



NanoEI-Asia project 573828

Virtual meeting on 11/01/2021

List of participants

Name	Institution
Danilo Demarchi	Politecnico di Torino
Ramesh Subramaniam Ramesh Kasi	University of Malaya
Rajkumar Durairaj Ezra Morris Abraham Gnanamuthu	University Tunku Abdul Rahman
Yanjie Wang	University of Chinese Academy of Science
Zhaochu Yang	Chongqing University of Technology
Jack Barokas	Tel Aviv University
Vivek Srivastava	NIIT University
Varsha Keklar	Mumbai University
Yossi Talyosef	Bar Ilan University
Slavka Tzanova	Technical University of Sofia

The meeting objectives were to plan the master classes to be delivered life on-line to the Partner university students in order to make the distant education and the distant delivery of new courses more attractive and to motivate them in this unusual situation. The meeting started with information on the situation in each country and at the university from all partners.

All partner organisation were represented.

The proposals collected by e-mail are presented in the table below.

Partner/ Program me organisat ion	Module/Lect ure(s) topic	Included in the course/curric ulum ¹	Teaching/ Learning hours ²	Mode of delivery ³	Dates/ Period Partner c. ⁴	Dates/ Period Progra mme c. ⁵
Politecnic o di Torino, Italy	Modules of Bio-nano- electronics and	Materials Selection and Alloy Design (UTAR)	6 (2 topics, 3 h each) a. Introductio	Online Lecture	March 2021	Jan – May 2021

¹ For which course/curriculum of the Partner country university this lecture/teaching activity is

² The learning hours could be more than the teaching hours if there are self learning activities

³ Life on-line lecture/seminar or virtual laboratory practice, consulting, examination

⁴ In which period (which months) the master classes could be delivered according to the study plan at the Partner country university

⁵ In which period (which months) the master classes could the Programme country teacher deliver the master classes



	Biomolecular Nanocomputing		n to the course (D. Demarchi) - 3 h b. The Micro for Nano approach (D. Demarchi) - 3 h			
Technical University of Sofia	Nanomaterials for Electronics	Materials Selection and Alloy Design (UTAR)	6 (2 topics, 3 hours each)	Online Lecture	March 2021	Jan – May 2021
Politecnico di Torino, Italy	Bio-nano-electronics and Biomolecular Nanocomputing	To be indicated by the partners	18 hours (6 topics, 3 hours each)	Online Lecture	To be indicated by the partners	Mar-Jun 2021
Politecnico di Torino, Italy	Introduction to MEMS and BioMEMS	To be indicated by the partners	60 hours	Online Lecture	To be indicated by the partners	Mar-Jun 2021
University of South-Eastern Norway	Introduction lecture to MEMS design	MEMS Design	2h	Online lecture via zoom	To be indicated by the partners	Can be customized Jan-April 2021
University of South-Eastern Norway	MEMS design case example	MEMS Design	2h	Online lecture via zoom	To be indicated by the partners	Can be customized Jan-April 2021
University of South-Eastern Norway	MEMS Design, complete course	MEMS Design	4h x 14weeks	Online lectures via zoom	To be indicated by the partners	11 January - 15 June 2021
University of South-Eastern Norway	Introduction to Sensor Interface	Sensor Interface	2h	Online lecture via zoom	To be indicated by the partners	Can be customized Jan-April 2021



University of South-Eastern Norway	Sensor interface case example	Sensor Interface	2h	Online lecture via zoom		Can be customized Jan-April 2021
University of South-Eastern Norway	Sensor Interface, complete course		4h x 14weeks	Online lectures via zoom		16 August – 15 December 2021
Politecnico di Torino, Italy	Bio-nano-electronics and Biomolecular Nanocomputing	Materials Selection and Alloy Design	6 (2 topics, 3 hours each)	Online Lecture	March 2021	Jan – May 2021
Technical University of Sofia	Nanomaterials for Electronics	Materials Selection and Alloy Design	6 (2 topics, 3 hours each)	Online Lecture	March 2021	Jan – May 2021
National Center for Nanoscience and Technology	Nanotechnology for Solar Energy Utilization	Materials Selection and Alloy Design	4 (2 topics, 2 hours each)	Online Lecture (videotaped lecture, on-live Q&A)	March 2021	March – May 2021
National Center for Nanoscience and Technology	Nano Electronic Materials	Materials Selection and Alloy Design	6 (2 topics, 3 hours each)	Online lecture	March 2021	March – May 2021
University of Malaya/ Politecnico di Torino, Italy	The Micro for Nano approach	MSc	6 (3 hours Life on-line lecture and 3 hours self learning)	Life on-line lecture	March 2021	
University of Malaya/ Technical University of Sofia	1. Materials for organic electronics 2. Spintronics	MSc	8 (4 hours Life on-line lecture and 4 hours self learning)	Life on-line lecture	March 2021	



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Tel Aviv University would like to contribute some more content that had been recorded during the last semester by means of distance learning (e.g. based on Zoom session) and share it with the consortium partner universities and faculty members.

Here is the list:

- Random Signals & Noise
- Digital Signal Processing
- Introduction to Control Theory 2020-2021
- Integrated Analog Circuits Design 2020-2021
- VLSI year 2021 online by Zoom
- Digital Processing of Single & Multi-Dimensional Signals

Later, next week we will send a short description of the courses' syllabi

If any of your students would like to have access to the recordings as an auxiliary content to their studies (which is already on the project LMS) please send me the credentials of the students and I will grant them access rights to the recordings.

TAU will also organize 3-5 webinars/master online class lectures which will take place, sometime during the next semester between the months of March and June. I will have the topics and tentative dates by the next week.

Another initiative from TAU will be, sharing the Zoom session of at least one course which will be given during the next semester, where students from consortium universities will be allowed passively follow. Whether they will be allowed to ask question during the live session or not will be up to the lecturer. All students will be able to communicate among them using textual chat, which I believe can help them to be part of the international community, experiencing internationalization and widening their cultural horizons.

University of Mumbai::

Introduction to cell systems –tissue organization structure and functions of macromolecules: polymers, carbohydrates, lipids, nucleic acids

Plasma membrane construction structural and functional aspects, ion channels, signal transduction, neuronal structure, network and functioning special senses and their modelling, natural and man-made biomimetic structures.

Basic concepts of bioelectronics molecular electronic devices, tissue engineering, micro and nanoscale biosensors and materials, different types of bioreceptors, properties of “G-Wire” DNA, metalloprotein electronics

Types of transducers, electronic and ionic conductivities of microtubules and actin filaments, consequences for cell signaling and applications to bioelectronics, biomedical, brain-computer interface & artificial brain imaging & nanotechnology, interfacing microelectronics and the human visual system, microfluidic device and lab-on-a-chip”.

Slavka discussed with the partners the requirements for the final report and reporting documents. The big problem is that paper-based certified copies of all financial documents are required. This is not ecology-friendly at all to print 1000s of pages. She



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asked all partners to send her the draft of the financial report with copies of the financial reporting documents.

ToDo List:

- BIU, CTBU and NIIT University to send information about their study programme during the first half of 2021 and the topics of master classes they would like to have for their students;
- Slavka will prepare the detailed description and plan of all new activities and she will send them to the project advisor;
- All partners to send her the draft of the financial report with scanned copies of the financial reporting documents.

Next Zoom meeting for final decision on the new activities and tasks will be on 01 February 2021 at 9:00 CET.