

**Meeting Minutes**  
**Internationalised Master Degree Education in Nanoelectronics in Asian Universities**  
**Project 573828-EPP-1-2016-1-BG-EPPKA2-CBHE-JP**  
**Project Meeting**  
**27-29 March 2019**  
**Politecnico di Torino, Italy.**

Participants:

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## Agenda

### Wednesday 27, March 2019

- 10h00-10h15 Welcome and opening the meeting (dean/rector)
- 10h15-12h30 WP4, QA. Usability test of the final version of the learning environment and all e-learning courses with videos, presentations, HTML etc.

#### Lunch

- 14h00-17h30 WP4, QA Peer review of 22 e-learning courses (All). Presenters of courses: Hailian Pan for NCNT, Yossi Talyosef for BIU, Jack Barokas for TAU, Rajkumar Durairaj for UTAR, Ramseh Kasi for UM, Varsha Kelkar for MU, Vivek Srivastava for NIIT university, Zhaochu Yang for CTBU

### Thursday 28, March 2019

- 09h00-09h30 WP4, QA. Summary of usability test and peer review and decisions for improvement if needed (Jack)
- 09h30-10h30 WP4, QA. Results from the cluster meeting and the monitoring in India (Varsha and Vivek)
- 10h30-10h45 Coffee break
- 10h45-12h30 WP7, Management. Information on new changes of project officers. Status of VAT/GST exemption documents, collected documents from all partners for the tendering procedures for purchase of equipment (Slavka). Status of final purchase of equipment (All representatives of Partner countries)

#### Lunch

- 14h00-17h30 WP5, Exploitation. Reports on the pilot test and plans for field trial (All)

*Skype meeting with Mrs. Bruno, when she is available and decision about the project continuation according the decision for extension of eligibility period.*

## **Friday 29, March 2019**

09h00-12h30      WP3. Development. Support to the partners who still have problems with videos or presentations upload in the e-learning courses if the peer review and usability tests revealed such problems (Jack Barokas)

### **Lunch**

14h00-17h00      WP6. Dissemination (All)

17h00-17h30      WP7, Management. ToDo list and planning of next meetings

## Wednesday 27, March 2019

General discussion about course status and planning of pilot tests.

Learning Outcomes to be part of the Syllabi and equivalent ECTS have to be indicated.

For

- Master or Bachelor Courses Polito counts 1 ECTS = 10 frontal teaching hours
- For PhD level you can count 1 ECTS = 5 frontal teaching hours

### Peer review of 22 e-learning courses

NCNST

- Add comments and explanations to the courses, now there are just numbers

CTBU

- Add comments, abstracts and improve the quality of the presentation of the course

It is important that by:

- END OF MAY 2019 course finished and ready
- END OF JUNE 2019 evaluation of the courses done

CTBU

- Add other contents (videos, abstracts, ...) because it is not enough for the project, quality of the course should be improved

USN

- Add visualization contents, for example images near the abstract
- Provide feedback from students
- All the videos should be upload on the Moodle, maybe with some explanations or slides attached
- Remove the “test topic” sections

BIU

- Add visualization contents, for example images near the abstract

UM

- Upload the syllabus
- Add videos and visualization contents
- Modify the structure of the course

NIIT

- Modify the structure (for example cut the very long abstract)
- Let the students know that quizzes are inside the power point presentations (for example splitting the ppt in “lesion part” and “quiz part”)

Work on Moodle contents. How to insert Hands-On contents present in EduNano as complementary modules inside NanoEl.

Solving problems of course contents and some examples useful for all the partners in how to improve the quality of the courses.

