

NETCENG



Joint Project Curricular Reform TEMPUS IV-6 (2013)

**New Model of the Third Cycle in Engineering Education
Due to Bologna Process in BY, RU, UA” (NETCENG)**

Project overview

Kick-Off Meeting

Vilnius Gediminas Technical University (Lithuania)

03 - 04.03.2014

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NETCENG facts

Theme for cooperation / Action

Curricular Reform - *Modernisation of curricula in academic disciplines identified as priorities by the Partner Countries, using the European Credit Transfer System (ECTS), the three cycle system and the recognition of degrees.*

Project duration: 3 years

Budget size (Tempus Grant)

€1 Mio 216,9 thousand

Selection results of the sixth call for proposals:

- 937 applications received,
- 171 (18,2%) proposals recommended for funding

Target countries / National priorities

This application addresses national priorities in curricula reform: Belarus, Russia, Ukraine - engineering & engineering trades

Project type:

Multi-country projects

Consortium size: 22 organisations



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EUROPEAN
Higher Education Area



TEMPUS & Bologna Process

Tempus is designed to support the modernisation of higher education systems in Partner Countries with regard to the Bologna process and European modernisation agenda for higher education





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Main goals

3 Transferable curricula/modules

- ✓ Effective communication with groups
- ✓ Theory and Practice in Research
- ✓ Survival in Labor Market (carrier managing)

8 Core curricula/modules

- ✓ Systems modelling and simulation
- ✓ Navigation in transport systems
- ✓ Sensoric in research
- ✓ Power Electronics & Systems
- ✓ Environmental Math. Modeling
- ✓ Satellite Image process Techniques
- ✓ Robotic systems
- ✓ Materials Science and Solidification Processing

guidelines and a model of new structured doc. Programmes

Innovative learning environment

- ✓ Doc colloquium rooms / labs
- ✓ Joint web based platform

Linking to the labour market

- ✓ Doctors in Labour Market (DLM) Offices

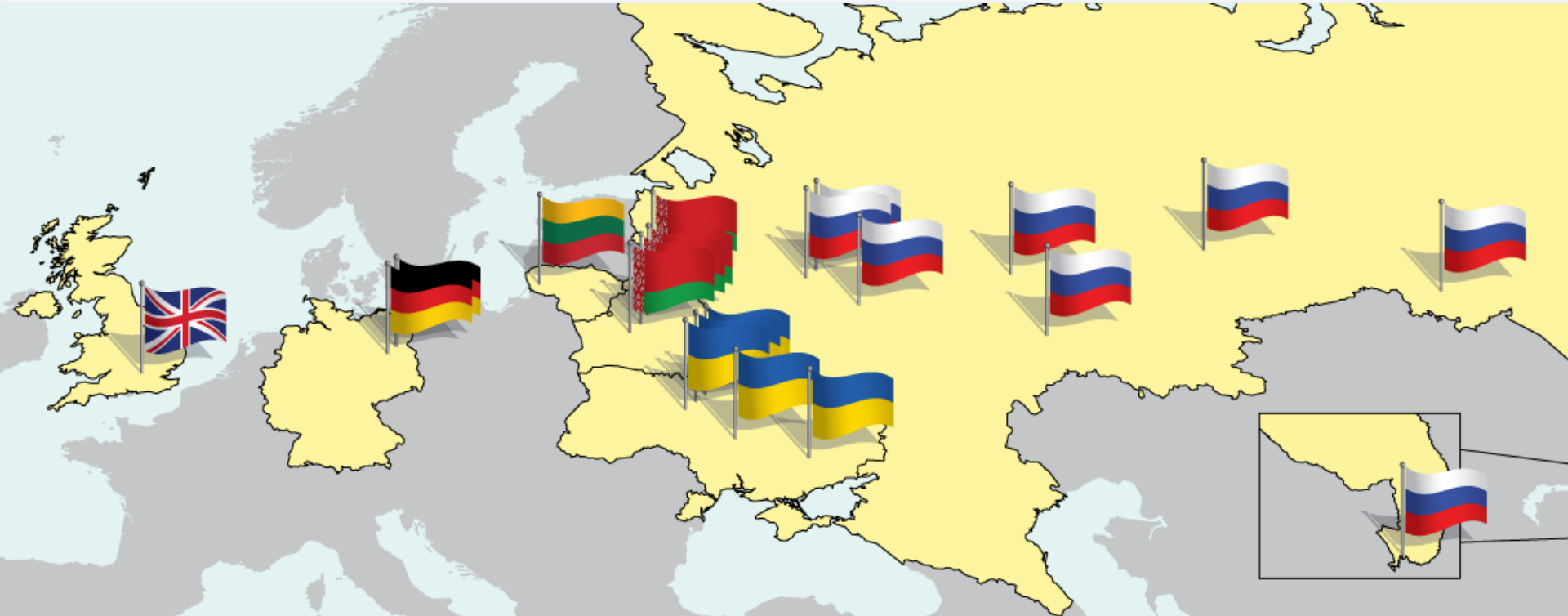


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Consortium as a whole

EU countries:
3 universities; 1 spin-off enterprise

Partner countries:
11 universities, 1 Technical Universities Association
3 industry corporations, 3 governmental organizations (Min. of Education...)



