

EDUCATIONAL - RESEARCH INSTITUTES

- Institute For Applied System Analysis
- Energy Saving & Energy Management Institute
- Institute of Physics & Technology
- Institute of Mechanical Engineering
- Institute for Telecommunication Systems
- Institute of Publishing & Printing Industry

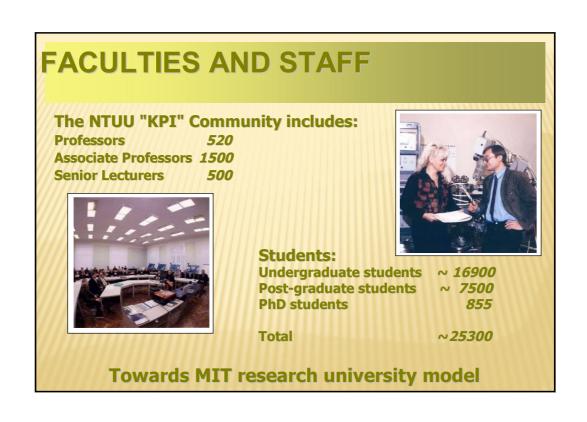
FACULTIES

- Faculty of Aircraft & Space Systems
- Faculty of Chemical Technology
- Faculty of Chemical Engineering
- Faculty of Management & Marketing
- Faculty of Electronics
- Faculty of Electric Power Engineering & Automatics
- Faculty of Heat Power Engineering
- Faculty of Informatics & Computer Engineering

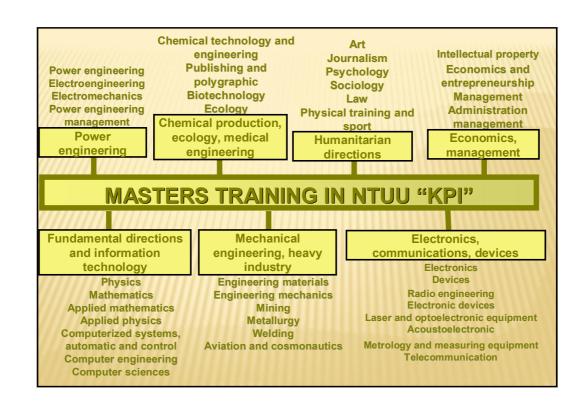
- Faculty of Linguistics
- Faculty of Applied Mathematics
- Faculty of Instrument Making
- Faculty of Physics Engineering
- Faculty of Physics & Mathematics
- Faculty of Radio Engineering
- Faculty of Sociology & Law
- Faculty of Biotechnology
- Intercollegiate Medical Engineering Faculty

29 in total



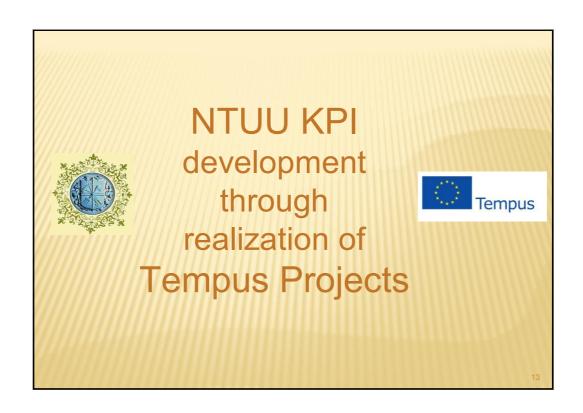


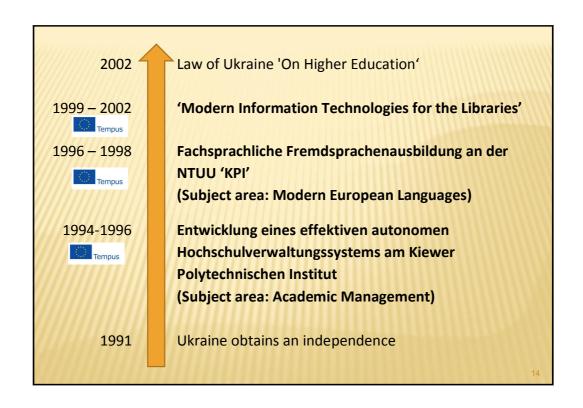






Ukrainian Universities Rating in 2012 (UNESCO, Compass, WEBOMETRICS)					
Name of institution	Place in consolidated rating	Place in ratings			Total
		UNESCO	Compass	WEBOMETRICS	points
KPI	1	1	1	1	3
Kyiv Taras Shevchenko National University	2	2	2	2	6
Kharkov National University VN Karazin	3	3	9	4	16
Lviv Polytechnic National University	4	11	4	5	20
Donetsk National Technical University	5	16	6	3	25





UNIVERSITY MANAGEMENT

1994 – current challenges for Ukrainian universities

- 1. Universities acquired rights to foreign economic activity
- 2. Reorganization of university management
- 3. Introduction of information technologies to university management



CR_JEP- 8570-1994 TEMPUS project
'Entwicklung eines effektiven autonomen
Hochschulverwaltungssystems am Kiewer Polytechnischen Institut' (1994-1996)
Coordinator: Aahen University



- Establishment of 'Computer Telecommunication Centre of KPI'
- Control Center for base node of URAN (Ukrainian Research Academic Network)
- Introduction of the optical network, uniting buildings No. 1, 2, 7,
 12 and 18



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MODERN EUROPEAN LANGUAGES

1996 - current challenge for Ukrainian universities:

Ukraine's integration into the world educational and scientific community

CR_JEP- 10253-1996 TEMPUS project
'Fachsprachliche Fremdsprachenausbildung an der
NTUU "KPI" (1996 – 1998)

Coordinator: University of Dresden



MODERN EUROPEAN LANGUAGES

Outcome:

New specialities and new chairs

- Department of theory, practice, and translation of the German language
- Department of theory, practice, and translation of the French language



Centre of Business French of NTUU 'KPI':

support for Double Diploma Programs;

preparing candidates for exams DELF and DALF, competition for internship in France;

carrying out of the functions of NTUU 'KPI' as a member of the Association of Francophone Universities (AUF).



