

National Technical University "Kharkiv Polytechnic Institute" Department of Natural Sciences

Proposals For Cooperation



Participant from NTU "KhPI": Department of Natural Sciences National Technical University "Kharkiv Polytechnic Institute"

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Mutual Cooperation Topics

- Popularization Of Science Among International Students
- Innovative Educational Methods In Teaching Natural Sciences to International Students
 - International Students' Adaptation



Department of Natural Sciences

- The Department of Natural Sciences (DNS) of the International Education Faculty (IEF) of NTU "KhPI" was established in 1973. DNS provides teaching of naturalscience cycle subjects for international students who are going to enter Ukrainian higher educational institutions, and also carries out Higher Mathematics, Mathematical Modeling and Regional Ecology for junior experts in economic profile, who are already studying in higher educational institutions in Ukraine. DNS participated in the projects provided by the Consortium of Perfection of Management Education in Ukraine (CEUME), financed by the American Agency of International Development (USAID).
- Our teaching staff is guided by the principles of pedagogical availability and logics that promotes quick assimilation in terminological, grammatical stock of natural-science subjects and provides qualitative perception of lecture and practical material at the higher education institution. Acquired knowledge activity, skills formation is reached by active innovative methods of teaching, using computer technologies and distance learning.
 - The specificity of the department is realized in international relations. At different years, the department hosted the interns from the USA, Germany, Austria, Great Britain, Greece, Spain, Korea and other countries and performs annual international scientific conferences.
 - Currently DNS continues having an authority with international students, who come to study to Ukraine. More than 7,000 of foreign citizens have completed their study at the IEF by now.

Some Key Publications of the Department Staff

- Lapuzina O. Revisiting the study of computer ethics in distant learning / O. Lapuzina, O. Romanov, Yu. Romanov // Новий Колегіум. – 2015. – № 2. – C. 28-31. <u>http://repository.kpi.kharkov.ua/bitstream/KhPI-Press/21032/1/2015_Lapuzina_Revisiting_the_study_of_computer.pdf</u>
- Lapuzina E. N. Vyisshaya matematika v primerah i zadachah : ucheb. posobie : v 2 ch. Ch. 1 / E. N. Lapuzina, A. I. Loboda, I. V. Smorodskaya ; Harkovskiy politehnicheskiy in-t, nats. tehn. un-t. – Harkov : NTU "HPI", 2015. – 160 s. (Higher Mathematics in examples and problems) <u>http://repository.kpi.kharkov.ua/handle/KhPI-Press/21033</u>
- Solovyova L. V. OptimIzatsIya didaktichnogo materIalu temi "Movi programuvannya" do umov distantsIynogo navchannya Inozemnih studentIv / L. V. Solovyova, Yu. R. Gavrilyuk // Noviy Kolegium. 2015. # 2. S. 32-35. (Optimization of didactic material topics "Programming languages" in terms of distance education of foreign students) <u>http://repository.kpi.kharkov.ua/handle/KhPI-Press/21018</u>
- Lisachuk L. N. Primenenie sovremennyih tehnologiy v prepodavanii estestvennyih distsiplin inostrannyim studentam / L. N. Lisachuk, N. L. Semyannikova // Problemyi i perspektivyi yazyikovoy podgotovki inostrannyih studentov v vyisshih uchebnyih zavedeniyah : mater. 10-y Mezhdunar. nauch.-prakt. konf., posvyaschennoy 85-letiyu HNADU, 1-2 oktyabrya 2015 g. – Harkov : HNADU, 2015. – S. 433-435. (Application of modern technologies in the teaching of natural sciences for foreign students) http://repository.kpi.kharkov.ua/handle/KhPI-Press/21043

Proposals on International Cooperation

THE PURPOSE OF OUR PROPOSALS:

- TO DEVELOP EDUCATIONAL PROGRAMS IN L2 TEACHING FOR INTERNATIONAL STUDENTS;
- TO DEVELOP NEW CONCEPTS FOR LEARNING AND INNOVATIVE TEACHING METHODS: ACTIVITY-BASED LEARNING, CASE-STUDYING, ROLE-PLAYING, BRAINSTORMING, USING THE INTERNET AND DISTANCE TECHNOLOGIES;
- **TO PROVIDE POPULARIZATION OF SCIENCE AMONG STUDENTS.**

THE RESULT OF MUTUAL COOPERATION:

- DEVELOPMENT, TESTING, ADJUSTMENT, IMPLEMENTATION OF TRAINING PROGRAMS FOR L2 LEARNERS, TOOLS AND TRAINING METHODS, CREATION OF JOINT L2 TEXT-BOOK AND DISTANCE COURSES;
- STRENGTHENING THE RELATIONSHIP BETWEEN UNIVERSITIES ON THE BASIS OF PERFORMING SCIENTIFIC INTERNATIONAL CONFERENCES;
- TRAINING OF THE L2 TEACHERS AND STUDENTS;
 - PROFESSIONAL ADVISING TO INTERNATIONAL STUDENTS FOR THEIR PROPER INCLUSION INTO LOCAL SOCIO-ECONOMIC ENVIRONMENT;
 - **ØRGANIZATION OF JOINT CONFERENCES ON THE PROBLEMS OF L2 TEACHING AND LEARNING;**
 - INCLUSIVE EDUCATION OF INTERNATIONAL STUDENTS;
- ACTIVE PARTICIPATION IN YOUR CURRENT PROJECTS.

SCIENTIFIC NOVELTY IS STIPULATED BY WORKING OUT OF PEDAGOGICAL BACKGROUND FOR DISPANCE TEACHING L2 TO INTERNATIONAL STUDENTS.

PRACTICAL VALUE OF THE MUTUAL COOPERATION IS TO ENSURE A NEW LEVEL OF INTERNATIONAL EDUCATION.

We are looking forward to hearing from you soon. Yours sincerely, Department of Natural Sciences NTU "KhPI"

