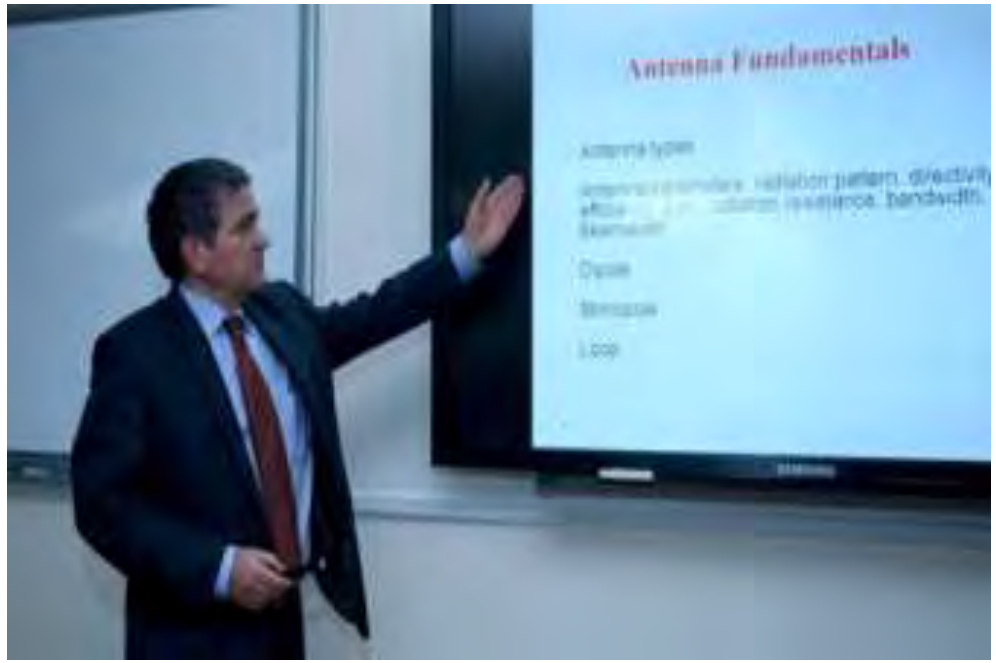
3.1 Links with societies

The exchange of experience from the EU universities participating in the project is being continued by partner universities participating in the project

1. Prof. Motti Haridim from the Holon Institute of Technology (Israel)
2. Yuri Plotkin, Professor from the Berlin Technical University (Germany).



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3.2 Links with societies

DOCMEN Miclab hosts students and applicants, and other guests.

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3.3 Industrial Partners

- In 2011 European university became a member of the Synopsys Worldwide University Program,
- 4 computer laboratories for 80 students are located at the University led by Professor, D.Sc., corresponding Member of NAS of Armenia Vazgen Melikyan,
- Bachelor and master programs in Microelectronic circuits and systems of communication are established at the University and Synopsys Armenia Educational Department,
- Undergraduate Program starts from the 5th semester, 3rd Academic year of Bachelor,
- best students from the IT faculty continue their further education at European university premises by Industry/University Educational Model,
- **The University provides:** computer laboratories, best students, university degree (Bachelor, Master), professors' salaries and students'scholarships,

- **Synopsys Armenia provides:** curriculum, best professors, industry-leading Synopsys EDA tools, necessary hardware, professors' training, technical infrastructure for programs, employment offers upon successful graduation.

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4. Equipment

1. LENOVO S50 30 all in one, display 23", 1920 x 1080; Intel Core i5 5200U, 2.2 ГГц (2.7 ГГц, Turbo); DDR3 8192 Мб; nVIDIA GeForce 820A 2048 Mb; HDD: 1 Tb; Web; DVD-RW; Wi-Fi, Windows 8.1

2. SMART Board SB480iv3

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5. Dissemination and Sustainability

5.1. Dissemination

Information on the project was provided:

- at information meeting with students and applicants, and pupils
- at a meeting of the Academic council of European University
- at the faculty meetings
- Information leaflet
- Official webpage www.eua.am DOCMEN

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5.2. Sustainability

№	Activity	Ref №	Срок выполнения	
			Start	Finish
8	Organization and conducting of workshops on modernized disciplines on the basis of MicLabs.	2.5 Dev.	01.01.2018	30.06.2019
9	Pilot training of students in new curricula using MicLabs.	2.6 Dev.	01.01.2018	30.06.2019
10	Full coverage of the project in mass media, including a joint web platform.	4.2 Diss.	01.01.2018	30.06.2019
11	Staff training and experimental operation / MicSO / participation in the creation of a regional, international network of MicSO offices.	4.4 Diss.	01.01.2018	30.06.2019
12	Coordination meetings.	5.2 Manag.	01.01.2018	30.09.2018

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Thank you for attention!

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