

e-Learning platform for higher education: entrepreneurial trajectory for engineering and science students

Summary

The wider objective of the project is to modernize master level curriculum in engineering and science at Russian and Indian universities in close cooperation with business community to form entrepreneurial competency for students to open their own business or to find their own professional path. **We are focusing** on engineering and science students who suffer from a lack of essential entrepreneurial skills needed for successful innovative activity: commercialization of science research results, innovation marketing, hi-tech start-ups.

As pointed out for instance in “The Entrepreneurship 2020 action plan” (European commission) entrepreneurship education prepares people to be responsible and enterprising individuals, helps to achieve their goals, also it’s a way to answer to challenges of economic crisis in the last 50 years.

The specific objective of the project is to create e-Learning entrepreneurial platform for engineering and science education that could provide flexible, adaptive, responsive educational trajectory.

This will be done through developing innovative educational tool that build on quick feedback form experts from business community. This means specifically that during educational process engineering and science students have access to knowledge, experience and skills of business community. **We will achieve this by** developing holistic e-Learning platform that could track educational progress of students’ (academic progress, e-portfolio), provide business cases directly from business community, afford ground for learning theory through “massive open online-courses” format, perform interactive F2F sessions, afford thesis defense online.

The project focus regions are in Russia: Tomsk, Kazan and Saratov and in India: Bombei, Deli, Madras and Hyderabad (tbc)

The project will start with the analysis of specific master level engineering curricula both in Russia and India to determine how to implement e-Learning platform. **We will achieve this by** interview with stakeholders: teachers, students, experts of business community.

We will set up methodology of e-Learning platform based on innovative teaching methods and instructional design. **This means that we** will determine best possible teaching methods for entrepreneurial education for engineering students (build on EU experience) and, we will use instructional design to make e-learning platform holistic.

We will determine requirements for e-Learning platform. **This means that we** determine every necessary element of e-Learning platform, how they should be structured, how should they should function, how design individual educational trajectories etc.

We will develop e-Learning platform based on requirements. We plan to outsource this activity.

Both training and dissemination efforts will be supported by build-in solution that will allow teachers, university staff/researchers and business experts to interact with each other and share experience.