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'Double Diploma' - 2012

- Otto-von-Guericke-Universität Magdeburg, **Deutschland**
- TU Dresden, Deutschland
- · Université du Maine, Le Mans,

France

• École Polytechnique,

Paris, France

- Korea Institute of Science and Technology, Seoul, Korea
- University of Indianapolis, Athens, Greece



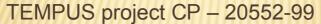




INFORMATION TECHNOLOGIES FOR THE LIBRARIES

Current challenge for Ukrainian libraries:

- computerization of library
- development of electronic reading rooms
- creation of digital copies of rare books



'Modern Information Technologies for the Libraries' (1999 – 2002)

Coordinator: RWTH - School of Aachen

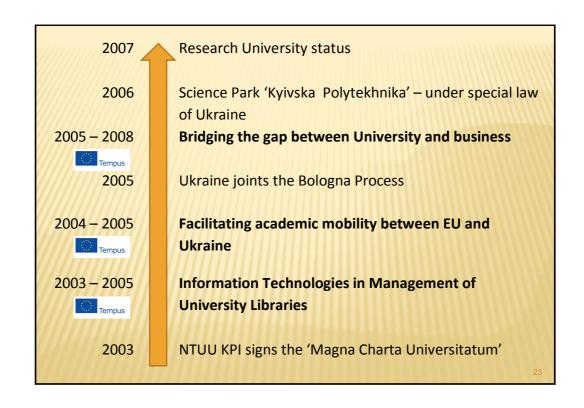
INFORMATION TECHNOLOGIES FOR THE LIBRARIES

Outcomes:

- Library has been provided with up-to-date equipment owing to which rare editions were transformed into digital form;
- Integrated Library System Aleph
- An electronic catalogue of the library has been created.



http://library.kpi.ua:8991/F/





MANAGEMENT OF UNIVERSITY LIBRARIES

Current challenge for Ukrainian libraries:

Training of the library staff to use modern information technologies



TEMPUS project 'UM_JEP-23074-2002

"Information Technologies in Management of University Libraries" (2003 – 2005)

Viennese Technological University – coordinator

MANAGEMENT OF UNIVERSITY LIBRARIES

Outcomes:

- Establishment of the Library Manager Training Centre
- ✓ Continuing education course 'Library Manager'
- 8 traditional and 5 distant learning courses for training university library staff in IT
- Training of staff of 29 Ukrainian libraries from all regions of Ukraine, dissemination of knowledge through URAN







BRIDGING THE GAP BETWEEN UNIVERSITY AND BUSINESS

Current challenge for Ukrainian universities and business:

- To facilitate cooperation among academia, business and society in Ukraine
- Development of education and research cooperation in the areas of environmental and sustainable energy technologies.



TEMPUS Joint European Project 25163 – 2004 'Bridging the gap between University and business'

Coordinator: Royal Institute of Technology, Stockholm

BRIDGING THE GAP BETWEEN UNIVERSITY AND BUSINESS

Outcomes:

- Launch of The Joint Swedish-Ukrainian Laboratory on Sustainable Environmental and Energy Technologies
- (November 13, 2007)
- Ukrainian festival of innovative projects'Sycorsky Challenge'











CURRICULA REFORM

Current challenges for Ukrainian universities:

- Introduction of ECTS into Ukrainian higher education;
- Harmonization of curricula with European universities



TEMPUS IV (Ref.144681-TEMPUS-2008-DE-JPCR) – 'Curricula Reform in Space Technology in KZ, RU, UA'

Coordinator: Technical University of Berlin

CRIST - CURRICULA REFORM IN SPACE TECHNOLOGY

Outcomes:

- Modernization of curricula
- Training in the universities of Belgium and Germany
- Computer lab
- Satellite Engineering Lab
- Ground Station for Communication with Satellites





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ONGOING TEMPUS PROJECTS IN NTUU "KPI"

- MPAM EU-PC Double Degree Master Program in Automation/Mechatronics
- **EIMAST** Establishing Modern Master-level Studies in Industrial Ecology
- **UNIQTOOL** Implementing Tools and Policies for Quality Work at Institutional Level
- **CREDO** Creation of Third Cycle Studies -Doctoral Programme in Renewable Energy and Creco **Environmental Technology**
- **CENEAST** Reformation of the Curricula on Built **Environment in the Eastern Neighboring Area**







CREDO

Current challenge for Ukrainian universities:

Creation of Third Cycle Studies - Doctoral Programme



510952-TEMPUS-1-2010-1-SE-TEMPUS-JPCR 'Creation of Third Cycle Studies - Doctoral Programme in Renewable Energy and Environmental Technology' (2011-2013)

Coordinator: Royal Institute of Technology, Sweden

CREDO

Outcomes:

- Pilot project in the transition to three-cycle training
- Some project results were used while preparing revised Law of Ukraine 'On Higher Education'

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FUTURE PLANS - TEMPUS VI

Areas of future projects:

- Research, Innovation and Technology Transfer Management
- Modification of Curricula According to Qualification Frameworks
- Telemedicine Technologies
- Waste Management Technology and Environmental pollution control
- > Student Early Employability, etc.



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