## Thursday 28, March 2019

Final check of course status and plan for Pilot Tests

	<b>Institution</b>	<b>Course</b>	<b>Pilot test</b>	<b>Delivery period</b>
1.	UTAR	Graphene nanoelectronics	Jan-Apr 2019	Jan – April 2020
2.	UTAR	Carbon nano tubes and applications	May-Sep 2019	May-Jul 2010
3.	UM	Materials characterisation	Sep-Dec 2018	Sep-Dec 2019
4.	UM	Nano materials and nanotechnology	Sep-Dec 2018	Sep-Dec 2019
5.	TAU	Advanced nano-electronic devices	Sep 2018-Jan 2019	Sep 2019-Jan 2020
6.	BIU	Sensing at the nanoscale	Feb-Jun 2019	Feb-Jun 2020
7.	Polito	Bio-nano electronics	Feb-Jun 2019	Feb-Jun 2020
8.	MU	Socio- ethical and environmental aspects of nanotechnology/electronics	Jun-Jul 2019	Apr-Jun 2010
9.	BIU	Microelectronics	Feb-Jun 2019	Feb-Jun 2020
10.	TAU	VLSI design	Feb-Jun 2019	Feb-Jun 2020
11.	USN	MEMS design	Jan-Jun 2019	Jan-Jun 2020
12.	USN	Sensor interface	Aug-Dec 2018	Aug-Dec 2019
13.	TUS	Nanoelectronics for ICT	Feb –Jun 2019	Feb –Jun 2020
14.	TUS	Design of nanoscale MOS ICs	Oct – Dec 2018	Oct – Dec 2019
15.	TUS	Nanomaterials for electronics	Feb –Jun 2019	Feb –Jun 2020
16.	CTBU	Top-down ASIC design flow	Feb –Jun 2019	Feb –Jun 2020
17.	NIIT University	Introduction to nano-electronics: science & technology basics	Aug-Dec 2018	Aug-Dec 2019
18.	NIIT University	Nanoelectronics systems	Aug-Dec 2019	Feb-Jun 2020
19.	NCNST	Nano electronic materials	Feb–Jun 2019	Feb –Jun 2020
20.	NCNST	Nanotechnology for solar energy utilization	Feb–Jun 2019	Feb –Jun 2020
21.	NCNST	Functional nanostructure: synthesis, characterizations and device applications	Feb–Jun 2019	Feb –Jun 2020

22.	Polito	Memristor Technology for Cognitive Computing	Sep 2018	Sep 2019
23.	MU	Raw materials for nanoelectronics	Feb-Jun 2019	Feb-Jun 2020
24.	TAU	Fabrication methodologies for micro- and nanosystems	Seb-Oct 2018	Seb-Oct 2019
25.	TAU	Entrepreneurship	Feb-Jun 2019	Feb-Jun 2020
26.	TAU	Integrated analogue circuits design	Sep-Oct 2018	Seb-Oct 2019
27.	CTBU	Biosensing microsystems	Feb –Jun 2019	Feb –Jun 2020

### Management issues discussion.

- Information about new changes of project officers.
- Status of VAT/GST exemption documents
- Collection of documents from all partners for the tendering procedures for purchase of equipment.
- Check of the status of final purchase of equipment: all the partners purchased the equipment

### Call with Dr. Giordana Bruno and discussion about the most important open issues and problems

- Extension of the project: it is confirmed by all partners the need of an extension for reaching the best of the results. Several results were already reached and the partners did the work they could do. The delays in the payments and in the tendering procedures delayed some possibilities, even if the partners started to buy the equipment without having final information about VAT issues for not stopping the activities
- Request about the possibility of buying software for Survey, because the Chinese partners do not have access to Google, that would give a free possibility of surveying
- Need of buying a license for a videoconferencing software, again because Chinese partners do not have access to Google Hangouts or Skype
- For both previous request the suggestions of the project advisor is to buy the licences as equipment costs by the Partner Countries
- Request of procedures to follow in case of the decision of the partners to add some travels not previewed, but considered important for the success of the project: the solution proposed is to send a request to the Officer and wait for the answer

All partners decided to do not add further requests in this moment, but to wait the answer of the project advisor about the amendment and then in case to proceed.

**Friday 29, March 2019**

Hands-on session supporting the partners who still have problems with videos or presentations upload in the e-learning courses if the peer review and usability tests revealed such problems

Discussion about the dissemination of the results among the different Universities. Importance of sharing the courses in the Partner Countries for involving other Professors in the work and increasing the number of students participating to the courses.

Visit of Politecnico Laboratories and Training facilities.

NEXT MEETING: the date will depend on the extension. Possible slots are:

- July 1-3, 2019
- October 10-14, 2019