



Co-funded by the  
Erasmus+ Programme  
of the European Union



## **Excellence in Engineering Education through Teacher Training and New Pedagogic Approaches in Russia and Tajikistan**

Erasmus+ Capacity Building in Higher Education  
#586060-EPP-1-2017-1-RO-EPPKA2-CBHE-JP

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### EXTEND Project Relevance

Engineering education has always been popular among young people, and employers appreciated the high quality of engineering education. Nowadays one of the main challenges of engineering education is the necessity of enhancing the methods of training lecturers of engineering disciplines. Taking into account the fact that our society has made a big breakthrough in digitalization, computerization and mobility, modules for post-graduate students and refresher courses for university teachers need to be modernized according to the requirements of scientific and technological progress.

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### EXTEND Project Description

EXTEND project is aimed at modernizing approaches to teaching engineering disciplines in Russia and Tajikistan, increasing the quality of education and possibilities of employment for young engineers, students' motivation and making engineering education attractive. The Project is designed to elaborate the system of university teachers' training according to the principles of Bologna process and European space of higher education. The Project will be open for university teachers and post-graduate students, who are planning to be lecturers of higher educational institutions.

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## EXTEND Project Objectives

Elaboration of working programs and modules for post-graduate students and refresher courses for university teachers according to modern methodology of teaching engineering disciplines within classical format and MOOC (mass open online courses) format

Creating the complex model and descriptors of competences for lecturers who teach engineering disciplines at universities

Studying and mastering the best European practices in teaching engineering disciplines, monitoring pedagogic practices in engineering education at universities of Russia and Tajikistan

Establishment of EXTEND Centres Network – centres which will improve engineering education, provide the base for researches, learning courses and consulting services for teaching engineering disciplines in Russia and Tajikistan

Scientific research, publication of articles in scientific journals, which are indexed in Web of Science and Scopus bases, monographs and methodical manuals related to the project theme

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## EXTEND Project Consortia

University  
Politehnica of  
Bucharest,  
Romania

Riga Technical  
University, Latvia

University of  
Minho, Portugal

University of  
Warwick, United  
Kingdom

Bauman Moscow  
State Technical  
University

Moscow State  
University of Civil  
Engineering

Ogarev Mordovia  
State University

Nosov  
Magnitogorsk  
State Technical  
University

Tajik National  
University

Technical  
University of  
Tajikistan

Khujand State  
University by  
academician  
Bobojon Gafurov

Kulob State  
University named  
after A. Rudaki

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## Erasmus+ Capacity Building in the Field of Higher Education

Projects of Capacity Building in Higher Education are aimed at solving the following tasks in the frames of “KA2 Partnership in a sphere of innovations and exchange of the best practices” direction of European Union Erasmus+ program:

- Support of modernization, innovations and availability of higher education;
- Increasing the quality of higher education and its conformity to labour market and society needs, teaching organization and planning, operational and strategic management of universities and their internationalization;
- Assistance to partnership between the European Union and partner-countries; voluntary convergence in the field of higher education in the frames of the EU initiatives, interpersonal contacts, international awareness and understanding;
- Increasing competences and skills level by working out new and innovative modules;
- Assistance to regional and interregional integration and partnership of different world's regions by cooperative initiatives and the best experience exchange.

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EXTEND web site: <https://extend.bmstu.net/>

Erasmus+ Capacity Building in Higher Education information:

[https://eacea.ec.europa.eu/erasmus-plus/actions/key-action-2-cooperation-for-innovation-and-exchange-good-practices/capacity-0\\_en](https://eacea.ec.europa.eu/erasmus-plus/actions/key-action-2-cooperation-for-innovation-and-exchange-good-practices/capacity-0_en)

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