



# Round tables and special sessions

DEV 6.2



# BAEKTEL

Blending academic and entrepreneurial knowledge  
in technology enhanced learning

*Blending **Academic** and **Entrepreneurial** Knowledge  
in Technology enhanced learning – BAEKTEL*

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in Technology Enhanced Learning**

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## 1 Introduction

In order to introduce BAEKTEL network, special working sessions are organized in all WB partner countries with the idea to promote OER concept and BAEKTEL network to interested parties at labour market and Higher Education institutions.

## 2 Panel: Quality of MOOCs: Are Massive Open Online Courses (MOOCs) threats or opportunities for education? The Fifth International Conference on e-Learning (eLearning-2014), Belgrade, Serbia

The Fifth International Conference on e-Learning (eLearning-2014), took place on 22<sup>nd</sup> and 23<sup>rd</sup> of September 2014 in Belgrade, Serbia. The conference under the name “Legal And Technological Conditions for Open Educational Resources in Serbia” covered some main topics such as: current legal conditions regarding OER in Serbia, current technological conditions regarding OER in Serbia, weaknesses, deficiencies, and ambiguities regarding the OER implementation and methods for improvement of the offering and implementation of OER. The panelists drew attention on how MOOCs really are part of HE; can MOOCs be judged as a quality course if it does not include student assessment; the attitude of employers when having a candidate presenting a MOOC completion certificate; is the quality of a MOOC guaranteed by the reputation of the university offering it; should MOOCs be subject of the traditional quality and assurance procedures or should new tools be conceived.

## 3 Round table: Creating environment for blending academic and entrepreneurial knowledge using open educational resources; Information technology 2015 conference - Žabljak, Montenegro

From 23<sup>rd</sup> to 28<sup>th</sup> February 2015 the 20<sup>th</sup> jubilee annual IT'15 conference was held in Žabljak, Montenegro. The conference, in its nature, is international scientific and professional gathering, being organized by Faculties of Electrical Engineering from Podgorica, Belgrade, Niš, Novi Sad and Banja Luka. Visitors were introduced to the BAEKTEL project, its objectives and the members of the project consortium. The presentation also emphasized the advantages and possibilities that BAEKTEL presents to Western Balkans and broader. After explaining the concept of open educational resources and their role in BAEKTEL, many of other Universities' staff had a lot of questions about their implementation and sustainability. That led to a productive discussion where participants concluded that further research and education on the topic needs to be done in Montenegro



Figure 1: Round table at the IT' 15 Conference held in Žabljak, Montenegro

#### **4 Session: Technology enhanced learning (TEL) - new perspectives in higher education New Technologies in Education 2015, Belgrade, Serbia**

On 27th and 28th of February 2015, during the conference New Technologies in education as a part of a session Technology enhanced learning (TEL) - new perspectives in higher education some of the main ideas of the BAEKTEL project were presented. Participants from HE institution and IT companies were introduced with the new possibilities for improving higher education through the implementation and promotion of e-learning platforms and OERs. BAEKTEL project should contribute to the increase of the quality in HI by publishing OERs in cooperation with the companies. One of the main papers presented at the conference included: the systematic analysis and international standardization overview in the field of e-learning, with development and planning activities, especially ISO/IEC JTC 1 SC 36 and some aspects and examples of standards in Massive online open courses. One significant field was covered during the conference concerned LRMI markup of OER content within the BAEKTEL Project, which deals with the approach to tagging of OER content with metadata within the BAEKTEL project with the aim of increasing the discoverability of OER materials by potential users. The issue of Development of Open Educational Resource (OER) for Natural Language Processing was also emphasized, presenting the development of an online course at the edX BAEKTEL platform named “Lexical Recognition in the Natural Language Processing (NLP)” based on the course of the same name for PhD studies at the University of Belgrade, Faculty of Philology. The conference also included a paper on Implementing E-Portfolios Within An Academic Environment, which outlined an approach to implementing the possibilities offered by e-portfolios for improving the educational process within an academic environment.

