

Teachers of the department "Space technology and technology" participated in the coordination meeting of the Erasmus + DOCMEN project in Italy

In the period from September 19 to September 22, 2018, Professor of the Department "Space Engineering and Technologies" of the Eurasian National University. L.N. Gumilyov Ergaliev DS and associate professor of this department Ashurov A.E. participated in the coordination meeting of the Erasmus + DOCMEN project (Development of two cycle innovative curricula in microelectronic engineering) at the Polytechnic University of Turin (Italy).



This project has been implemented since 2015 and will be completed in October 2019. The goal of the project is to support the modernization of higher education in the field of microelectronics by

introducing two cycles of training programs in accordance with the requirements of the labor market and in accordance with the Bologna process. The project involves universities of Israel, Bulgaria, Germany, Poland, Italy, Armenia and Kazakhstan. The project coordinator is the Berlin Technical University.

The agenda for this meeting included the following items:

- project implementation status in 2018;
- clarification of project activities for the upcoming additional third year of the project in 2019
- Discussion of the Memorandum of Understanding regarding the creation of MicSO offices;
- Training on the introduction of MicSO offices in universities. In order to ensure the quality of the planned results and to meet the deadlines for the project, the following methodological seminars were held:
 - a seminar on the dissemination strategy of the project for the last year;
 - Seminar on quality assurance of new or updated educational programs; - soft skills workshop forengineers.

In accordance with the agenda items, the reports of target universities on the project activities were heard and analyzed, and a discussion was held. From ENU them. L.N. Gumilev, coordinator of the project prof. Ergaliev D.S. He detailed the status of the project and the work performed at ENU.

As a result of the meeting, decisions were made for the successful implementation of the last stage, the timely and high-quality completion of this project. It was decided to hold the final meeting at the Krakow University of Technology (Krakow, Poland) on May 02-03, 2019. Based on the results of the curriculum review in the field of microelectronics, it was decided that external evaluations of curricula should be conducted and each university should develop indicators that external reviewers should use to assess the quality of new or updated modules. In addition, before the end of the project, it was recommended to sign bilateral agreements between the departments of partner universities (or between departments, departments, departments of partner universities) to ensure further cooperation after the project was completed.

To successfully complete the project, partner universities should create a final flyer with project results at each of the universities. One of the important results of the DOCMEN project implementation should be the function of the Micro Electronics Engineering Services Office - MicSO. At ENU, the Office is headed by a manager, whose appointment is carried out by order of the rector. The office was established at the Faculty of Physics and Technology of the University. The main tasks are: the use of the microelectronics laboratory (MicLab) in the educational process of the University, the involvement of ENU students in the implementation of research projects and the provision of services for the implementation of engineering works commissioned by third-party organizations within the competence of the Office.



The discussion was followed by a question and answer session, at which the following questions were discussed: the possibility of acquiring new equipment, the functions of MicSo offices, the involvement of industrial sectors in university activities and project activities.

A new idea of a microelectronics project for the new application ERASMUS + was discussed: the creation of joint master programs between Israeli and Armenian universities with the methodological support of European partners.