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Development of two cycle innovative curricula in microelectronic engineering – DOC MEN

REPORT 30M (up to June 2018)

Yerevan State University

1.1. Curricula/ UPDATED COURSES



Table 1.1.1. 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
Course 1	Design of Embedded Systems (Master)	6	25	http://ysu.am/uploaded/GUIDE_IS_Development_EN.pdf
Course 2	Testing of Electronic Devices and Systems (Master)	3	25	http://ysu.am/uploaded/GUIDE_IS_Development_EN.pdf
Course 3	Electronic circuit design (Bachelor)	6	56	http://iterc.yasu.am/enrol/index.php?id=42272
Course 4	Nanoscience and Nanotechnology (Master)	3	12	N/A
Course 5	Microwave Microscopy (Master)	3	12	N/A

Σ(Total number of updated courses) =

5

Σ(Total number of ECTS) = 21

1.1. Curricula/ NEW COURSES



Table 1.1.2. NEW 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	Accreditation and recognition: Specify the date when the course was accredited in the curriculum
Course 1	Electronic Testing for Nanoscale Devices and Systems (Master)	3	6	http://ysu.am/uploaded/GUIDE_IS_Development_EN.pdf	01.09.2017
Course 2					
Course 3					
...					
....					

$$\begin{aligned} \Sigma(\text{Total number of new courses}) &= \\ \underline{\quad 1 \quad} & \\ \Sigma(\text{Total number of ECTS}) &= \\ \underline{\quad 3 \quad} & \end{aligned}$$

1.2. FUTURE COURSES IN MICROELECTRONICS



Table 1.2. FUTURE COURSES IN MICROELECTRONICS

Course №	Title of the course and in which program it will be taught (Bachelor, Master)	Its volume (in ECTS)	Number of students expected to participate in the course
Course 1	Test and Repair Solutions for Nano-Scale Systems-on-Chip (Master)	6	20
Course 2			
Course 3			
...			
....			



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2. Training and teaching activities



2.1. Specify how many teachers conducted trainings at European universities (specify which) and topics were highlighted.

4 teachers

2.2. Specify which and how many events teachers attended and where/when

2 events in Turin (Italy), Cracow (Poland) and Sofia (Bulgaria)

2.3. Specify names of non-academic teachers, where (in which enterprises), when they participated in training at EU universities
(N/A)



Technical University of Sofia, Bulgaria



In Sofia Techno Park at 25 June 2017.



In seminar room, TUS at 26 June 2017.

Duration of the training: 18
June 2017 to 01 July 2017.

List of participants:
Valerik Vardanyan (YSU),
Arsen Babajanyan (YSU),
Tigran Abrahamyan (YSU).



In AMG-Technology, Botevgrad at 27
June 2017.



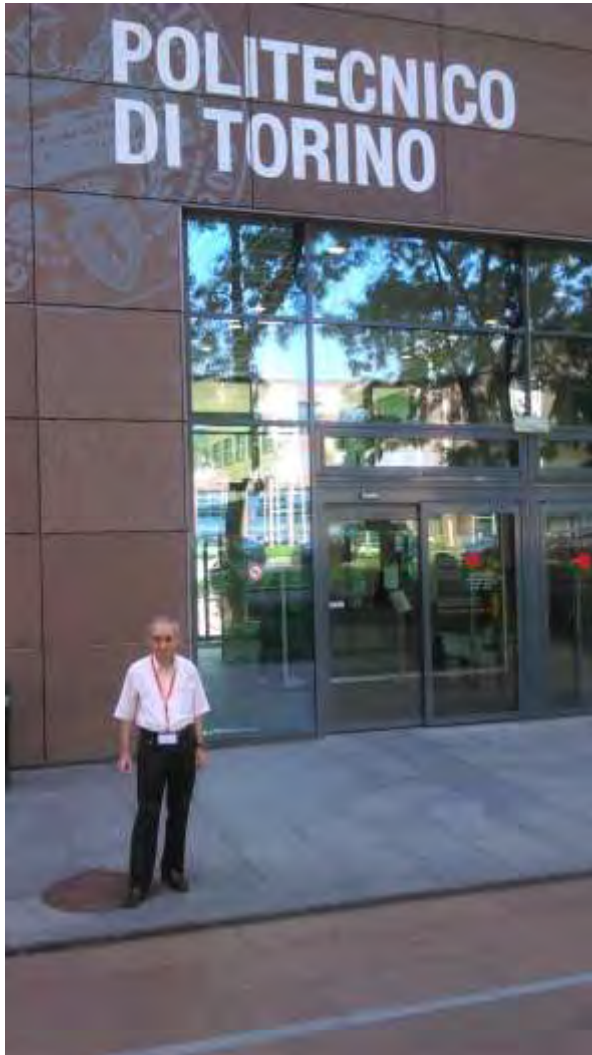
CAD in micro- nanoelectronics, TUS at 28
June 2017.

