



Tempus

530577-TEMPUS-1-2012-1-RS-TEMPUS-JPCR

IMPROVEMENT OF PRODUCT DEVELOPMENT STUDIES IN SERBIA AND BOSNIA AND HERZEGOVINA

web: <http://iprod.masfak.ni.ac.rs>



Presentation of IPROD project

Dr Aleksandar Miltenović



PROJECT OBJECTIVES

- wider objective :

To enhance the competitiveness of the economy in the region trough improving the education in the field of industrial product development

- specific objectives :

Establishment of new curriculums in the field of Management in Product Development and Innovation Management, Development of Eco-products and modernisation of existing curriculums in industrial product development at master/specialist and doctoral level

Establishment of continuous education courses in the field of Industrial Product development

Harmonization and modernization of education in the field of Industrial Product Development through training of teachers at colleges of applied sciences



TARGET GROUPS

- Students of academic studies in technical or economical fields
- Young professionals (age 27 - 40) within the companies
- Future engineering executives in development or product management
- Unemployed persons interested in career path in IPD areas
- Professors and teaching assistants from colleges of applied sciences



Tempus

530577-TEMPUS-1-2012-1-RS-TEMPUS-JPCR

IMPROVEMENT OF PRODUCT DEVELOPMENT STUDIES IN SERBIA AND BOSNIA AND HERZEGOVINA

web: <http://iprod.masfak.ni.ac.rs>

Importance of Product development, Innovation management and Eco-product development



Forbes New Posts +1 posts this hour Most Pop Hollywood's Mo

1
f Share
0
Twee
1
in Share
0
Submit
0
+1

ENTREPRENEURS | 7/23/2011 @ 3:05PM | 2,000 views

Innovate Or Die!

10 comments, 4 called-out + Comm

Where is AOL? MySpace? Or now Barnes a titans of success and innovation. Now, the management and their staff failed to recog market, failed to provide their customers w clients what they desire for a price in a mar friendly, cost effective, and can reach a larg

What does this tell us? The failures of these America and the American economy!! How actually one of the only sane players in an i failures of business is healthy and cleans tl

theguardian

Your search terms

News Sport Comment Culture Business Money Life & style Travel Environment

Guardian Sustainable Business Blog Hubs Events Awards Jobs Become a member

theguardian

Sustainable business

Resource Efficiency

Previous Blog home Next

Innovate or die: learning from new sustainable business models

Large firms must embrace the new sharing and circular economies – or else they risk being left behind

f Share 50
Twee 82
+1 3
in Share 21
Email

Posted by
Dax Lovegrove
Tuesday 4 December
2012 12.07 GMT
Guardian Professional
Jump to comments
(6)



■ "Innovate or die"

IPROD





Tempus

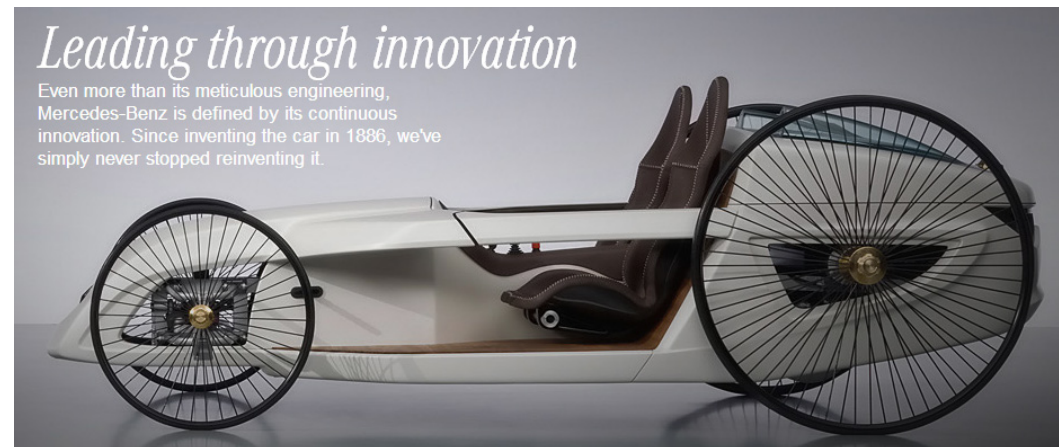
530577-TEMPUS-1-2012-1-RS-TEMPUS-JPCR

IMPROVEMENT OF PRODUCT DEVELOPMENT STUDIES IN SERBIA AND BOSNIA AND HERZEGOVINA

web: <http://iprod.masfak.ni.ac.rs>

Importance of Product development, Innovation management and Eco-product development

- New products, whether they take the form of new applications, new innovations, or entirely new goods, are an essential component of business success.
- New products are essential to survival.



