



Electronic Aided Learning System

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Abstract: This article describes the educational project, which is supported by “OPPA”. The global objective of the Operational Programme Prague – Adaptability is to increase competitiveness of Prague by strengthening adaptability and performance of human resources and by improving access to employment for everybody. Priority Axis 3 – Modernisation of Initial Education – that means increase the quality of education and vocational training for people to meet the demands of the labour market. Development and improvement in university education curricula – development of especially the Bachelor’s and PhD curricula with respect to achieving the objectives of the Bologna Declaration.

Keywords: Operational Programme Prague – Adaptability, University, Education, E-learning

1. Introduction

The European Social Fund is one of the European Union structural funds. Almost four hundred projects have been supported in Prague thanks to this Fund, which contributed to the improvement of the social conditions of disadvantaged people, employee education and improvement of the teaching system in schools. The European Social Fund is one of two structural funds, through the mediation of which the financial funds designated for reducing economic and social disparities between the member states and their regions are being distributed. The second fund is the European Fund for Regional Development.

The basic objectives of the European Social Fund are:

1. Help for the unemployed when entering the labour market.
2. Equal opportunities for all to enter the labour market.
3. Social integration, help for people from disadvantaged social groups when entering the labour market.
4. Lifelong learning.
5. Development of a skilled and adaptable workforce.
6. Implementation of modern methods of work organization and business.
7. Improvement of the approach to and participation in the labour market for women.
8. Fight against all forms of discrimination and disparities related to the labour market.

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After the Czech Republic became a member state of the EU in 2004, the opportunity to draw subsidies from structural funds, including the European Social Fund extended also to the region of the Capital City of Prague.

In the period from 2004 to 2006, Prague had the opportunity to draw the total amount of EUR 58,8 million from the European Social Fund. The programme through which the money was flowing to Prague was called the Single Programming Document for Objective 3. In the period from 2007 to 2013, the subsidy from the European Social Fund that is available for the region of Prague reaches the total amount of EUR 108,4 million. These funds are drawn through the Operating Programme titled Prague Adaptability. This Programme is controlled by the Capital City of Prague, and in the Municipal Authority of the Capital City of Prague, the programme is controlled by the EU Funds department.

The Operating Programme Prague – Adaptability specialized on early and further education and social projects. The funds are designated for the implementation of modern methods of education in schools, which would motivate young people to study, for the improvement of employee qualification, and the programme also gives a chance to those projects, which help people with social or health disadvantages in seeking a job.

2. Project OPPA “Electronic Aided Learning Design”

The Czech Republic has many technical universities, which provide higher technical education. These technical universities compete among themselves in the best interests of students. Recently, much follows the level of quality education. The duty of every technical university is continually provide high quality university level studies. The introduction of teaching using modern teaching methods and procedures is a guarantee of quality university education. At the Faculty of Mechanical Engineering Czech Technical University in Prague is solving a project OPPA –Electronic Aided Learning System at increasing the level of quality university education. This project emphasizes mastery of bachelor studies with a view to promoting horizontal and vertical links between the subjects being taught. In terms of designing is considerable emphasis on the design methodology.

Table 1. Basic information about the project OPPA (CZ.2.17/3.1.00/33296)

Project Implemented by	Czech Technical University in Prague, Faculty of Mechanical Engineering
Project Name	Electronic Aided Learning System (SEPS)
Project Focus	Development of further education
Project Management	Department of Designing and Machine Components
Expert Guarantor	Prof. Ing. Vojtěch Dynbyl, Ph.D.
Leader (Solver)	Ing. Jaroslav Kříčka, Ph.D.
Project Manager	Ing. Jan Kanaval
ESF Subsidy	CZK 4,153,732
Project Implementation Period	04/2011 – 07/2013

The main objectives of the project:

1. Innovation content of the taught subjects and innovation of the university study as a whole.
2. Innovation website of the Faculty of Mechanical Engineering, Czech Technical University in Prague (promotion of using e-learning).
3. Creation of the individual electronic support of the university study.

Key project activities:

1. Detailed analysis of the current situation, identification of critical themes.
2. Design and creation of electronic support key themes.
3. Create a site concept for the implementation of links.
4. Specialist in creating e-learning support.
5. Innovations of selected courses for bachelor degree programm.
6. Creation of new courses for master studies in designing specializations.
7. Application of innovation teaching in summer and winter term.
8. Project management.
9. Project office and classroom building.

In the Fig. 1 is shown the system of links between subjects and departments.

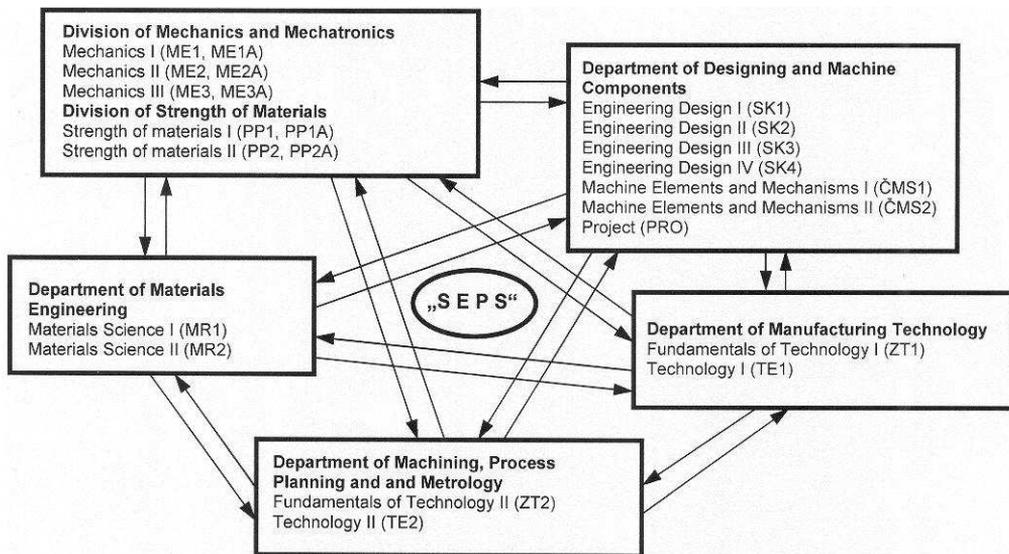


Fig. 1. Links between departments and subjects.

Attention must be paid to project monitoring (monitoring indicators) and project publicity. The number of new (innovated) products is planned (planned value - 44). There is observed number of supported and successfully supported people (students) in this project too. Once every six months of the project solving monitoring report is submitted for review.

Attention must be paid to the publicity of the project. Information about the project solving must be placed on the website of the Faculty of Mechanical Engineering and at the Faculty of Mechanical Engineering. In all correspondence and informational materials must be used the logo of the project (Fig. 2).



Fig. 2. Mandatory project logo.

3. Conclusion

Utilization of project OPPA is one of the ways to increase the level of quality education in technical universities. This project OPPA is focused on bachelor degree program B 2342 Theoretical Fundamentals of Mechanical Engineering. The study program is without specialisation. The main objectives of the project are innovation content of the taught subjects and innovation of the university study as a whole, innovation website of the Faculty of Mechanical Engineering, Czech Technical University in Prague (promotion of using e-learning) and creation of the individual electronic support of the university study.

All information about the Operating Programme Prague – Adaptability is available on the website <http://www.oppa.cz>.

Acknowledgement

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