



Eurasia Programme

**Norwegian Cooperation Programme
in Higher Education
with Eurasia**

2010-2015

«Sustainable Manufacturing»

CPEA-2011/10023 cooperation project

01.08.2011 – 30.12.2014



University of Gjovik Delegation at NTUU KPI

- ▶ On March 18, 2011, the delegation of **the University of Gjovik**, the Kingdom of Norway, met with the scientists and teachers of **NTUU 'KPI'**.



The representatives of NTUU KPI and University College of Gjovik discussed the mutual project on development of **Sustainable Manufacturing teaching course**.

- ▶ As the result of this meeting the following agreements have been achieved:
 - ❑ the agreement on development of academic exchanges,
 - ❑ development of teaching lecture courses for students, and
 - ❑ fulfillment of mutual scientific projects.

2011.03.18

University of Gjovik Delegation at NTUU KPI

- Professor **Gennady Statyukha**, the Head of the Department of Cybernetics of Chemical Technology Processes of the Faculty of Chemical Technology told about directions and methodology of teaching for Masters and PhDs degrees in the field of Sustainable Development, and training of highly qualified managers and system analysts.



2011.03.18

University of Gjøvik Delegation at NTUU KPI

- ▶ **Mr. Torbjørn Skogsrød**, the Dean of the Faculty of Technology, Economics and Management of the University College of Gjøvik, and his colleagues professors **Kristian Martinsen** and **Ådne Midtlien** informed about their activities in implementation of the Sustainable Manufacturing concepts in educational programs, and teaching Bachelors, Masters and PhDs according to certain programs and opportunities of joint projects implementation.



The Eurasia programme

- The overall goal of the Eurasia programme is to contribute to renewal and internationalisation of higher education in the cooperating countries.
- Strategic priorities are projects focusing on curriculum development, introduction of new teaching methods or materials, quality assurance mechanisms and university management.