IPROD





Regional companies

- Regional companies are not capable to answer to current market demands
- IPD structures - priority or balast?
- dissatisfied with competence profile of development engineers educated by PC universities
- Development engineers possess excellent professional and methodical competences but their creativity, elaboration potential and social competences are on a low level
- Increase economy competitiveness through innovation and creation of national innovation systems



WORK COMPETENCE

PROFESSIONAL COMPETENCE

- Specific professional knowledge, bases
- Wider professional knowledge

METHODIC COMPETENCE

- Skills, Use of professional knowledge, their combinations
- Strategic thinking, Innovation competence, planing
- Problem-solving skills, capability of making decisions

SOCIAL COMPETENCE

- Team work ability
- Cooperation ability
- Communications ability
- Tolerance
- Empathy
- Solidarity

PERSONAL COMPETENCE

Personal attitude, ethic, intellectual abilities, persistence, willingness to learn, behavior, self-confidence, awareness of their own responsibility...



Tempus

530577-TEMPUS-1-2012-1-RS-TEMPUS-JPCR

IMPROVEMENT OF PRODUCT DEVELOPMENT STUDIES IN SERBIA AND BOSNIA AND HERZEGOVINA

web: <http://iprod.masfak.ni.ac.rs>

WORK COMPETENCE

- Promotion of theoretical and methodological competence
- Promote the development of creativity and the potential to elaborate
 - Lectures
 - Workshops
 - Work on the development project





Tempus

530577-TEMPUS-1-2012-1-RS-TEMPUS-JPCR

IMPROVEMENT OF PRODUCT DEVELOPMENT STUDIES IN SERBIA AND BOSNIA AND HERZEGOVINA

web: <http://iprod.masfak.ni.ac.rs>

CONSORTIUM MEMBERS

University of Niš

University of Belgrade

University of Novi Sad

University of Kragujevac

University of Banja Luka

University of East Sarajevo

University of Mostar

Enterprises and public authorities

Regional Chamber of Commerce Niš

Regional Chamber of Commerce Kragujevac

GOŠA Machine and Equipment Factory

Zastava Vehicle Group

ORAO a.d. for production and overhaul

National Employment Service

EU partners

Karlsruhe Institute of Technology

Slovak University of Technology

Technical University of Sofia

Partners from education institutions

**School of Higher Technical Professional
Education**

Subotica Tech-College of Applied Sciences

Railway College of Vocational Studies

College of textile

College of Applied Mechanical Engineering

College of Applied Sciences





Tempus

530577-TEMPUS-1-2012-1-RS-TEMPUS-JPCR

IMPROVEMENT OF PRODUCT DEVELOPMENT STUDIES IN SERBIA AND BOSNIA AND HERZEGOVINA

web: <http://iprod.masfak.ni.ac.rs>

BUDGET (project proposal)

| | | I. PROJECT COSTS € | CONDITIONS |
|-----------------------------|--------------------------------|-----------------------|--|
| Direct costs | | | |
| 1 | Staff costs | 262,900.00 | Cannot exceed 40% of the total eligible direct costs |
| 2 | Travel costs and Costs of Stay | 151,025.00 | |
| 3 | Equipment | 209,100.00 | Cannot exceed 30% of the total eligible direct costs |
| 4 | Printing and Publishing | 35,150.00 | |
| 5 | Other costs | 39,760.00 | |
| Total Eligible Direct Costs | | 697,935.00 | |
| Indirect Costs | | 48,855.45 | Flat rate funding of 7% of the total eligible direct costs or 0. |
| TOTAL ELIGIBLE COSTS | | 746,790.45 | Must equal total project finance below |
| | | II. PROJECT FINANCE € | |
| A | Tempus Grant Requested | 670,810.45 | Cannot exceed 90% of the total eligible costs |
| B | Co-financing | 75,980.00 | Must be at least 10% of the total eligible costs |
| TOTAL PROJECT FINANCE (A+B) | | 746,790.45 | Must equal total eligible costs above |





