



University of Niš

EACEA 530577 – 2012 – RS – TEMPUS – JPCR



**Improvement of Product Development Studies in Serbia And
Bosnia and Herzegovina**

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Tempus

Meeting of the Internal Project Management (IPM)

Activity date: 27th November 2013**Organizer:** University of Novi Sad**Location:** University of Novi Sad, Novi Sad, Serbia**Present:** 10 participants out of 10 with voting rights

- UNI – Prof. Dr.-Ing. Vojislav Miltenović,
- UB – Prof. Dr.-Ing. Radivoje Mitrović,
- UNIKG – Doc. Dr.-Ing. Mirko Blagojević,
- UNS – Prof. Dr.-Ing. Siniša Kuzmanović,
- UBL – Ass. Dr.-Ing. Milan Tica,
- UES – Doc. Dr.-Ing. Biljana Marković,
- SVEMO – Doc. Dr.-Ing. Adisa Vučina,
- TUS – Mr.-Ing. Sanel Purgić as replacement of Prof. Dr.-Ing. Stefan Stefanov,
- KIT – Dipl.-Ing. Norbert Burkardt,
- STU – Prof. Dr.-Ing. Marián Tolnay as replacement of Prof. Dr.-Ing. Miroslav Vereš,

and 15 other participants.

Report:

The meeting was opened at 09:00 h on Thursday, November 2013 by the Coordinator of the project Prof. Dr.-Ing. Vojislav Miltenović. The venue of the meeting was the Assembly Hall of the Faculty of Technical Sciences. Coordinator of the project opened the meeting, introduced participants with meeting Agenda, and invited presenter Dr.-Ing. Aleksandar Miltenović to present the first topic of the meeting – Definition of required competences and learning outcomes of curriculums in field of Management of Product Development, Innovations management, Eco- product development and Industrial Product Development.

Dr.-Ing. Aleksandar Miltenović presented the revised version of the WP 1.1 report based on comments submitted by EU partners. Furthermore he presented the topic "What is Product Development at bachelor, master and doctoral studies" which was defined at IPM meeting held at Karlsruhe. After the presentation a discussion about the report and competences in Product

Development is opened. Dipl.-Ing. Norbert Burkardt said that is important for students to learn with understanding, because middle-size companies need engineers who have ideas and use theoretical knowledge to solve problems. Also, he explained on example of lightweight design the competences which student have to possess at the end of the course. Dipl.-Ing. Milan Banić explained why definition of product profile must be defined by engineers. All partners agreed about problems in connecting education and needs of industry, especially in understanding how to use theoretical knowledge in practice and skills for presentation of their work. Prof. Dr.-Ing. Adisa explained that when student finish studies, he has to start to learn how to learn, but in that case, practical knowledge. Doc. Dr.-Ing. Biljana Marković said that our target must be a change in teaching methodology in order to give opportunity to students to perform better when they start to work in companies. Dipl.-Ing. Norbert Burkardt said that student must learn how to work on realistic projects in order to be able to search for solutions. Also, he said that is good to define realistic product development target on the beginning of the course. Dipl.-Ing. Milan Banić explained that many small companies are connected with universities in Republic of Serbia in field of research and he believes that is good solution. Also, it is good for small companies to join in clusters or technological centers, because of competitiveness to the companies of developed countries.

Because there were no further discussions, Dipl.-Ing. Milan Banić started with presentation about results in modernization and developing of new curriculums of University of Nis. Based on survey results done at WP 1.1 and EU partner's recommendations, UNI tried to develop its own Product Development approach due to specifics of education system and specific industry needs. He explained that is based on project proposal, UNI have obligation to do introduce new curriculum in field of Management of Product Development and Innovation Management. UNI decided to introduce new module on master studies Engineering Management due to institutional constraints. UNI tried to introduce the independent study programme but the Faculty of Mechanical Engineering management decided that, due to institutional policy, the new study programme can only be module in a larger study programme Engineering Management. In principle the difference is only formality as the module will be fully independent. Furthermore, the whole study programme will go to a reaccreditation because of introduction of the new module, although it was accredited only a year ago. Dipl.-Ing. Milan Banić explained actual status about accreditation of this programme and said that the first enrolment will be in the next school year. He presented new master course curriculum and explained all curriculum subjects. He explained how to estimate the percent of reconstruction and continued with presenting modernization of studies in field of Industrial Product Development in framework of WP 1.5. Mr. Banić explained what is actual situation with accreditation and what is done at bachelor, master and doctoral studies and presented new and modernized subjects. Also, he said that in principle a new master study programme in the field of Product Development was developed through extensive reconstruction of the existing studies. After short discussion about curriculums and subjects, Dipl.-Ing. Milan Banić thanked on attention and finished presentation.

Dipl.-Ing. Žarko Mišković started with presentation about report of the results in framework of WP 1. He represented what BU done in framework of activities 1.1, 1.2, 1.3 and 1.5. He emphasised that results of activity 1.1 are used for developing three training courses in WP 3. Also, he explained that new courses. Dipl.-Ing. Žarko Mišković presented results of activity 1.5 and listed conclusions. He thanked on attention and finished presentation.

