

INTER-UNIVERSITY START-UP CENTERS FOR STUDENTS' INNOVATIONS DEVELOPMENT & PROMOTION



SUMY STATE UNIVERSITY

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SUMY STATE UNIVERSITY IS HIGHLY RATED AMONG UKRAINIAN HEIS ACCORDING TO NATIONAL AND INTERNATIONAL RATINGS:

WEBOMETRICS (6), SCOPUS (16), 4ICU (16),
TopCoder and others
3rd place among Ukrainian classical universities

CybermetricsLab 

Ranking Web Universities by Country

January 10

refine your research
SCOPUS™

TOPCODER

SUMY STATE UNIVERSITY – A RELIABLE PARTNER FOR INTERNATIONAL ACADEMIC PROJECTS AND MOBILITY SCHEMES



- TEMPUS
- Erasmus Mundus
- EuropeAid
- LLL Programme
- Framework Programme
- Joint research projects in frames of intergovernmental agreements
- UN Development Programme
- Grants of World Bank, DAAD, Fullbright etc.



Participation of SSU in EU programs - Tempus and Erasmus Mundus



Realized projects:

- TEMPUS SM_SCM-T017B06-2006 “Practicum to Improve Ukrainian e-Learning System”
- 144742-TEMPUS-2008-DE-JPHES ECESIS "Educational Centers' Network on Modern Technologies of Local Governing

Current TEMPUS projects:

- 530181-TEMPUS-1-2012-1-DE-TEMPUS-SMGR INTEGRATED UNIVERSITY MANAGEMENT SYSTEM: EU EXPERIENCE ON NIS COUNTRIES' GROUND
- 530601-TEMPUS-1-2012-1-PL-TEMPUS-SMHES INFORMATICS AND MANAGEMENT: BOLOGNA-STYLE QUALIFICATIONS FRAMEWORKS
- **530349-TEMPUS-1-2012-1-FR-TEMPUS-JPHES INTER-UNIVERSITY START-UP CENTERS FOR STUDENTS' INNOVATIONS DEVELOPMENT & PROMOTION;**
- 530519-TEMPUS-1-2012-1-UK-TEMPUS-JPCR 530519-TEMPUS-1-2012-1-UK-TEMPUS-JPCR ESTABLISHMENT OF THE SUPRA-REGIONAL NETWORK OF THE NATIONAL CENTRES IN MEDICAL EDUCATION, FOCUSED ON PBL (PROBLEM-BASED LEARNING) AND VIRTUAL PATIENTS
- 530599-TEMPUS-1-2012-1-DE-TEMPUS-JPCR Crossmedia und Qualitätsjournalismus
- 530244-TEMPUS-1-2012-1-SE-TEMPUS-JPCR MODERNIZING HIGHER ENGINEERING EDUCATION IN GEORGIA, UKRAINE AND UZBEKISTAN TO MEET THE TECHNOLOGY CHALLENGE

Current projects of ERASMUS MUNDUS

- 372298-EM-1-2012-1-PL-ERA MUNDUS-EMA21 INTEGRATION OF NEIGHBOURING EASTERN REGIONS THROUGH COOPERATION IN HIGHER EDUCATION



Project motivation: legal basis

- Law of Ukraine «Development and state support to small and medium-sized enterprise» (№ 4618-VI from 22 March 2012) – organization of training, retraining and qualification upgrading for staff of small and medium-sized enterprises is one of main directions of a state policy for its development in Ukraine;

- National Strategy for development of education in Ukraine in 2012-2021, approved by Cabinet of Ministers on 10 September 2012 – one of the most important goals of a state policy is nurture of people with innovative thinking and culture;

- Strategy of economic and social development of Sumy Oblastj «Modern Sumy Oblastj – 2015» - achievement of necessary level of region's competitiveness must be accomplished by mean's of strengthening of motivation for self-development and enterprise activity. Mechanisms of active cooperation between government, business and community must be worked-out, including institutional ones – business support centers, business incubators, information-analytical centers, startup and innovation centers etc;

Project motivation: regional peculiarities



Sumy oblastj

During 2012 at least 4 initiative groups for development of innovative business activity of region's youth have emerged:

- * Sumy business club of entrepreneurs;
- * Initiative group of public organization «Sumy oblastj foundation for support of entrepreneurship»;
- * Business incubator under support of local government and business institutions: Profiles International Ukraine (USA), Business Systems та Global Management Challenge (Portugal);
- * Initiative group of Sumy State University for student innovations;

It is foreseen to create a network to pool the above listed organizations



Project motivation: University environment



Supporting activity of Sumy business club
of entrepreneurs and Sumy oblastj
business incubator



Aim at introduction of the model of Triple Helix of
university-industry-government
relations (by Henry Etzkowitz, Stanford University)

Project motivation: University environment



Target groups and structural divisions

- University startup-like formations:
 - Student research IT center
 - Center of e-learning technologies
 - Experimental student research institute
 - Club of inventors

- Participants of all-Ukrainian and international student contests and competitions (SSU department for work with talented youth)

- Full-time students in IT and engineering, LLL trainees



Student research IT center



- Examination of effectiveness, optimization, intellectualization of algorithms, study of innovative IT and programming technologies, solution of tasks of advanced complexity;
- Analysis of organization's information flows, software design, web-systems and services;
- Examination of information security of local net resources and Internet, collection and analysis of operation parameters;
- Participation in international contests of leading IT-companies (ACM ICPC, Microsoft Imagine Cup, TopCoder, Google CodeJam, Facebook, Opera, Oracle);



Student research IT center





Center of e-learning technologies

70% of staff are students
Pilot platform for student IT innovations



Virtual
trainers
and
laboratory
works

Electronic
training
courses



Video
connection

Online
testing



online
studio

Project motivation: University environment



Contest for high-school graduates «If I was an entrepreneur»