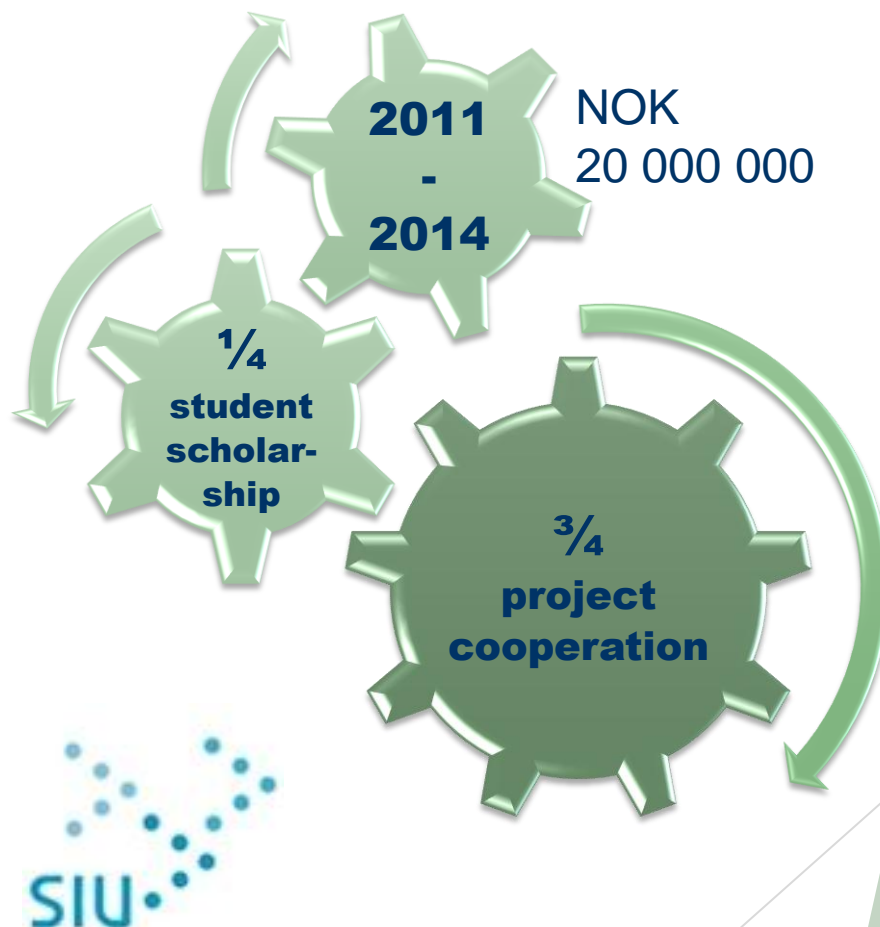


The Eurasia programme



The Norwegian Cooperation Programme in Higher Education with Eurasia

supports project cooperation between institutions in **Norway** and Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kirgizstan, Moldova, Tajikistan, Turkmenistan, **Ukraine** and Uzbekistan.





The Eurasia
Programme Board



CPEA-2011/10023

«Sustainable Manufacturing»

The
University
College of
Gjovik



Jørn
Wroldsen,
Rector



Representatives



National
Technical
University
of Ukraine
'Kyiv
Polytechnic
Institute'



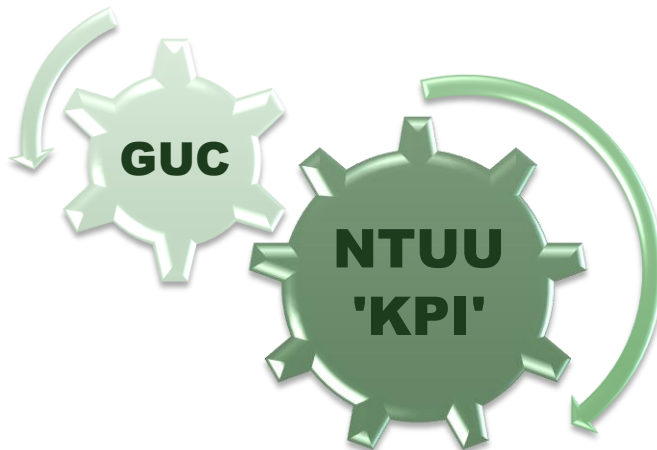
Michael
Zgurovsky,
Rector

CPEA-2011/10023

«Sustainable Manufacturing»

Project coordinators

- ▶ **Jo Sterten**
project coordinator
'Eurasia Programme' at GUC
- ▶ **Kristian Martinsen**
responsible for the Master in
Sustainable Manufacturing at GUC
- ▶ **Evgenij Ogorodnyk**
director of *sustainable development*
program at NTUU 'KPI'



The coordinator of
international
'Eurasia
programme'
of Norwegian
Centre for
International
Cooperation
in Education

**Bård
Hekland**

CPEA-2011/10023

«Sustainable Manufacturing»

- ✓ Long-term cooperation in the area of sustainable production systems
- ✓ R & D cooperation
- ✓ Exchange of students and professors
- ✓ Development of flexible learning environment
- ✓ Development of the master program «Sustainable Manufacturing» at GUC
- ✓ Development of introductory courses



Master of Sustainable Manufacturing at Gjøvik University College

Agreement
on development and teaching of course

Sustainable Development



at Høgskolen i Gjøvik
NTUU 'KPI' and
Høgskolen i Gjøvik
(Faculty for Technology,
Economy and Management)



Sustainable Development course for masters in Sustainable Manufacturing at GUC by NTUU 'KPI' professors

**Program
Compendium
Presentations
Cases
Assignments
Exam**



- ▶ prof. **Gennady Statyukha** (the Faculty of Chemical Technology) course development, at site lecturing and tutoring
- ▶ ass. prof. **Andry Verlan** (the Faculty of Heat Power Engineering) at site lecturing and tutoring
- ▶ ass. prof. **Liudmyla Bugaeva** (the Faculty of Chemical Technology) at site lecturing and tutoring, the course coordination
- ▶ ass. prof. **Iryna Dzhygyrey** (the Faculty of Chemical Technology) course development, on-line tutoring



Sustainable Development course for masters in Sustainable Manufacturing at GUC by NTUU 'KPI' professors

Course activity

- ▶ **Fall 2011**
- ▶ **Spring 2012**
- ▶ **Spring 2013**
- ▶ **Fall 2013**
- ▶ **Fall 2014**
- ▶ **...**



