

*Higher engineering training for environmentally sustainable industrial development*  
*543966-TEMPUS-1-2013-1-BE-TEMPUS-JPCR*  
**HETES**

**MINUTES OF THE 2<sup>ND</sup> COORDINATION MEETING**

**Venue:** University of Granada – School of Engineering Building,  
Campus de Fuentenueva s/n, E-18071, Granada, Spain

**Dates:** June 11 – 13, 2014

**Participants:** **BELGIUM**

**Katholieke Universiteit Leuven**

Mr. Philippe Saey

Mr. Geert De Lepeleer

**Volvo Cars Gent**

Mr. Rudi Van Sande

**UNITED KINGDOM**

**Buckinghamshire New University**

Mr. Tim Coole

**SPAIN**

**Universidad de Granada**

Ms. Blanca Delgado-Márquez

Mr. Luis Enrique Pedauga

Mr. Javier Delgado-Ceballos

**SWEDEN**

**Kungliga Tekniska Högskolan**

Ms. Olga Kordas

Ms. Kateryna Pereverza

Mr. Oleksii Pasichnyi

**UKRAINE**

**Donetsk National Technical University**

Mr. Oleksandr Troyanskyy

Mr. Volodymyr Kochura

**National Metallurgical Academy of Ukraine**

Mr. Oleksandr Velychko

Mr. Volodymyr Shatokha

Mr. Andriy Petrenko

**Ivano-Frankivsk National Technical University of Oil and Gas**

Mr. Oleg Karpash

Mr. Maksym Karpash

**Kyryvi Rih National University**

Mr. Mykola Stupnik

Ms. Lyudmyla Kruhlenko

**Sevastopol National Technical University**

not available

**Ministry of Education and Science of Ukraine**

not available

**Ukrainian Research & Technology Center of Metallurgy Industry**

not available

## ACTIVITIES AND DECISIONS OF THE COORDINATION MEETING

### 1 Overview of the project activities performed by June 2014.

Activities of WP1, WP4, WP 5 and WP7 were performed during the 1<sup>st</sup> 6 months of the project. All planned activities were performed according to the workplan with small deviations in activity 1.1. "Study of best EU practices in higher engineering education reform towards sustainable development demands" caused by the availability of EU partners to host the study visits.

Partners already formed their vision for the modernisation of the engineering programmes through introducing of the new modules focused on the environmental issues. The new modules will be incorporated in the existing study programmes on M.Sc. and PhD levels, it was also noted that B.Sc. programmes may also be considered. The importance of multidisciplinary approach in new modules was stressed as well.

In submitting of Internal QC Report by Ukrainian partners one delay were noticed.

Dissemination activities are well performed and partners are encouraged to promote the project further as much as possible.

### 2 Reports of Ukrainian partners on development of the chapters for the brochure "Training engineers for sustainable development: EU experience".

Ukrainian partner universities reported the state of the art with development of their chapters for the brochure. Everybody expressed appreciation to all EU partners for the very well prepared study visits and comprehensive information provided to Ukrainian visitors.

The large part of materials for the brochure is already developed and all partners expect to complete the work by July 2014.

IFNTUOG informed that the information, obtained during the study visits to EU, as very useful for the development of the Sustainable Energy Action Plan for Ivano-Frankivsk 2020.

### 3 Discussion of the quality assurance activities planned in the project.

Overview of task and tools for QC applied in the project. Detailed presentation of the templates to be used for internal and external QC measures. Partners were reminded about the deadlines for submission of QC reports.

The 2<sup>nd</sup> Internal QC Reports must be submitted by all Ukrainian partners by [November 30, 2104](#) as latest.

The 1<sup>st</sup> External Assessment Reports must be provided by Ukrainian university partners by [November 30, 2104](#) as latest. However partners are kindly asked to deliver the 1<sup>st</sup> external reports prior to the monitoring visit of NTO that is scheduled for October 24, 2014.

By the date of the 2<sup>nd</sup> coordination meeting each Ukrainian partner have submitted the 1<sup>st</sup> semi-annual internal QC report (report from SevNTU is pending) and no any serious risks that could badly influence the planned activities were alarmed by partners and thus there is no need to develop adjustments or re-plan the project activities.