## 5 Session: Massive Open Online Courses: edX vs Moodle MOOC, International Conference on Information Society and Technology (ICIST 2015), Kopaonik, Serbia

The BAEKTEL project results were disseminated at the International Conference on Information Society and Technology (ICIST 2015) held on Kopaonik, Serbia on March 8-11, 2015. The main objective of the conference was to provide a platform for ICT oriented researchers and practitioners from all over the world to present their research results and development activities. ICIST special focus was at the Future Internet Technologies, Architectures and Applications. During the conference the paper titled “Massive Open Online Courses: edX vs Moodle MOOC”, with results obtained in the framework of Tempus BAEKTEL project, was presented. The presentation was performed under the topic: Learning Management Systems. Also, the participants were able to learn about the results from comparative analysis of edX and Moodle MOOC pointing out weakness and strengths of both platforms.



Figure 2: Participants of the Session: Massive Open Online Courses: edX vs Moodle MOOC



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## **6 Workshop: New Trends in Education for Chemistry, Chemical Engineering and Materials Science, Romanian International Conference on Chemistry and Chemical Engineering (RICCCE), Sibiu, Romania**

Workshop "New Trends in Education for Chemistry, Chemical Engineering and Materials Science" was organized within the 19th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE) in Sibiu, Romania from 2nd to 5th of September 2015. Silvia Curteanu, member of BAEKTEL project team, led the presentation in which she pointed out the objectives and priorities, as well as the stages of the BAEKTEL project presenting also the conceptual map of the BAEKTEL network. In the second part of the presentation she explained the project role of the Technical University "Gheorghe Asachi" of Iasi (TUIASI) which is to ensure the external Quality Assurance (QA) of OER repositories at the partner universities at all stages of their life cycle (development and implementation) and to offer guidance and advice on how to improve them based on EU standards.

## **7 Session: BAEKTEL - an OER network, 2nd Internet of Education workshop 2015, Sarajevo, Bosnia and Herzegovina**

BAEKTEL project was presented during the 2nd Internet of Education workshop 2015, Sarajevo, Bosnia and Herzegovina on 18<sup>th</sup> of September 2015. The accent was put on new possibilities for enhancing higher education through implementation and promotion of e-learning platforms as well as OER.

## **8 Round tables and special sessions, meeting with stakeholders, Faculty of Information Technology, University "Mediterranean", Podgorica, Montenegro**

On 13<sup>th</sup>, 14<sup>th</sup> and 15<sup>th</sup> of April 2016 series of meetings and round tables were organised at the University "Mediterranean" in order to present the project and its results to different stakeholders from HE and business industry. The representatives of all important companies, especially in the field of IT industry attended the meeting and round tables. During the workshop Montenegrin Higher educational institutions and representatives of IT companies were introduced to the BAEKTEL network and BAEKTEL OER platform. Special focus was on possibilities for creating and sharing OERs in order to enhance vocational and professional education in Montenegro.





Figure 3: Round table at the Faculty of Information Technology

## 9 Workshop BAEKTEL Platform as a Model for Integration OERs in Theoretical and Vocational Knowledge at Universities in Montenegro, Faculty of Information Technology, University “Mediterranean”, Podgorica

On the 26<sup>th</sup> of May 2016 the workshop for students of three universities and high school scholars was organized at the Faculty of Information technology.

