



Workshops to facilitate adoption of
common regulations for publishing
OER content, especially within
individual universities in WB

DEV 2.2



BAEKTEL

Blending academic and entrepreneurial knowledge
in technology enhanced learning

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

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for publishing OER content, especially within individual
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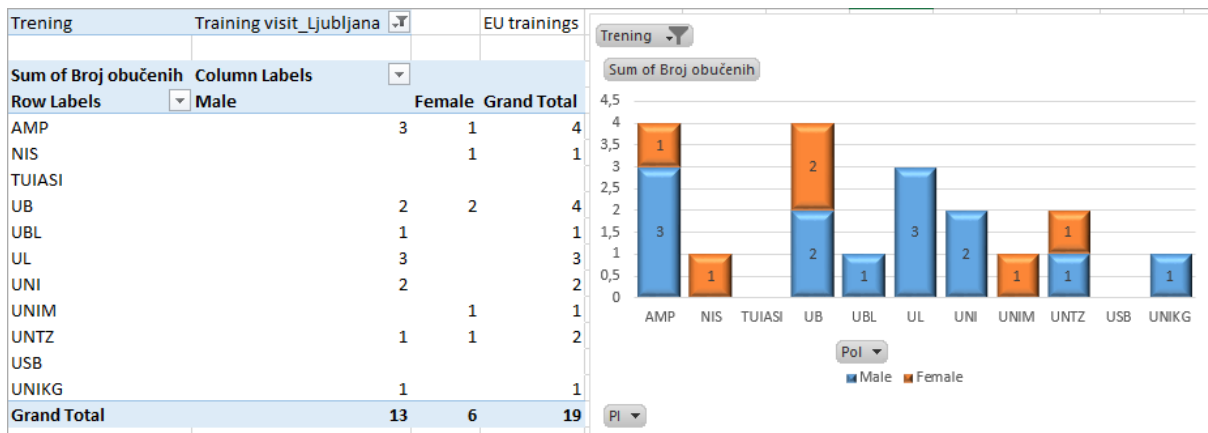
1 WP 1- EU trainings

1.1 Training visit - Practice and Principles of OER in EU, Ljubljana, Sept 1-3, 2014



University of Ljubljana presented a video OER material as an example of good practice for OER development. Partners discussed the role of the videos in the existing curricula, their use among students, as well as the problems of using commercial software. Besides among students, the OER material that will be produced in BAEKTEL initiative will also be used for educational purposes in the sense of lifelong learning and within the industry and universities.

Na Univerzitetu u Ljubljani prezentovan je video sa OER materijalom kao primer dobre prakse za razvoj OER-a. Partneri su raspravljali o ulozi videa u postojećem nastavnom planu, njihovu upotrebu među studentima, kao i o problemima u korišćenju komercijalnog softvera. Osim među studentima, OER materijali koji će se proizvoditi u BAEKTEL inicijativi takođe će se koristiti u edukativne svrhe u smislu doživotnog učenja i unutar industrije i univerziteta.