Students mobility R&D mobility



NTUU 'KPI'
Department of Student's
Academic
Mobility

**Tetiana
Kuchynska**
Head of the Dept.

Students
of the Department
of CTP Cybernetics
at GUC



«Information Security»
«Sustainable Manufacturing»
«Applied Computer Science»

Study
programmes



Students mobility

R&D mobility



Visting researcher stipend
fellowship grants to Ph.D students

- ▶ **Iurii Voitenko**, 1 Nov 09 - 31 Dec 12 PhD
National Technical University of Ukraine
"Kiev Polytechnic Institute", Kiev (Ukraine)
- ▶ Research in
telecommunication protocols,
wireless systems,
microelectronics.



*Energy-efficient routing protocol
for wireless multihop sensor networks*

Super adviser:
Associated Professor
Michael Cheffena

Ukrainian-Norwegian e-learning center for sustainable development

24 April 2013

Ukrainian-Norwegian e-learning center for sustainable development is opened due to the collaboration of **National technical university of Ukraine 'KPI'** (Dept. Cybernetics of CTP) and **Gjøvik University College** (Faculty of Technology, Economy and Management) under «**Sustainable manufacturing**» project (CPEA 011/10023) of **Eurasia Programme**.

Development of
flexible learning
environment



opening
ceremony



Official opening KPI Learning Center for Sustainable Development

Welcome April 24, at 2:00 p.m. in Building 4 KPI, Chemical Engineering. Time schedule 14:00 – 15:30 – Participants GUC on Internet K113 13:00



Ambassador
Jon Elvedal Fredriksen.

1. Opening Learning Center for Sustainable Development.

Background history Ukraine – Norway

Why Corporation?

Cand Philos Jon Elvedal Fredriksen, Ambassador of Norway to Ukraine and Belarus.



2. Sustainable Development,
why is this important?
Corporation with Norway
Rector NTUU KPI
Doctor of Technical Sciences
Michael Zgurovsky
or a representative



3. «The funding from SIU:
Why the Eurasia Program?
Purpose, Possibility.
Adviser (SIU)
Norwegian Centre for International Cooperation in
Education, Bård Hekland



4. Greetings from Norway online
GUC Strategy Sustainable
Development
International Corporation
Rector GUC
Professor Jørn Wroldsen
or a representative



5. Corporation education in Eurasia.
Project information Sustainable Manufacturing
Student exchange.
Fellowship Ph.D. students
Project coordinator
Evgenij Ogorodnyk



6. Study program Sustainable
Manufacturing and
Research corporation
Study program manager
Sustainable Manufacturing
Professor Kristian Martinsen



7. Sustainable Development, seminar II
Presentation of Ukrainian students at GUC
What the students think about the project
College of Chemical Engineering KPI
Head of department, Ljudmila Bugaeva and Assoc.
prof. Andrew Verlan
Seminar Coordinator PhD Jan Olav Endrerud.
Greetings and final with Dean Torbjørn Skogsrød

Ukrainian-Norwegian e-learning center for sustainable development

opening
ceremony



H. E. Mr. Jon Elvedal Fredriksen
the Ambassador of Norway to Ukraine
and Belarus,
First Vice Rector of NTUU 'KPI'
Yuriy Yakimenko,
the coordinator of international project
'Eurasia programme' of Norwegian
Centre for International Cooperation
in Education **Bård Hekland**,
Dean of Faculty of Chemical
Technology **Igor Astrelin**,
participants of the Eurasia project
from NTUU 'KPI' and GUC,
professors and students
took part in the opening ceremony.



Ukrainian-Norwegian e-learning center for sustainable development

opening
ceremony



Welcome speech
of vice dean
O. Sanginova



Project coordinator
Jo Sterten
with dept's students



Welcome speech
obo CCTP department
I. Dzhygyrey



**Bård
Hekland**
(SIU)

Eurasia Programme

«Sustainable Manufacturing»

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Project coordinator
Evgenij Ogorodnyk
director of *sustainable development* program | NTUU 'KPI'

«*Sustainable development*» course coordinator
Liudmyla Bugaeva
ass. prof. department of cybernetics of CTP | NTUU 'KPI'

kxtp@kpi.ua