Politecnico di Torino, Italy



Duration of the training: July 3-9, 2017.

List of participants:
Karen Ghambaryan (YSU)



3. Links with societies



Within the lifetime of the project, were any employment events/fairs (ярмарки вакансий) conducted and how many?

1 event for students



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3. Regional Cooperation



How many agreements with non-academic stakeholders/other members of the consortium/ other non-consortium members have been signed so far or are planned to be signed in the future?

3 agreements with Synopsys, ArmSoft and PicsArt are planned to be signed in the future.



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3. Industrial Partners



Table 3.3. INDUSTRIAL PARTNERS	
Please, provide a list of industrial partners, with which you maintain communication and which could be interested in hiring your graduates	List of industrial partners: Synopsys Mentor Graphics ArmSoft PicsArt





4. Equipment

- Scan of the action plan of each of the DOCMEN infrastructure unit
- Titles of practical works that are conducted at MicLabs
- Who uses MicLabs (with students specify the degree)

Teleconferencing and Distance Learning Auditorium #434

Timetable

	Monday	Tuesday	Wednesday	Thursday	Friday
1-2	Faculty of Radiophysics				
3-4	Faculty of Radiophysics	IT ER Center	IT ER Center	Faculty of Radiophysics	
5-6	<i>Scientific Seminar</i>	IT ER Center		<i>Scientific Seminar</i>	Faculty of Radiophysics
7-8		<i>Scientific Seminar</i>			<i>Scientific Seminar</i>
9-10					



5. Dissemination and Sustainability



5.1. Dissemination

How many dissemination events were conducted?

Provide the link about the events to the project website

2 events



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5.1. Dissemination



<http://ysu.am/news/hy/Docmen-project-goes-on>

Professor Moti Haridim
Holon Technology Center (Israel)

December 6, 2:30pm -4:00pm
Location: NPUA, Auditorium #2431
"A Method for Transfer of Electricity with One Wire"

December 7, 2:30pm - 4:00pm
Location: YSU, Big Auditorium (#506) of IT Educational and Research Center
"Antennas and Wireless Transceiver Design"

Prof. Dr. Jurij Plotkin
TU-Berlin (Germany)

December 8, 11:30am - 12:20pm
Location: YSU, Big Auditorium (#506) of IT Educational and Research Center
"Photovoltaics"

December 8, 12:30pm - 1:20pm
Location: YSU, Big Auditorium (#506) of IT Educational and Research Center
"Frequency Converters"

December 8, 3:00am -4:20pm
Location: NPUA, Auditorium #2431
"Wind Generators"



