

HEIn4 project consists of three core blocks designed to bring the established objectives of the project and four sets of supportive actions aimed to ensure smooth implementation of the project, high quality and sustainability of its deliverables.

Workpackage 1 – Study the experience of EU HEIs

Workpackage foresees 2 rounds of training visits to EU partners. The first round is for academic staff from Georgian and Ukrainian HEIs with a purpose to learn the new teaching methods and content of the curriculum relevant to business management under conditions of the new Industrial Revolution. The second round is for administrators from Georgian and Ukrainian HEIs (rectorate, faculty deans) with a target to learn the institutional issues – institutionalisation, interfaculty collaboration, feedback to curriculum from industry etc.

Participants of training visits will be selected based on such criteria as experience in curriculum development, language skills, commitment to project goals and gender equality. Participants of study visits will be involved to deliver the creative outcomes of the project and will share their experience at Seminars in Georgia and Ukraine.

Following activities will be carried out:

- Study of teaching methodologies and curriculum in relationship to Industry 4.0;
- Development of methodology concept and content of curriculum;
- Study of capacity building practices for collaboration with industry;
- Development of Case Studies

Workpackage 2 – Curriculum for Industry 4.0

Workpackage is designed to satisfy the urgent needs of industry by providing the specialized retraining courses for employees and by enhancing the teaching of Master programmes by delivery Industry 4.0 context and thus to equip graduates with the better employment opportunities and strategically prevent the skills shortage in a longer term perspective.

Optimal duration of course will be defined based on the EU experience in consultations with the industrial partners. Teaching materials will be developed in order to ensure fast conversion of initially on-site training into mixed and distance learning formats.

To more comprehensively exploit the expertise attained, the HEIn4 project will deliver the insights on the new transdisciplinary competencies required for operating the factories of the future and how this can be addressed in higher engineering education.

Following activities will be carried out:

- Development of short courses for upgrading industrial staff;
- Development of taught module "Industry 4.0 Business Management" for Master students;
- Development of recommendations for updating Engineering curriculum.

Workpackage 3 – Capacity building

Workpackage is designed to improve the capacities of Georgian and Ukrainian HEIs to embed the aspects of Industry 4.0 concept into the teaching practice and to provide the relevant up-to-date service for industry.

Within this workpackage the Virtual Factory Learning Lab will be created at each Georgian and Ukrainian university – partner of HEIn4 project. Labs will be established as a training platform for simulating the real business processes in virtual environment.

To get acquainted with real life business management in the Industry 4.0 context, the staff members of the Labs will visit the EU industrial partner Volvo Cars Gent which is one of the most advanced European enterprises and a leader in application of the Industry 4.0 technologies and business management principles. Experience will be shared on Workshops in Georgia and Ukraine.

Lab's staff will consolidate the human resource from various faculties for rendering the consultancy services. Scope of these services will not be limited only to the project context (business management reconfiguration) but will even go wider including also mastering of new technologies.

Following activities will be carried out:

- Setting the Virtual Factory Learning Labs;
- Upgrading the staff for the Labs;
- Development of content and capacity for consultancy services.

Workpackage 4 – Quality plan

The set of QC activities will be performed in order to keep the relevance of project activities to the needs of the target groups and to ensure the high quality of project deliverables. The mechanisms of both internal and external QC will be applied.

From the inception of the project the Reference Group, responsible for Quality Control are created at each Georgian and Ukrainian university including: vice-rector (head), faculty dean, member of academ staff, student and representative from industry. Meetings of Reference Gropus will be organised for discussion of achieved results and brainstorming. Upon the evaluation by Reference Gropus, the adjustment mechanisms will be developed, where necessary to ensure that outcomes are reached as planned.

The questionnaire will be developed to collect the feedback from attendees of new courses in order to further improve the quality of teaching and to better address the needs of particular sub-groups (e.g. large industry, SMEs, production and services sectors and so on).

Following activities will be carried out:

- Creation of Reference Group;
- Semi-annual meetings of RG;
- Evaluation of short courses for industry.

Workpackage 5 – Dissemination

Workpackage foresees the of actions developed to ensure that all target groups of HEIn4 project are aware of project, understand their benefits and committed to act towards the wider objective of the project within and beyond the project lifetime.

Following activities will be carried out:

- Dissemination via project web-site;
- Development of semi-annual dissemination leaflets;
- Holding the Seminars, Workshops and Conferences in Georgia and Ukraine.

Workpackage 6 – Exploitation

Pilot trial of the project deliverables will be started during the project's lifetime in order to assess the quality and, while the project is on-going, to introduce the necessary improvements in case any gaps or problems will be identified. This Workpackage will contribute to the sustainability of project results after HEIn4 project will be finished.

Following exploitation activities will be carried out:

- Pilot teaching to industrial staff;
- Pilot teaching to university students;
- Launching the Services of Virtual factory Learning Labs;
- Adjustment of deliverables;
- Holding the round tables with stakeholders under the Labs auspices;
- Permanent colloquium for retraining of teaching staff;
- Development of Business Sustainability Plans for Labs;
- Establishing the International network of Labs.

Workpackage 7 – Management

Project management strategy is focused on delivery of high quality outcomes by:

-consolidated teamwork of all project partners;

-clear leadership;

-transparent decision-making;

-balanced responsibilities.

The operational project management will be performed by Project Management Board that will have the semi-annual Coordination Meetings were partners will:

-discuss Activity Evaluation Reports;

-discuss and evaluate performance/deliverables

-approve contingency measures with respect to identified risks/assumptions;

-schedule upcoming activities/events.

Following management activities will be carried out:

- Day-to-day administration;
- Coordination management.