Tempus

530577-TEMPUS-1-2012-1-RS-TEMPUS-JPCR

IMPROVEMENT OF PRODUCT DEVELOPMENT STUDIES IN SERBIA AND BOSNIA AND HERZEGOVINA

web: <http://iprod.masfak.ni.ac.rs>

BUDGET DISTRIBUTION

| Organization | State | TOTAL ELIGIBLE Costs (€) |
|--------------------------------------|-------|-----------------------------|
| University of Nis | RS | 155347.95 |
| University of Belgrade | RS | 73471.55 |
| University of Kragujevac | RS | 73305.7 |
| University of Novi Sad | RS | 78340.05 |
| University of Banja Luka | BA | 71780.95 |
| University of East Sarajevo | BA | 50011.8 |
| University of Mostar | BA | 49936.9 |
| TU Sofija | BG | 27220.8 |
| Karlsruhe Institute of Technology | DE | 98183.2 |
| Slovak Technology University | SK | 39638.15 |

| Organization | State | TOTAL ELIGIBLE Costs (€) |
|---|-------|-----------------------------|
| School of Higher Technical Professional Education | RS | 2375.4 |
| Subotica Tech-College of Applied Sciences | RS | 3466.8 |
| Collegue of Textile Leskovac | RS | 3402.6 |
| College of Applied Mechanical Engineering Trstenik | RS | 3402.6 |
| Railway College of Vocational Studies | RS | 2471.7 |
| College of Applied Sciences Požarevac | RS | 3381.2 |
| National Employment Service | RS | 1872.5 |
| Regional Chamber of Commerce and Industry Niš | RS | 834.6 |
| ORAO | BA | 2712.45 |
| Regional Chamber of Commerce Kragujevac | RS | 1872.5 |
| GOŠA Machine and Equipment Factory | RS | 1888.55 |
| Zastava Vechicle Group | RS | 1872.5 |

IPROD





OUTCOMES

1. Introducing of content and modernization of curriculums in field of Management of Product Development and Innovations management, Eco-product development and Industrial Product Development
2. Implementation of new and improving of existing curriculums
3. Introduction of continuous education courses
4. Development and introduction of training in Industrial Product Development of teachers at colleges of applied sciences
5. Quality control and monitoring
6. Dissemination
7. Sustainability
8. Project management



WP1 Introducing of content and modernisation of curriculums

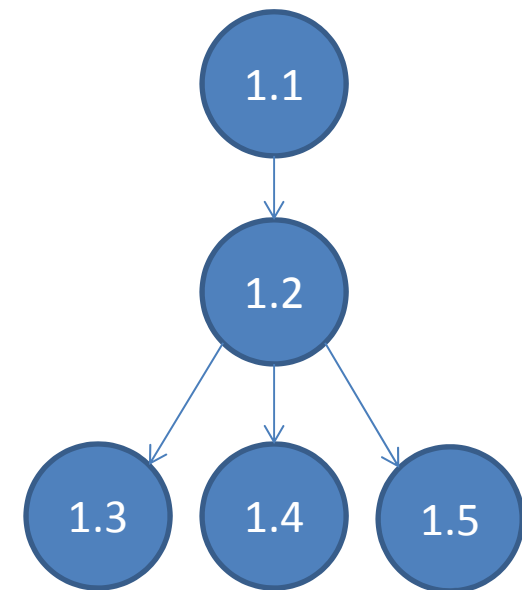
1.1 Definition of required competences and learning outcomes of curriculums in field of Management of Product Development and Innovations management, Eco-product development and Industrial Product Development

1.2 Comparative analysis of EU partners and PC curriculums in regard to quality standards and curriculum contents and structure

1.3 Development of structure and content of curriculum in field of Management of Product Development and Innovations management at master/specialist and doctoral level

1.4 Development of structure and content of curriculum in field of Eco-product development at master/specialist and doctoral level

1.5 Modernisation of structure and content of curriculum in field of Industrial Product Development at master and doctoral level



Thursday (13.12.2012), 16⁰⁰-18⁰⁰



Tempus

530577-TEMPUS-1-2012-1-RS-TEMPUS-JPCR

IMPROVEMENT OF PRODUCT DEVELOPMENT STUDIES IN SERBIA AND BOSNIA AND HERZEGOVINA

web: <http://iprod.masfak.ni.ac.rs>

WP2 Implementation of new and improving of existing curriculums

- 2.1 Training of PC university teachers for modernisation of pedagogical methodology by EU partners
- 2.2 Transfer of knowledge and expertise of EU partners to PC university teachers in the field of Management of Product Development, Innovations management, Eco-product development and Industrial Product Development
- 2.3 Procurement of equipment, software and literature
- 2.4 Preparing and publishing of new university textbooks and authorised lectures
- 2.5 Development of the student practice programme
- 2.6 Enrolment of students into new and modernised accredited degree programs