### 4. Detailed planning of activities and deliverables for the 2<sup>nd</sup> half year of the project.

Partners discussed all activities planned in the workplan for 2<sup>nd</sup> half year of the project and agreed the content and dates for deliverables. The following was agreed:

*Activity 1.2. Elaboration of Brochure "Training engineers for sustainable development: EU experience"*

Materials to be provided by partners – [June 30, 2014](#)

Review of the developed materials – [July 31, 2014](#)

Publishing of the brochure – [August 31, 2014](#)

*Activity 1.3. Definition of skills, qualifications and learning outcomes*

Definition of skills and qualifications of graduates and learning outcomes for the updated study programmes – by [July 31, 2014](#)

KTH recommends to align the learning outcomes with learning activities where the role and number of seminars, practical trainings and discussions will be enhanced. The next step, recommended by KTH, is the development of the examination tool that will provide

comprehensive evaluation of the skills and qualifications obtained by students within the course.

*Activity 1.4. Development of the content of new course for MSc, PhD Programmes*

Partners have agreed the following subject areas for the update of study programmes:

Donetsk National Technical University – Steelmaking;

Ivano-Frankivsk National Technical University of Oil and Gas – Energy (oil and gas);

Kyryvi Rih National University – Mining and Mechatronics;

National Metallurgical Academy of Ukraine – Ironmaking.

It is expected that the new disciplines will consist of 3 modules where:

*1<sup>st</sup> module* will be common and designed to:

- raise the awareness of environmental and climate change issues;
- introduce the international initiatives and economic tools for sustainable development;
- introduce the interdisciplinary tools such as Life-Cycle Assessment.

*2<sup>nd</sup> module* will be industry specific and deliver:

- ongoing industry-specific EU initiatives;
- potential for reduction of emissions through introduction of innovations and best available technologies;
- carbon accounting methodology.

*3<sup>rd</sup> module* will be interdisciplinary team project.

The new disciplines will be incorporated in the existing study programmes. 2 – 3 ECTS shall be allocated for theoretical part and the rest goes under the diploma project (3 ECTS equals to 108 hours).

For PhD level the following structure for the update is offered:

- *1<sup>st</sup> module* focused on environmental challenges and interdisciplinary research tools for assessing environmental sustainability and industry-specific context of sustainable development;
- *2<sup>nd</sup> module* as interdisciplinary seminars.

***As the example the KTH had shared the content and structure of the course “Cleaner Production” and Ukrainian partners are required to develop the new courses/disciplines based on the provided sample.***

*Activity 1.5. Development of the course materials*

Ukrainian university partners shall develop the tutorials needed to deliver the new courses. Tutorials may include conspectus of lectures, handbooks, posters, tests and other kinds of teaching materials. Tutorials must be ready by **January 31, 2015**.

*Activity 4.1. Launching and updating the project website*

The structure and content of the project website is ready but website is not developed and launched due to the delays in financing. NMAU is responsible and stick to launch the website by **September 2014**.

All other Ukrainian partners are reminded to check the availability of the brief info about HETES project on their websites.

*Activity 4.2. Development of info-leaflets*

The 1<sup>st</sup> issue of the dissemination leaflet is published as scheduled and materials are given to project partners for further distribution to the target groups.

The 2<sup>nd</sup> issue of the dissemination leaflet is expected to be published by **September 30, 2014**.

*Activity 4.3. Promotion of project's activities in regional and national press and TV*

All partners are responsible for sufficient dissemination actions in their regions. Project may be reflected in all possible media. ***The visibility rules of Tempus programme must be observed (logo, reference to the support of EU, etc)***. In particular, partners are encouraged to contact TV Channel 5 and communicate the project via the special programme “Window to Europe” that is

free for universities.

All partners are also welcomed to create the groups and promote the project in social networks such as LinkedIn, Facebook, Twitter, etc.