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Consortium

EU Organisations

- Vilnius Gediminas Technical University, LT (Coordinator)
- Technical University of Berlin, DE
- Engineering, Consulting and Management Office, DE
- Brunel University London, GB

Partner Countries Organisations

- Belarusian National Technical University, BY
- Belarusian State University, BY
- Polotsk State University, BY
- Stock Company “Engineering Buro Kamerton”, BY
- Ministry of Education of the Republic of Belarus, BY
- Kazan National Research Technical University n. a. Tupolev, RU
- Ryazan State Radio Engineering University, RU



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Consortium

- Far Eastern Federal University, RU
- Ural Federal University, RU
- State Research and Production Space Center, RU
- Technical Universities Association, RU
- Ministry of education and science of Russia
- Omsk State Technical University, RU
- Cherkassy State Technological University, UA
- National Aviation University, UA
- National Technical University of Ukraine “Kyiv Polytechnic Institute”, UA
- Yuzhnoye State Design Office, UA
- Ministry of Education, Youth and Sports of Ukraine



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Work plan overview

Project Year 1 (Start Phase)

1. **Review** on structure and content of current doc. programmes; develop and adopt guidelines and a model of new structured doc. programmes
2. **Develop teaching materials** for 8 new core curricula and 3 transferable modules and on this base a set of curricula and modules.
Develop new practice oriented supporting infrastructure
3. **Begin to develop, publish and purchase** a manual, handbooks and syllabi.
Joint web based platform
4. **Prepare a set of documentation** for DCR/Labs and DLM offices, purchase / install equipment.



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Work plan overview

Project Year 2 (Working out Phase)

1. **Training courses in EU:** Retrain academic teachers/supervisors in new curricula, methodology. Tentatively: 3 retraining courses in new curricula/modules (duration each two or three weeks)
2. **Staff training** for DLM offices will take place in TUB, prepared and carried out by ECM Office
3. **Master Classes:** minimum 14 Master Classes on operation of new DCR/labs will be prepared and delivered in target universities. Complete establishing DLM offices with stakeholders support
4. **International Doctoral Summer School**



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Work plan overview

Project Year 3 (Final Phase)

- 1. Pilot teaching /operation:**
Teaching students in new curricula /modules on new structured doctoral programmes
- 2. Accredited** a set of curricula and modules
- 3. International Doctoral Summer Schools**
- 4. Pilot operation** of DLM offices involving universities and stakeholders outside the project. This activity targets to ensure the sustainable operation.



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Work plan overview

Disseminations & Sustainable Activities

From the first till the last day of project life are planned activities on dissemination of information and ensuring of sustainability of project outcomes. Each target university will work out timetables for publications, information and sustainability ensuring events based on project activities especially by DLM offices.

It is planned to invite representatives from stakeholders and universities outside the consortium to promote and disseminate the project outcomes.

To involve new participants into the project activities there will be developed the "NETCENG Plus" agreement.

- Conferences & workshops
- Project web portal
- Involving stakeholders
- Finding and attracting sponsors
- Commercialization of results



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Work plan overview

Project Quality control

Project Quality control will be implemented on the basis of the target university's quality assurance systems.

Internal /external evaluation: In order to set up effective quality control mechanism, the Internal Evaluation Board (IEB) will be appointed. The list of activities will include: comparison with timetable of the project activities in Work plan; Evaluation of outcomes and their quality in form of Questionnaire / Interview reports received from target students /academics/ stakeholders, and graduates groups; external evaluation will be carried out by DAAD, NTO of partners countries and individual project's expert.



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Work plan overview

Project Management

A **Project Management Team** (PMT) – Project Council - will be formed as a strategic decision-making body inclusive one representative from each consortium member who at the same time will operate as coordinators in their institutions. The local coordinator will lead the special formed Local Project Team (LPT) of his institution.

Coordination meetings: International, regional and local/hosting coordination meetings.

Daily project administration and coordination: project management, administration and coordination will be carried out by the coordinator (VGTU) and project manager (ECM Office) with LPT from target universities.



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Good bye !

THANK YOU FOR YOUR ATTENTION!

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