

## **INTERNATIONAL DEGREE PROGRAMME “OIL SHALES – RESOURCES AND TECHNOLOGIES”**

Tallinn University of Technology (TUT) represents 3 main core subjects – Technological, Humanities and Social Sciences organised in 8 faculties, a three-lingual university (Estonian-Russian-English), an entrepreneurial university–research, teaching, development, administration, and a campus university. The Strategic Plan of TUT proceeds from the situation in Estonian higher education and science, key needs of the society, the principles of the Lisbon strategy and the Bologna process.

Recognized as a national centre of engineering and technology culture, TUT offers internationally recognized engineering education, expands cooperation with the member countries of the European Union as well as with research institutions of Third World countries, participates as a partner in international organizations and in cooperation programmes and networks and programmes of the European Union. All institutions at TUT have included in their Strategic Development Plans the priorities for implementation of the Bologna process. The aim is to reach the share of foreign, exchange and visiting students to 5% from the total number of students and to widen its geographic distribution of partners from Third World countries

Currently there are six international degree programmes in English at Tallinn University of Technology. One on Bachelor level (International Business Administration) and five on Master level (MBA, Information Technology, Technology Governance, Industrial Engineering and Management, and Environmental Management and Cleaner Production). The university strongly supports the development of the international degree programmes.

The aim is to have at least one international-degree programme taught in English in each of the eight faculties of the university, one of them is under discussion:

International degree programme “Oil shales – resources and technologies”, including: geology, sustainable mining and environmental management, oil shale chemistry and processing technologies, energy technologies.



TUT approaches the transversal theme of the university role in a knowledge-driven society, namely the university–industry cooperation, aiming at cooperation with strong network of universities and industrial partners in the field of education, research and services. The main activities are related to structuring the university curricula in the subjects relevant for industrial sector including student practical stages, professional insertion, dissemination, etc.

### Framework of collaboration with China

There is long history of EU collaboration with China in Science and Technology (S&T). EU-China cooperation in S&T started in the early 1980s although it was not official until 1998, an official S&T co-operation agreement was signed and subsequently renewed in 2004. China has been the most active cooperation partner amongst non-EU member states. Once the EU-China S&T Co-operation Agreement has been signed, the Chinese Ministry of Science and Technology (MOST) started actively to support Chinese project partners. Chinese researchers are more and more successful, especially in the areas of IT, life sciences, energy and materials research. Currently we cooperate with the Qingdao University of Science and Technology. Joint programs providing study of Chinese students at TUT in the framework of international degree programmes are in preparation.



Delegation of Tallinn University of Technology in China.



Delegation of Tallinn University of Technology on China's wall.

Chinese Government established Chinese Government Scholarship Programme (EU Window).

- This is a full scholarship scheme set up by the Chinese Ministry of Education for European students. Its purpose is to expand student exchanges between China and the European Union.
- The programme provides 100 full scholarships per academic year during the period from 2007 to 2011.

### **Asia link programme – Beijing University – Tallinn University of Technology – Stockholm University**

Curriculum Development – biotechnology, biomedical engineering, supporting activities.

From the 5<sup>th</sup> of March 2007 to the 8<sup>th</sup> of March 2007 the delegation headed by the rector of Tallinn University of Technology Peep Sürje visited Chinese universities in Beijing and Qingdao to develop collaboration with universities within the framework of existing and planned new international programmes.

Estonian delegation visited Beijing University, Institute of Oil and Gas, University of Science and Technology Beijing, China University of Petroleum in Beijing, and University of Science and Technology in Qingdao. A collaboration agreement was signed with Qingdao University.



The president of Qingdao University Prof. Ma Lianxing and the rector of Tallinn University of Technology Prof. Peep Sürje signing the collaboration agreement.

Many interesting meetings with administrators, professors – very high-level specialists and students – encourage us for wider collaboration between two countries in science and education, especially in the field of energy and oil shale chemistry.

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