Project motivation: University environment

Participation in international competition “Iron entrepreneur”



Very soon to come

Selection tour:
23 March 2012,
Sumy, SSU

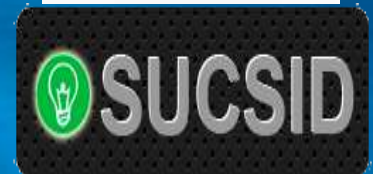
Sumy team in semi-final:
12 April 2012,
Kiev, “Bayview innovations-
Ukraine”

Selection tour:
27 February 2012,
Sumy, SSU



Project fulfillment: University role

- Resources development for startup Centers
 - Analyzing startup center experience in EU and PC
 - Development of methodology, programme and teaching materials for LLL in engineering and computer science
 - Organizing seminars and conferences, dissemination workshops (May, November 2013)
- Training resources development
 - Development of teaching methodology
 - Pilot training of students
- E-learning resources development
 - Web-based e-learning platform
 - Development of e-learning components for IDP courses



Introduction of web-based e-learning technologies



1994

Pilot project of IREX

2001

Start of instruction for distant students

2002

TEMPUS Project
“Practicum to Improve
Ukrainian E-learning
System”

2006

Members of the
Ministry experimental
programme for
distance education

2008

2012

Проект
«SUCSID»
TEMPUS IV

1100 students





Automated quality assessment

Online-classes

Internet television

E-learning web-based platform

Virtual trainers, laboratory works

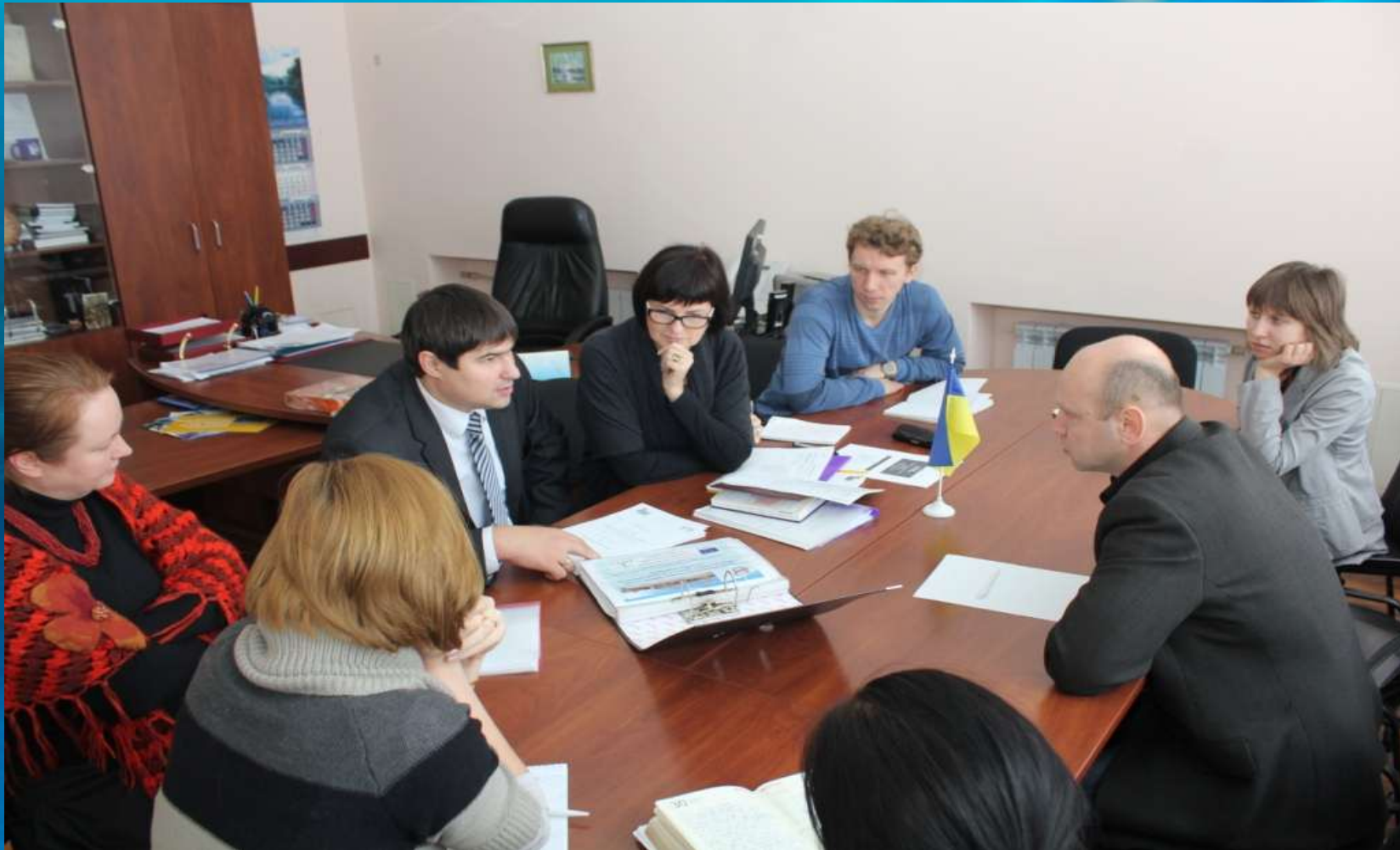
Electronic repository

Online testing tools

Environment for educational courses development

Maintenance of the platform for educational process

530349-TEMPUS-1-2012-1-FR-TEMPUS-JPHES INTER-UNIVERSITY START-UP CENTERS FOR STUDENTS' INNOVATIONS DEVELOPMENT & PROMOTION;



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