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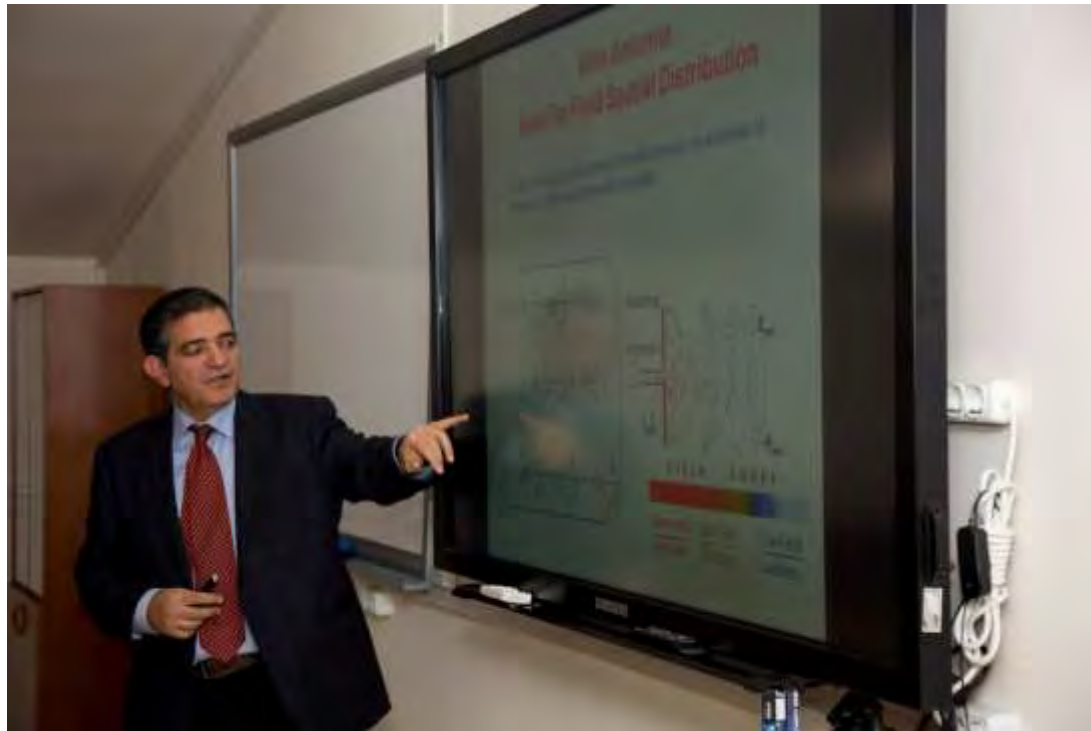
5.1. Dissemination

1					
No	Date	Title	Target Audience	Number of participants	Is there a press-release of the event (YES/NO). If YES, provide it.
1	Dec 7, 2017	“Antennas and Wireless Transceiver Design”, Prof. Moti Haridim, Holon Technology Center (Israel)	Faculty of Radiophysics, IT Educational and Research Center (YSU)	22	http://ysu.am/news/hy/Docmen-project-goes-on
2	Dec 8, 2017	“Frequency Converter”, Prof., Dr. Jurij Plotkin, TU-Berlin (Germany)	Faculty of Radiophysics, IT Educational and Research Center (YSU)	24	http://ysu.am/news/hy/Docmen-project-goes-on
...					



“Antennas and Wireless Transceiver Design”,

Prof. Moti Haridim, Holon Technology Center (Israel)



“Frequency Converter”,

Prof., Dr. Jurij Plotkin, TU-Berlin (Germany)



5.2. Sustainability



- Provide a scan of MicSO regulations

Teleconferencing and Distance Learning Auditorium

- Plan of present and future activities by MicSO

Lectures and videoconferences by/with recognized specialists in the area



6. Spin-off effects



Specify other additional outcomes of the project which were not mentioned in the project plan

Collaboration with Ijevan branch of YSU and Goris State University for providing lectures in the area to students of mentioned universities.



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Thank you for attention!

Yerevan State University,
Prof., Dr., Member of NAS RA Samvel Shoukourian,
samshouk@sci.am



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