

CONN'COR meeting 5th dec. 2024

The meeting was held on Skype the 5th of December from 7PM to 8:30PM.

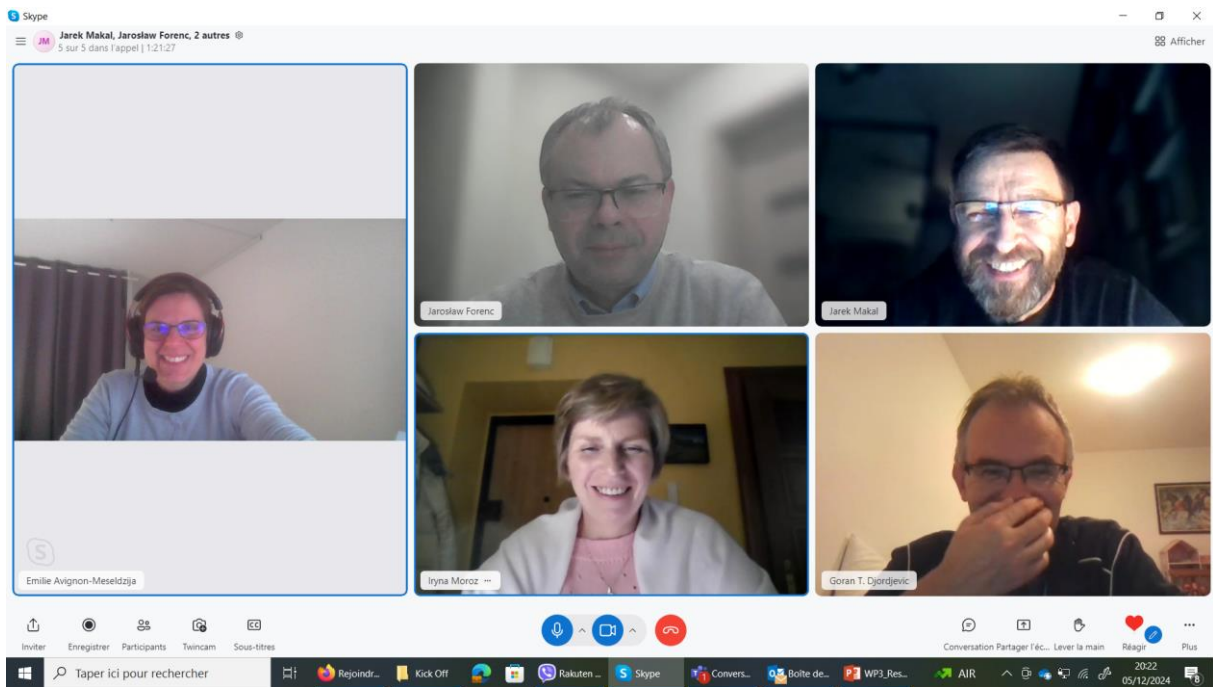
Person who attended the meeting:

PC Ukrainian team (LPNU) : Prof. Iryna Moroz

PC Polish team (BUT): Prof. Jaroslaw Makal, Prof. Jaroslaw Forenc

PC Serbian team (UNI): Prof. Goran Djordjevic

MC French team (CS): Assoc. Professor Emilie Avignon-Meseldzija



1. Discussion on WP2- Strengthening the coherence of teaching on a certain set of subjects

The following task are considered for discussion :

WP2

- R2.1a Teachers attended the training on team working. Screen recording of the webinar.
- R2.1b Report on training of teachers. Presentations for training created.
- R2.2a Teachers attended the training on course alignment. Screen recording of the webinar. A list of courses that require a stronger correlation.
- R2.2b Teachers attended the training on mutual collaboration. Screen recording of the webinar.
- R2.2c Report on propositions for teaching coherence with aim to improve the quality and consistency of teaching across institutions.
- R2.3a Results and appropriate comments of survey among active and graduated students related to the learning outcomes and the overall effectiveness of teaching.
- R2.3b Learning assistants attended the training. Screen recording of the webinar.
- R2.3c Reports on 10 meetings between teachers and learning assistants. Learning assistant included to help students to get better learning outputs.
- R2.3d Report on inclusion of learning assistants in teaching.