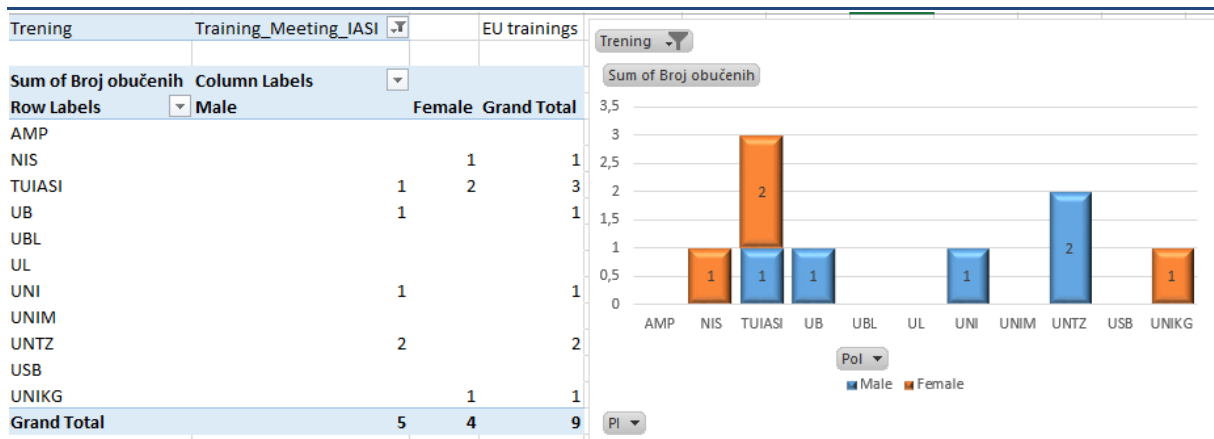


1.2 Training and working meeting, IASI, November 6-7, 2014



Training started with presentation entitled "Towards 5-Star Data in the E-university", which tackled the problem of open data. The next presentation, "Advanced educational resources for universities - RoEduNet experience" by Prof. Dr. Octavian Rusu, director of RoEduNet Romania, gave an ample view of the status of the internet high speed infrastructure used in the Romanian public educational sector. An example of how e-learning and open education resources are already used in a specific context of education was given by associate Prof. Dr. Adrian Adăscăliței from „Gheorghe Asachi” Technical University in the presentation „Using Open Educational Resources in Higher Education”. Associate Prof. Dr. Brândușa Robu from „Gheorghe Asachi” Technical University of Iași (TUIASI) presented the „Open Educational Resources projects in TUIASI”.

Trening je počeo prezentacijom nazvanom: "Ka podacima sa 5 zvezdica u e-univerzitetu" koja se bavila problemom otvorenih podataka. Sledeća prezentacija "Napredna obrazovna sredstva za univerzitete RoEduNet iskustvo" profesora Oktavijana Rusu, direktora RoEduNet Rumunija, dala je sveobuhvatan pogled na status infrastrukture interneta visoke brzine koja se koristi u rumunskom javnom obrazovnom sektoru. Primer kako se e-učenje i otvoreni obrazovni resursi već koriste u specifičnim oblicima obrazovanja dao je vanredni prof. dr Adrian Adăscăliței sa tehničkog univerziteta „Gheorghe Asachi” prezentacijom "Korišćenje otvorenih obrazovnih resursa u visokom obrazovanju". Vanredni prof. dr Brândușa Robu sa tehničkog univerziteta „Gheorghe Asachi” prezentovao je "Projekte otvorenih obrazovnih resursa na tehničkom univerzitetu u IASI-u".



Training statistic

1.3 Training meeting, Matera, January 22-23, 2015



The training session has been organized in 4 slots, each of them with a specific trainer. The training aimed at giving a wider perspective to e-Learning, rather than focus on technology. In particular, the training aimed to provide theories, models, experiences useful to shape an e-Learning project for the best effectiveness.

The first training slot was entitled "Learning and Knowledge in 21st Century's Organizations", and delivered by Prof. Giovanni Schiuma, University of Basilicata, Italy/University of the Arts London, UK.

The second training slot was entitled "Experiencing innovation in e-Learning: the

Trening sesija organizovana je u 4 dela, od kojih je svaki imao svog posebnog instruktora. Obuka je imala za cilj pružanje šire perspektive e-učenja, pre nego fokusiranje na tehnologiju. Trening je naročito imao za cilj da ponudi teorije, modele i iskustva korisna za oblikovanje projekta e-učenja sa ciljem postizanja najbolje efikasnosti.

Prvi deo treninga nazvan "Učenje i znanje u organizacijama 21.veka" održao je prof. Giovanni Schiuma, Univerzitet Basilicata, Italija/Univerzitet umetnosti London, Velika Britanija.

