

**Recommendations for
Ukrainian-Polish Forum of
Association of rectors of higher technical educational institutions
of Ukraine and the Conference of Rectors of Technical Universities of
Poland "Technical Education - for the future of Europe"
November 7, 2014**

Having heard and discussed the report stated, the Forum participants note that during the recent years it was made significant progress in the joint activities of the Association of rectors of higher technical educational institutions of Ukraine and the Conference of Rectors of Technical Universities of Poland: the scientific collaboration and cooperation on programs such as "Double Degree" ("Diploma of two partner universities"), increased between technical universities in Poland and Ukraine, the active student exchanges has begun.

Today the universities of Poland have about 15 thousand Ukrainian citizens. Poland is ahead of Germany for the first time by the number of Ukrainian students, who became also the most numerous among all foreigners studying in Polish universities.

In 2014, 122 universities of Ukraine fruitfully cooperate with more than 400 universities in Poland. Within cooperation, 2598 professionals and students were sent to Poland for research and training, lectures, conferences, long-term educational work, for full and partial course of study in graduate school, to attend language courses for students and lecturers and 1487 professionals and students from Poland were invited.

In 2014/2015 academic year, Polish authorities have provided an opportunity for 550 Ukrainian students and graduate students to study under the Scholarship program "Polish RSM Erasmus for Ukraine."

In the 4th phase of Tempus Ukrainian universities participate in the 94's projects, among them - 22 projects implement consortium, which include Polish and Ukrainian universities.

Became a traditional, the football tournament of university teams of Ukraine and Poland, which was first held in Kiev in September 2010.

Its motto: "Through sports - to Understanding and Cooperation in Europe!" - reflects best of all the dominant of cooperation between technical universities in Ukraine and Poland: we are committed to a common European

future and realize this progress, involving all the tools of international cooperation.

In September 2014 it was signed an agreement with the Major technical organization of Federation of Scientific and Technical Societies of Poland.

In the development of innovative management ideas the "Move into the virtual highway of infinite possibilities of your future business" is implemented (with the partner in Poland - Polish foundation of communications. Warsaw) - funded by the program of the Ministry of Foreign Affairs of Poland "Polish help for development - 2014".

Under the same program of MFA of Poland and thanks to the support of personally Extraordinary and Plenipotentiary Ambassador of Poland Republic in Ukraine His Excellency Mr. Henry Litvin started the project for creation Ukrainian-Polish training center for renewable energy and energy efficiency.

It was developed cooperation with the Polish Academy of Sciences in Kiev, thus, it was held the Second International scientific-practical conference "Clean Water. The fundamental, applied and industrial aspects".

This conference provided an opportunity for scientists of Technical University of Ukraine to establish contacts in this important global issue with scientists of Poland, including - Wroclaw and Lublin University of Technology.

At the same time modern conditions, stormy, rapid development of events require understanding and specification of new problems, finding their solutions. Ukraine university community concern questions that need immediate answers:

- How to deepen understanding of what way Europe goes through?
- How to integrate inreality the education and science of Ukraine into the European educational and scientific space?
- How to remove barriers (psychological, administrative, informational, etc.) in order to make European integration processes in Ukraine more highly dynamic?
- How to learn to be more successful in competitions of European Grant Programs in science and education field?
- How to work out the correct understanding of the Bologna Process?
- How to adjust Youth, to create a "favorable corridors" to include students, graduate students, young scientists into irreversible European integration processes?

In response to these and other important questions, on 25th of April, 2014 in Kiev - with the Minister of Education and Science of Ukraine Serhiy Mironovych Kvit and His Excellency Extraordinary and Plenipotentiary Ambassador of Poland in Ukraine Mr. Henry Litvin - it was signed a new agreement on cooperation between our Association and the Conference, which updates the common challenges and tasks facing the system of higher technical education in Poland and Ukraine at the present stage of European integration processes.

Agreement of April, 25, 2014 provides for cooperation on key issues of development of European higher technical education and science, including:

- International and European dimension of higher technical education and research;
- quality assurance of higher education;
- algorithms of European accreditation of specialties;
- relationship between technical universities and industry in shaping the requirements for a modern European model of engineer,
- Innovative component of scientific and technical activities;
- Participation in competitions of EU programs, including, - Horizon 2020 and ERASMUS +,
- Cooperation of student organizations;
- European mobility and others.

Ukraine is actively working out them in a partnership with the Republic of Poland - a friend and reliable partner of Ukraine.

Members of Ukrainian-Polish Forum adopt the following recommendations.

1. Among the prospective areas of constructive partnership, cooperation and collaboration between the university and industrial enterprises by formation of modern European model of engineer there should be:

- creation of basic chairs at the sites of the real sector of the economy, where the students will be able to master specific technologies;

- implementation of network forms of interaction between universities and enterprises (implementation of joint educational programs based on new technologies of transfer knowledge and formation of practical skills);

- introducing the practice-oriented programs of higher technical education;

- organization of in the university the structure, which provides support of innovative initiatives of students, postgraduate students and staff, accompaniment of commercialization of scientific work;

- development of innovative environments and to development of mechanisms of technology transfer from university environment in the real sector of the regional industry;

- enhancing in technical education such subjects that related to innovation management;

- mastering of modern algorithms of international technology transfer.

