eccum

EXCELLING MATH EDUCATION...

Web site:

http://eccum.famnit.upr.si/en

## For company

The project, based on the knowledge and experience of European partners and teachers from Central Asia specializing in "Engineering and Engineering", prepares specialists and can solve industrial and scientific problems. Application of EU experience in mathematical engineering, increasing the potential of universities in the framework of international cooperation. Analysis of the relevance of the needs of stakeholders in each country. The wide impact of the project will help in the industrial-innovative development of the participating countries, since "engineering" is the art of creating and improving the environment.
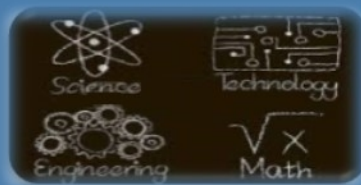
ECCUM-Establishment of Computing Centers and Curriculum Development In Mathematical Engineering Master Program

Facebook:

facebook.com/groups/1723040731302091

Expected results:

- Creation of inter-faculty master's program (descriptor of qualifications, curriculum, workplan);

- creation of a computer center in each university of partner countries;

- in order to organize professional development, distance learning for interested parties not included in the project (universities, companies, scientists) to create a web platform for joint activities;

- cooperation in research and training in mathematical engineering.

Web site:

http://eccum.bmti.uz

Partners:

USC — University of Santiago de Compostela (Spain);

Polytechnic University of Turin (Italy);

University of Primorska (Slovenia);

Urgench State University (Uzbekistan);

Turin Polytechnic University in Tashkent (Uzbekistan);

Bukhara Engineering Technolocal Institute (Uzbekistan);

Kostanay State University (Kazakhstan);

International Information Technology University (Kazakhstan);

MATLAB

⇒ Testing automation, creation of expmental applications;

⇒ Development and modeling of systems;

⇒ Measurement and analysis of system characteristics;

⇒ Prototyping of robot behavior algorithms;

⇒ Design of control systems with feedback and control logic;

⇒ Modeling, simulation, implementation and

⇒ verification of embedded software and hardware;

⇒ System design and modeling;

⇒ Creating of mathematical models for industry.

COMSOL

⇒ Hydrodynamics, heat transfer and soil mechanics in COMSOL;

⇒ Simulation of heating and ventilation of premises in COMSOL;

⇒ Optimization of the characteristics of complex facades;

⇒ Use of biofuel as an economical and renewable energy source;

⇒ Improvement of heating and cooling methods;

⇒ Multi-physical analysis of leak detection in water mains;

⇒ Improving the electrohydraulic power steering;

⇒ Definition of electric arc arcs in satellite antennas;

⇒ Modeling of the industry's multiphysical processes;