After short discussion about relations between some subjects, Prof. Dr.-Ing. Vojislav Miltenović asked Doc. Dr.-Ing. Milan Rackov from UNS to present report of results in framework of WP 1. Doc. Dr.-Ing. Milan Rackov said that, because of short deadline for accreditation, they had to made quick decision about including of subjects, curriculum modifications and developing new curriculums. Also, he presented and explained modernised curriculums with subjects and said that students, with modernised curriculum, have more possibilities to choose. He thanked on attention and finished presentation. Prof. Dr.-Ing. Vojislav Miltenović opened discussion, but because there were no questions, he asked Doc. Dr.-Ing. Mirko Blagojević from UNIKG to present results in framework of WP 1. Doc. Dr.-Ing. Mirko Blagojević explained that the greatest problem for accreditation was the lack of time, because of deadline. They organized two meetings and he described decisions and conclusions from those meetings. He presented modernized subjects at Master and Doctoral levels of studies. He thanked for attention and finished presentation. Discussion was opened, but because there

were no questions, Prof. Dr.-Ing. Vojislav Miltenović asked Doc. Dr.-Ing. Biljana Marković to present results in framework of WP 1. She said that they organized several meetings at UES and discussed about their possibilities and how to respond on demands of this project. Doc. Dr.-Ing. Biljana Marković explained what topics of meeting were. Also, they started to prepare new subjects of curriculums in the field of Product Development. She presented new subjects at Master level which was adopted at the scientific and research council meeting of UES. Prof. Dr.-Ing. Adisa Vučina from SVEMO presented the activities SVEMO performed during realisation of WP 1. Doc. Dr.-Ing. Milan Tica presented the results of UBL during realisation of WP 1. He said that UBL performed the first step for defining and introducing of new Basic and Master studies in field of Product Development and Design. Also, he said that, in this case, activity 1.4 will be joined with activity 1.5 to create Product Development curriculum oriented towards Eco-product design at Master level of studies. Prof. Dr.-Ing. Vojislav Miltenović opened discussion and Dipl.-Ing. Milan Banić said that will be good for all partners to have information how much subjects are reconstructed and modernized, because that will be part of Intermediate report. Because there were no more questions, chairman closed discussion.

After the brake. Prof. Dr.-Ing. Vojislav Miltenović opened the second part of the meeting devoted to realisation of other DEV work packages. Dipl.-Ing. Milan Banić said that information about which equipment is procured must be send in next seven days, because that information have to be send in project officer for approval. List of equipment procurement also have to have equipment which is co-financed with detailed information. He continued with presenting results in framework of activity 2.5. He presented and explained developed student practice program for UNI, and said that is available for partners. Further, he presented how to organize activities in 3.3 and emphasized that is end of December internal deadline for action plan about curriculums. He said that all remarks valid for WP 3 can be also applied for WP 4.

Project coordinator discussed the application for financing of developed courses in WP 3 and WP 4 with National Employee Service and Ministry of Education. He emphasised that application preparation should start as soon as the calls from the noted institutions are issued. He said that, partners have to be careful about external financing of courses and other activities, because everything what is paid from budget of the TEMPUS project has to be free and available for the students and stakeholders of the project until the project end. Partners discussed about documentation necessary for application preparation and about measures to achieve sustainability of developed courses. He said that some kind of information brochure with curriculums should be done. He repeated that all partners have to improve dissemination and present results as news to project web portal. Prof. Dr.-Ing. Vojislav Miltenović explained the plan for transfer of knowledge and expertise of EU partners to PC university teachers and the topics of the trainings. He proposed distribution of students to EU partners as follows: 5 places for PhD students or teaching assistants, from UNI, BU, UES and UNIKG o to KIT; one from UNS and one from SVEMO will go to TUS; and one from UBL will go to TUS. Prof. Dr.-Ing. Vojislav Miltenović opened discussion. After short discussion, Prof. Dr.-Ing. Vojislav Miltenović ask partners for voting about distribution of students, and proposal is unanimously adopted. After that, Prof. Dr.-Ing. Vojislav Miltenović reminded partners that selling of literature financed by Tempus project is strictly forbidden. He asked all partners to deliver until end of December the titles of textbooks in field of theme of the project, in order to, in mutual cooperation improve publication quality as much as possible. Prof. Dr.-Ing. Vojislav Miltenović opened discussion and partners discussed about plans for authorised lectures and textbooks. Dipl.-Ing. Milan Banić repeated that all results, including activities in publishing of the literature, have to be published on web portal of the project because it is very important to share information about progress of the project. Because there were no more questions, discussion is closed.

After that, project coordinator explained the process of peer review of the developed curriculums to EU partners. He reminded that TUS have to organize meeting of IPM during summer, so ask representative of TUS to inform partners about date and time as soon as possible. Partners discussed about meeting in TUS and peer review process. Because there were no more questions, discussion is closed.

Prof. Dr.-Ing. thanked to the partners and wish them a successful project year and closed the meeting.

Meeting concluded at 13:20 h.