2. To widen the practice of inviting scientists of technical universities of Ukraine to execute current and future projects of scientific technical universities of Poland in partnership with the industrial enterprises in Poland and Europe.

3. To develop cooperation between the Association of "Information Technologies of Ukraine" and DTEK Academy, LLC "MZ Dniprovstal" CB "Pivdenne" SE "SIE "Pavlograd Chemical Plant" and other industries in terms of improving educational content while training specialists for IT industry, aerospace, chemical and energy sector.

To approve the proposal of Dnipropetrovsk region regarding the establishment the basic chairs at industrial enterprises.

4. To study European, particularly, - Polish experience of quality assurance agencies of higher technical education and accreditation of specialties (ASIIN, KAUT and others) and to start on this basis the activities on Accreditation specialties of technical universities in Ukraine.

To carry out these activities in close cooperation with partner universities from Poland.

To create the Non-Governmental National Council of Ukraine on quality assurance of higher technical education and accreditation of specialties on the basis of Association of rectors of higher technical education institutions of Ukraine.

5. To make consultations on the possibility of Ukraine to join the European networks of accreditation agencies (ENQA, CEENQA, ENAEE and (or) others).

Entering to them means:

- Exchange of experience in quality assurance;
- Competent support in the process of political transformation;
- Practical knowledge of methods, principles and processes of internal quality monitoring of agents-partners;
- An extensive network of highly qualified experts of all profiles for evaluation programs (under development);
- Annual meetings with experts of European agencies, joint seminars;
- Joint application to the program "Erasmus +" and others.

6. To support the proposal to introduce document of European Engineer passport type in Ukraine (Engineering Card) and the honorary title of EURING.

To carry out the work to include specialties of technical universities of Ukraine to register of the Federation of European engineering association (FEANI INDEX et al.).

To recommend Technical University of Ukraine studying engineering education accreditation system (EURACE label and similar).

7. To expand the practice of participation of technical universities of Ukraine in the European system of ranking of universities (QS rankings, etc.).

To support the proposal of the Polish Education Foundation PERSPEKTYWY to establish a European rating of technical and technological universities in Europe.

8. In accordance with the policy of expanding the membership of technical universities of Ukraine in the European structures of science, education, accreditation, and so on., to introduce for the Government of Ukraine the draft of the Order to allow the universities to implement organizational and membership fees by means of the special university funds.

9. To approve the proposal of Opole University of Technology, to strengthen significantly the cooperation of technical universities of Ukraine and Poland on forming joint consortiums of scientists for the projects to competitions of EC Horizon 2020 Program, Erasmus + and other programs.

10. To create a joint Polish-Ukrainian portal, which will contain counter-proposals of scientists the Technical University of Ukraine and Poland on partnership and forming consortiums for submission the application of EU programs "Horizon 2020" and "Erasmus +".

11. To approve the following areas of joint participation in competitions of European programs "Horizon 2020" and "Erasmus +" (within the approved priorities of these programs of the European Commission):

- 1) information and communication technology, cyber security;
- 2) green and alternative energy;
- 3) sustainable development;
- 4) new materials, nanomaterials and nanotechnologies;
- 5) environmental management;
- 6) Life Sciences;
- 7) water treatment technology;
- 8) aviation safety and technology;
- 9) The program "University satellite";
- 10) shipbuilding and marine technologies;
- 11) innovative entrepreneurship in technical education.

12. Association of rectors of higher technical educational institutions of Ukraine and the Conference of Rectors of Technical Universities of Poland to should strengthen the cooperation with the Polish Academy of Sciences for successful participation in competitions of EC HORIZON 2020.

To take an active part in the joint with PAN organization and conducting international conferences on fundamental, applied and industrial aspects of the problem of clean water, green energy, aerospace and other technologies. global problems.

13. To consider a priority - to carry out joint projects, directed on the creation, development and cooperation of the joint (Ukraine - Poland) innovative environments, to create the joint start-ups with venture funding of national and international investors (Technology Business).

14. To approve the proposal of Poznan University of Technology to increase significantly the number of bilateral and multilateral agreements between the Technical University of Ukraine and Poland in terms of participation in European mobility programs ERASMUS +, VISHEGRAD Fund, Bonch Scholarship Programme and others - as a favorable factor to enhance the mobility of students and young scientists of Ukraine and Poland .

15. To approve the proposal of Azov State Technical University for creating regional clusters, involving technical universities, industries and high-tech businesses to enhance interaction of "knowledge triangle": education, science, innovation - and – final result – strengthening of innovation-oriented development of economy of Ukraine.

16. The local organizing committee should set the presentation reports, proclaimed at the Forum on November 7, 2014, and the draft of recommendations of the Forum on the Forum's website.

Forum participants should continue the work on the formation of proposals for inclusion in the draft of recommendation of the Forum.

17. Under the suggestion of the rector of the National Ivano-Frankivsk Institute of Oil and Gas prof. Yevstahiy I. Kryzhanivskyi, to hold the next meeting of Ukrainian-Polish Forum of the Association of rectors of higher technical educational institutions of Ukraine and the Conference of Rectors of Technical Universities of Poland "Technical Education - for the future of Europe" on the basis of the National Ivano-Frankivsk Institute of Oil and Gas in. Ivano-Frankivsk in 2015 year.

In the future, to conduct the Forums alternately in Poland and Ukraine annually.