***Any dissemination actions must be reported to project coordinator (copies of published articles, links to websites, photos, videos, etc).***

Partners shall use the form to record and report their dissemination actions and will be asked to provide the completed forms prior to the submission of the interim project report (expected in May 2015).

#### *Activity 4.4. Arrangement of workshop*

Workshop will be arranged at the Kryvyi Rih National University and is scheduled for **October 23 – 24 2014**. The workshop will be combined with field monitoring visit of NTO and is planned as follows:

[workshop – October 23, 2014](#)

[monitoring – October 24, 2014.](#)

Participation of all Ukrainian project partners in the monitoring activity is compulsory.

Participants must be fully aware of the activities and results of the project.

Each Ukrainian university must assign 4 persons, EU universities and Energostal – 2 persons and Volvo – 1 person. The mobility costs for the indicated number of people will be reimbursed from the project. Involving of more people are possible but only on a self-financing basis.

EU partners will be provided with the advice and support in planning of their mobility to Kryvyi Rih. Details are expected in [September 2014](#).

The workshop also coincides with the conference “Sustainable development of industry and society” organised by Kryvyi Rih National University. This overlapping gives great opportunity to disseminate and share the results of HETES project. Partners may apply to publish the articles in the conference proceedings and for this purpose shall contact Ms. Lyudmila Kruhlenko by [kruhlenko@gmail.com](mailto:kruhlenko@gmail.com)

#### *Activity 7.2.. Coordination management*

The 3<sup>rd</sup> Coordination meeting will be hosted by Buckinghamshire New University and is scheduled for [February 04 – 06, 2015](#) (main working days will be 04-05/02/2015).

Project will reimburse the mobility costs for 1 representative from each partner with exemption of 2 persons for coordinators. Depending on the balance of travel budget the update on the number of participants may be released in November 2014.

Each partner who needs the Invitation Letter for visa must provide the passport details by [November 15, 2014](#).

#### **4 Discussion and approval of the questionnaire to be used for benchmarking of students knowledge in environmental issues.**

The content of the questionnaire was finalised and agreed. Ukrainian university partners must perform the testing of M.Sc. students with developed questionnaire and provide results by September 30, 2014. Each university shall test at least 100 students.

#### **5 Discussion of the administrative and project management issues.**

The administrative procedures are fully agreed with European project partners and appropriate Partner Agreements have been signed.

There are some administrative issues that still need to be agreed with project partners from Ukraine. Ukrainian team has explained in very details the administrative and legal environment they operate and suggested solutions to Coordinator. Coordinator will do his best to agree on its side the administrative rules and payment procedures to be applied for Ukrainian partners, details shall be provided by [July 08, 2014](#). The payments of already incurred costs are expected in September 2014.

6 ***Situation with Sevastopol National Technical University.***

Participation of the Sevastopol National Technical University (SevNTU) was discussed. Taking into account that HETES is the national Tempus project for Ukraine that was designed to modernise the higher education in Ukraine the practical contribution of SevNTU to the core objective of the project is hardly possible due to the fact that SevNTU is located on the occupied territory and is governed by Ministry of Education and Science of the Russian Federation. In this situation with the purpose to perform the project as it was originally planned, the consortium has decided to redistribute the tasks of SevNTU among the IFNTUOG, KNU and NMAU. No additional workload was planned for DonNTU because undergoing military actions in the region makes difficult for this partner even to perform own tasks. Partners have also agreed that taking additional tasks requires involvement of more staff to project activities and thus the funds, originally budgeted for SevNTU, will be also redistributed among the respective Ukrainian universities performing additional workload in the fair way. Partners also will change the venue of the final project Conference (originally planned at SevNTU) and another project partner, who will host the Conference, will get the relevant printing and other costs budgeted for this Conference originally allocated to SevNTU.

This decision was approved by all partners and may be subject for change after EACEA will release the official policy on this matter. However, partners are agree that the SevNTU will have the access to deliverables of the HETES project.

7 **Summarising the results of coordination meeting and drafting the Minutes of the meeting.**

The evaluation of the performed activities allows to make a conclusion that consortium already developed sound basis for the next activities that creates confidence in achievement of the established objectives for HETES project.