Activity R2.1: “Training of teachers for teamwork”:

BUT organizes 2 webinars of 4 hours in December 2024 with the following content:

1. Monday, 16th of Dec. (9:00 - 12:00) Coaching techniques supporting effective communication in international projects
2. Wednesday, 18 of Dec. (9:00 - 12:00) Creative techniques to solve conflicts among team members

All members of the project should announce these webinars to get participants. It must be done in advance because BUT will provide a questionnaire before and after the webinars to measure the degree of satisfaction of the attendees.

At least two people are necessary per country because there are some practical case where interactions are needed.

All partners will create the list of participants with their signatures and after the workshop send the scan of it to the Main Project Coordinator. BUT delivers the template for this list and for the certificate.

A certificate will be signed by the project coordinator and provided to the attendees.

Activity R2.2: “Statement, exchange and new propositions on good practices for teaching coherence”:

A first webinar, organized by BUT, will be held the AFTER 19th of January 2025 but up to the end of this month.

Each partner presents the experience they already have on this topic (courses alignment and teachers collaboration). BUT, which has the most experience, will share a detailed presentation of the alignment of 3 courses. Approximately 1h00 for BUT and 20-30 minutes for other partners.

In 20-30 minutes, CS could propose a sharing of experience for the creation of the course “Electronics Systems” involving different fields of Electronics Systems (Sensors, Analog-to-Digital Conversion, Analog Electronics, Digital Electronics).

Every partner must think about the content of the presentation.

A second webinar of maximum 4hours will be held in June 2025, each partner presents the results of course alignment.

CS rises the question of mutualization of some aspect of the WP3-Home Compatible Labwork by providing the experience of the creation of a new labwork with the collaboration of two professors in Electronics and Automatic Control and a labwork with the collaboration of two professors in Electronics and Signal Processing.

Activity R2.3: “Interaction with active and former students including implementation of learning with help of learning assistants”:

For this activity there were many discussions about what is a learning assistant, the possibilities and modalities to hire a learning assistant.

For this activity, each partner asked at their University what are the possibilities of hiring such a learning assistant.

In BUT and LPNU it is a common practice. In CS it should be possible from an administrative point of view but the time is very short for recruiting first year or second year students. Furthermore the other professors must agree to the introduction of such learning assistant. Fortunately CS has the opportunity to involve former students actually involved in PhD activities as teaching assistant.

BUT insists that we must make an announcement for the recruitment in January to make the process clear for Erasmus+.

In UNI the recruitment of such learning assistant is not an usual practice and may not be accepted.

For reminder: 8 learning assistants are supposed to be trained during a webinar.

This webinar must be held on February (between mid to end of February). As the possibilities, context and definition of learning assistant may vary a lot, this webinar could be divided into 4 parts and put together later.

Each partner prepares a report on the inclusion of LA in teaching (template provided by BUT).

2. Discussion on WP3 - Development of new and modernization of existing selected courses as examples of teachers' collaboration

WP3

R3.1 Digital materials prepared for the course "Designing of communication systems" (5ETC), 13 lectures in the form of multimedia presentations, 13 introduction-to-lecture movies, 5 manuals for laboratory works and 6 sample projects. Course implemented.

R3.2 New ready-to-teach "Home Compatible Labworks" for remote teaching in Electronics (5ETCS). 5 new labworks + list of required material + feedback from students. Course implemented.

R3.3 Digital materials prepared for the course "Designing of Electrical Networks" (5 ETCS), 10 lectures in form of multimedia presentations, 10 movies containing pre- and post-lecture tasks, 5 manuals for laboratory works and 6 sample projects). Course implemented.

R3.4a Teachers trained for research-based teaching. Screen recording of the webinar.

R3.4b Reports on the introduction of novel teaching methodologies into courses

For the new course "Design of Communication Systems" (R3.1):and "Design of Electrical Networks" (R3.3):

BUT asks LPNU to provide some contacts as soon as possible.

For "Home Compatible Labworks" (R3.2):

A first Home Compatible labwork has been provide to UNI for test. It should be provided in December also to BUT and LPNU.

BUT, LPNU and UNI are ready to test also Automatic Control labwork.