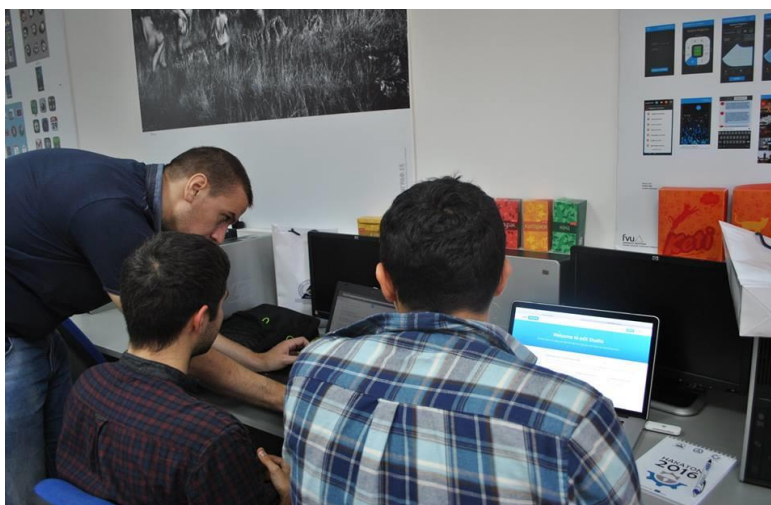


Figure 4: During the HAKATON workshop at the University “Mediterranean”

The workshop was the introduction for the HAKATON competition which the University "Mediterranean" has been organizing for several years. The main topics of the workshop were BAEKTEL Platform as a model for Integration OERs in Theoretical and Vocational Knowledge at universities and secondary schools in Montenegro.

## 10 HAKATON for Montenegrin University and High school Scholars, Faculty for Information technologies, University "Mediterranean", Podgorica, Montenegro

On May 28, 2016 Faculty of Information Technology (FIT), University "Mediterranean" Podgorica organized the HAKATON 2016 competition for high school and university students. The theme of this year's HAKATON was the creation of Online Educational Resources using free and open source software. The aim of the competition was to promote the importance and possibilities of online education to young people and increase awareness and importance of the development of OER. HAKATON 2016 was organized with the support of BAEKTEL project. Competition was attended by 40 students from all Universities and high schools in Montenegro Before competition students were introduced to purpose and activities of the BAEKTEL project. During practical workshop organized by BAEKTEL team members, students were able to learn about the development of open educational resources (OER) at edX platform After the mentoring sessions and opportunities to improve their idea, project teams presented their work - interactive online courses created on BAEKTEL edX platform in front of a five-member jury.

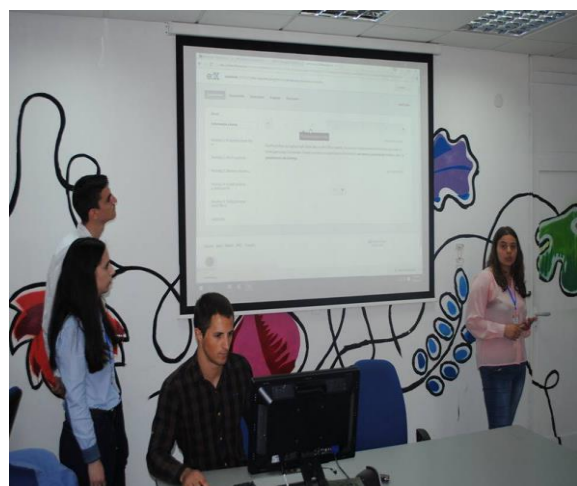


Figure 5: HAKATON competition and receiving awards at the University "Mediterranean"

## 11 “Are you ready for Action 2020?”, Prijedor

For the fourth consecutive year, ArcelorMittal celebrated lifelong learning and development during company-wide Learning Week. This year, the event took place from June 13th to 17th with the theme “Are you ready for Action 2020?” Within the Learning week scope several activities and events have been organized, among others a presentation and promotion of the BAEKTEL Project to ArcelorMittal employees. The presentation of the project was attended by the younger professionals from backgrounds of mining, geology, environment protection, mechanics, finance, legal and other backgrounds, being a potential users of the project platform in the future.