Thursday (13.12.2012), 16⁰⁰-18⁰⁰





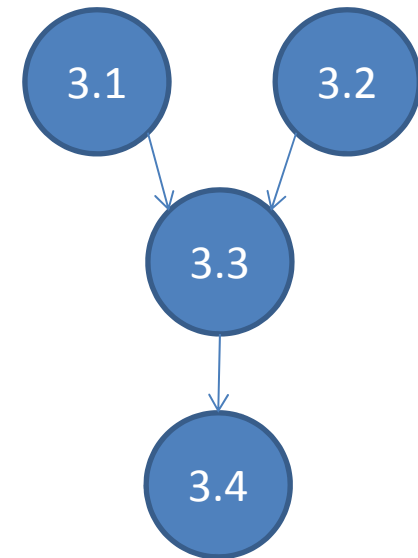
WP3 Introduction of continuous education courses

3.1 Development of business and marketing plan for creating of network with regional industrial enterprises

3.2 Development of structure and content of curriculums of continuous education courses

3.3 Preparing of continuous education courses material

3.4 Enrolment of participants into continuous education courses



Thursday (13.12.2012), 16⁰⁰-18⁰⁰



Tempus

530577-TEMPUS-1-2012-1-RS-TEMPUS-JPCR

IMPROVEMENT OF PRODUCT DEVELOPMENT STUDIES IN SERBIA AND BOSNIA AND HERZEGOVINA

web: <http://iprod.masfak.ni.ac.rs>

WP4 Development and introduction of training in Industrial Product Development of colleges of applied sciences

- 4.1 Analysis of state and contents of Industrial Product Development at colleges of applied sciences
- 4.2 Definition of training courses content based on preformed analysis
- 4.3 Preparing of training course materials
- 4.4 Enrolment of training participants
- 4.5 Restructuring of subjects by trained teachers at colleges of applied sciences

Thursday (13.12.2012), 16⁰⁰-18⁰⁰





WP5 Quality control and monitoring

- 5.1 Peer review of new and modernised curriculums, continuous education and training courses and pedagogical methodology
- 5.2 Self-evaluation of created/ modernised educational programs
- 5.3 Inter project coaching
- 5.4 Implementation of action plan for quality assurance

Thursday (13.12.2012), 12⁰⁰-13⁰⁰



Tempus

530577-TEMPUS-1-2012-1-RS-TEMPUS-JPCR

IMPROVEMENT OF PRODUCT DEVELOPMENT STUDIES IN SERBIA AND BOSNIA AND HERZEGOVINA

web: <http://iprod.masfak.ni.ac.rs>

WP6 Dissemination

- 6.1 Development and maintenance of project web portal (<http://iprod.masfak.ni.ac.rs>)
- 6.2 Preparation of project promotional publications
- 6.3 Publishing of papers at regional educational conferences and forums
- 6.4 Organisation of dissemination workshops for project stakeholders
- 6.5 Organisation of project conference
- 6.6 Preparation of presentation at educational and job fairs

Thursday (13.12.2012), 13⁰⁰-14⁰⁰





WP7 Sustainability

- 7.1 Preparing of accreditation/re-accreditation of new and modernised degree programs
- 7.2 Establishing of network with regional industrial enterprises
- 7.3 Preparation of application for continuous courses financing at National employment services
- 7.4 Preparation of application for training of teachers at colleges of applied sciences financing at Ministries of education
- 7.5 Definition of the marketing plans for active students and labour market

Thursday (13.12.2012), 13⁰⁰-14⁰⁰



WP8 Project management

- 8.1 Definition work packages management teams
- 8.2 Definition of manual for project management
- 8.3 Organisation of inner project consortium semi-annual meetings
- 8.4 Organisation of annual project consortium meetings

three levels of Management:

- ☐ Work package managers,
- ☐ Internal Project Management and
- ☐ Project Management Committee

Thursday (13.12.2012), 10⁰⁰-12⁰⁰



Tempus

530577-TEMPUS-1-2012-1-RS-TEMPUS-JPCR

IMPROVEMENT OF PRODUCT DEVELOPMENT STUDIES IN SERBIA AND BOSNIA AND HERZEGOVINA

web: <http://iprod.masfak.ni.ac.rs>

Thank you for your attention!