It is not mandatory that each partner tests all the 5 labworks, but it is mandatory to have all 5 labworks tested by at least one partner.

For "Introducing research based teaching" (R3.4a and R3.4b):

CS proposes to organize the webinar in collaboration with UNI, LPNU, BUT **probably the first week of February ?**

During the kick-off meeting, it has been highlighted that “research-based teaching” can be understood in different ways and that these two ways will be developed and presented during the webinar. As a reminder, the two approaches are the following:

- 1) The last research trends in pedagogy are considered to generate new teaching contents. How to teach the new generation ? How to implement new methods of teaching?
- 2) Based on research results we create a suitable pedagogical content for the students to initiate them to a research topic, hoping to get them interested in research in general. How to build such suitable pedagogical content based on research material? What will bring the students to get interested in research? (having a published paper, developing some theory and prove it correct?)

BUT will be involved in the first approach and LPNU, UNI and CS will be involved in the second approach. For the webinar BUT could present a recent state of the art on innovative pedagogical method when the other partners will present their method to introduce their students to research.

In CS, a new course will be implemented in the frame of the “Integrated Circuits and Systems” Master in CentraleSupélec involving 20 students and the name of the teaching module is “CAD2 – Research based teaching”. One professor and one learning assistant involved in a PhD and former student will be giving this 24 hours of lectures and labworks.

UNI proposes to help CS in the organization of the webinar as CS and UNI previously collaborated.

As a reminder, here is the proposition from LPNU for research-based teaching:

LPNU: Prof. Oksana Hoholyuk contribution webinar with her students, which can be discussed during the webinars:

The training of electrical engineering students through research is aimed at developing their professional and scientific competences, creative thinking and the ability to solve complex technical problems.

Bachelor's students are actively involved in the following forms of research:

1. Student competitions in theoretical and general electrical engineering.

This allows them to deepen their knowledge of the main disciplines, develop their skills in analyzing and solving problems, and also helps to increase their interest in the chosen specialty.

2. Preparation of scientific articles in co-authorship with supervisors.

Students gain knowledge of the methodology of scientific research, learn to work with scientific literature, formulate the results of their research and present them in the form of articles and abstracts.

3. Presentations at student and scientific conferences.

This provides an opportunity to present the results of your research, receive constructive feedback from other participants and gain experience in public speaking.

At the master's and postgraduate levels, the educational process is integrated with research activities through specialized disciplines, in particular:

1. "Research and seminars on their topics".

Students work in detail on topical issues of their master's theses, learn how to plan experiments, analyze data and summarize results.

2. "Research Seminar in Electric Power Engineering, Electrical Engineering and Electromechanics".

This course is aimed at deepening knowledge in highly specialized topics and provides a platform for discussing research results, developing critical thinking and professional growth.

3. Discussion on WP4 - Strengthening cooperation with Ukrainian university and use its experience of working and implementing projects under difficult conditions

R4.1 Fluent communications established among Ukrainian students and their colleagues from France, Poland and Serbia. Notes and recordings on mutual online meetings available on the project website.

12 virtual meetings are organized between students with a total participation of 150 students. 12 ideas have been provided for the virtual meetings.

To make these meetings less intimidating for the students, the IR delegate from CS suggested to start every meeting with an icebreaker.

Also it has been discussed that probably twelve meetings for each group of students is too much. A suggestion is to make the students choose three topics among the twelve.

To get the students for these meetings, CS will propose a project together with a discussion with Ukrainians students. A small reward, probably food, for the students participating is probably a good idea and will incite them to discuss further.

CS will send the projects to LPNU as soon as possible.

R4.2a Screen recording of presentations of projects realized in the past by each participant.

R4.2b List of reliable partners of four universities with contact information.

R4.3a Teachers trained to prepare project proposals. Training material available on the project website.

R4.3b Joint project proposal prepared by four universities. Project application ready to be submitted.

R4.4a Online lectures given to partners' teachers and students on some experiences in conducting HE under war conditions. Screen recording of the lectures available on the project website.

R4.4b Teachers of CS, UNI and BUT became familiar with the way of realization of projects during the war. Presentations available on the project website.

The next on-line meeting will be the 17th of Jan 2025 at 7PM.