Figure 6: “Are you ready for Action 2020?”, Prijedor

## 12 Building capacity of Serbian Agricultural Education to link with Society, Novi Sad, Serbia

The final conference of the TEMPUS project CaSA (Building Capacity of Serbian Agricultural Education to Link with Society) was organized from 26th to 29th of September 2016 in Novi Sad, Serbia. The softver solutions for CaSA and BAEKTEL project were discussed and Advantages and disadvantages of OER were compared and analyzed. There were shared experiences in overcoming some challenges in applying softver solutions. Special accent was put on the importance of institutional support for creating, sharing and publishing of OER materials. Also it was discussed about the sustainability of TEMPUS projects such as CaSA and BAEKTEL.

### **13 Round table: Open Educational Resources University of Tuzla, Faculty of mining, geology and civil engineering, Tuzla, Bosnia & Herzegovina**

On the 21<sup>st</sup> of October 2016, Faculty of mining, geology and civil engineering, University of Tuzla, was a host of the Roundtable with entrepreneurs which consisted of 17 attendees. Name of the project presented was Blending academic and entrepreneurial knowledge in technology enhanced learning. The first goal of the project was to establish the OER framework in order to inspire technologically enhanced learning (TEL) within the institutions of higher education and lifelong learning in the ZB countries' companies as well as to develop and implement guidelines and procedures aimed at securing OER quality in accordance with EU standards.



**Figure 7: Round table: Open Educational Resources University of Tuzla, Faculty of mining, geology and civil engineering**

The second objective was to provide training for the relevant members of the higher education institutions, as well as companies responsible for the production of OER materials. Final aim was to produce course materials in different languages, in audio, video and written format.

### **14 Presentation of BAEKTEL to the delegation of Ministry of Science, Podgorica, Montenegro**

BAEKTEL project was presented to the delegation of Ministry of Science of Montenegro which was organized on the 2<sup>nd</sup> of December, 2016. The delegation consisted of Sanja Damjanovic, PhD, Minister of Science, general director and



secretary of Ministry. On the other side, delegation of UNIM consisted of rector, vice, rector, administrative director and general secretary. The member of project team, prof. Anđela Jakšić Stojanović, presented the project itself, its goals and objectives as well as achievements and sustainability of OER in Montenegro.



Figure 8: Presentation of BAEKTEL to the delegation of Ministry of Science

## 15 Session: Lexical Recognition in the Natural Language Processing (NLP), Kragujevac, Serbia

On 5th December 2016, during the promotion of printed and digital edition of The Dictionary of the Serbo-Croatian Literary Language and Vernaculars SASA at the Faculty of Philology and Arts (FILUM), University of Kragujevac, one of the courses established within BAEKTEL project was presented.



Figure 9: During the session: Lexical Recognition in the Natural Language

It is the course Lexical Recognition in the Natural Language Processing (NLP). Presentation was attended by students and teachers of Serbian language. They found the presented course very useful and valuable having in mind they don't have courses on Natural Language Processing or Computational Linguistics during their academic studies. The presentation was successful as they showed the interest to raise their knowledge in computational methods used in language studies. This course will decrease the lack of appropriate curriculum.

## **16 Seminar for teachers Pedagogical Institute of Tuzla, Tuzla, Bosnia & Herzegovina**

On 17<sup>th</sup> of January 2017, Seminar for teachers was organized in the Cantonal Chamber of Commerce, Tuzla. It was organized by the Pedagogical Institute of Tuzla and Technical School of Civil Engineering and Geodesy of Tuzla. During seminar, the teachers were presented OER and all their advantages and possibilities.

## **17 Round tables with stakeholders, Faculty of Information Technology, Podgorica, Montenegro**

On 10<sup>th</sup> and 11<sup>th</sup> of March 2017 series of meetings and roundtables with different stakeholders were organised at the University Mediterranean in order to present the final results of BAEKTEL project. The representatives of HEI, relevant ministries and business industry were present.



Figure 10: Round tables with stakeholders, Faculty of Information Technology

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