

## Report from visiting University of Maribor, UM-FERI, Slovenia

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### **Activity 1.1 Current practices and principles**

This was not the first visit of professors from Technical faculty from Čačak to UM-FERI, since we had a very productive collaboration during previous two years that was based on bilateral project "Plan of the strategy for the development and application of the electronic education in Serbia and Montenegro". This TEMPUS project is the result of the previous collaboration.

During the previous visits, professors from the Technical faculty are introduced in detail about structure and organization of studies at UM-FERI (<http://www.feri.uni-mb.si/podrocje.aspx?id=0>)

In the framework of TEMPUS JEP 41016-2006 project it is planned to establish hypermedial classroom for providing courses of the new M. Sc. Study in e-learning at the Technical faculty Čačak, and to enable distance delivering of courses. As starting activities, various configurations of the video conferencing systems and ambiantal requests for video-conferencing room are reconsidered.

The purpose of this visit was to further introduce with hypermedia classroom at UM-FERI HIPULAB ( <http://www.hipulab.uni-mb.si/>), and the latest research activities in the area of e-learning.

Slovenian researches have presented possibilities and characteristics of their hypermedia classroom (Fig. 1).



Figure 1. Hypermedia classroom at UM-FERI

Hipermedia classroom HIPULAB supports many activities such as hipermedia lectures, remote lab exercises, multipoint videoconference, video chat, etc.

Three models of delivering hipermedia lectures are used at UM-FERI:

- Video on demand lectures
- Lectures supported by videoconferencing system and
- Lectures provided by Moodle LCMS system

We have also discussed about minimal requirements concerning equipment, computer network and classroom ambient requirements for providing streaming transfer of the satisfied quality.

They have presented the content of their research and practical experiences about creating e-learning teaching materials. Two different methods are used at UM FERI:

- Creating of e-lectures with specialized software applications. They prefer using EXE learning authoring tool, Course Genie and Microsoft producer.
- Recording e-lectures using video technology and reproduction on demand

I was in presence at student testing concerning evaluation of advantages for applying video on demand system in teaching purposes. Testing was carried out by young researcher Primož Kosec, who is also student of doctoral studies (Fig. 2). Final results and conclusions of this evaluation will be published in one research article and professors from Technical faculty will be able to rely on those experiences.



Figure 2. Student evaluation

It is agreed that during the next visit to FERI which is planned for february, 2008 professor from Technical faculty will have an intensive training on usage of equipment and software applications concerning preparing and delivering of e-learning materials.

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