Drugi deo treninga pod nazivom "Iskustva inovacija u e-učenju: model i-učenja i

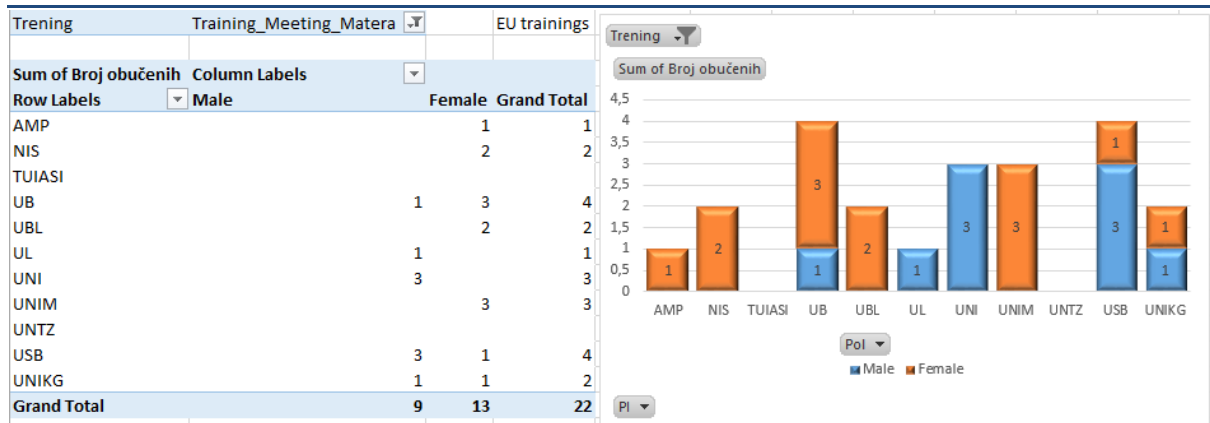
"i-learning" model and applications". It was delivered by Prof. Gianluca Elia from University of Salento (Lecce, Italy) Dept. of Engineering for Innovation, Management Engineering Laboratory, Euromediterranean Incubator of e-Business Management. His main issues have been: e-learning in the knowledge economy, paradigm shifts in human capital creation, four main challenges for effective e-Learning, the i-learning model, problem-based learning, blended learning, case-based learning, integrating content management, e-learning & virtual classroom, the emergence of MOOC and OER. The third training slot, "Entrepreneurial learning process to foster the development of entrepreneurial mindset", has been delivered by Prof. Giustina Secundo, University of Salento, Lecce, Italy, Department of Engineering for Innovation. She focused the attention around five main issues of learning that emerged from the learning of a particular competence: entrepreneurship. Why to develop an entrepreneurial mindset, what is the key competence 'Sense of initiative and entrepreneurship', where to diffuse the entrepreneurial spirit and mindset, how the entrepreneurial improve learning process. She also addressed the results from experimentation, and the challenges for implementing the entrepreneurial process.

Last presentation was delivered by Prof. Daniela Carlucci, University of Basilicata, Italy. Her presentation was entitled "Needs, obstacles, benefits of e-Learning for companies". Through an original, and participative training methodology, she accompanied the participants to the discovering of the main criticalities of an e-learning platform development.

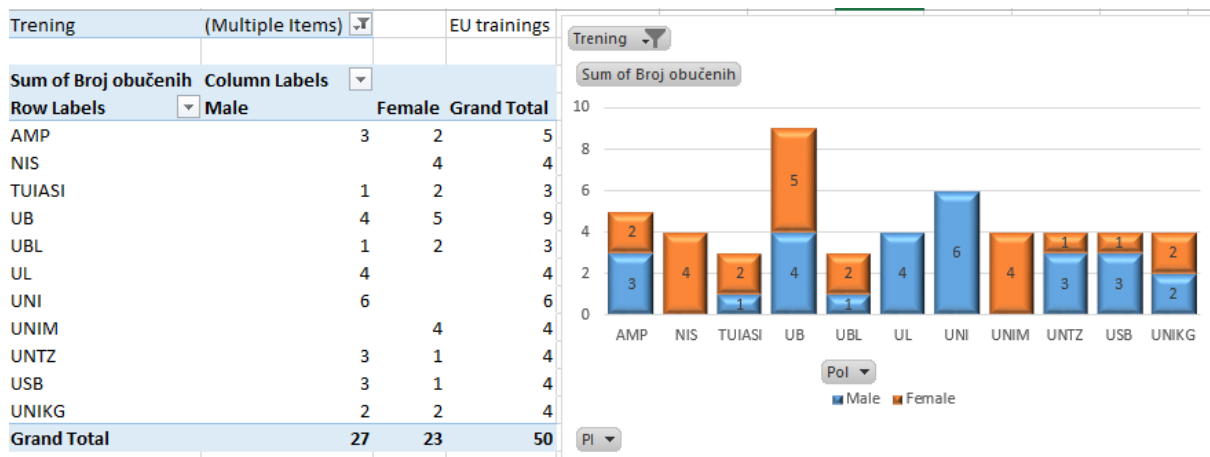
primene" održao je Prof. Gianluca Elia sa Univerziteta Salento (Lecce, Italija), Odeljenje tehničkih nauka za inovacije, Laboratorija za inženjerstvo upravljanja, Evromediterranski inkubator za upravljanje e-poslovanjem. Njegove ključne teme bile su: (e-)učenje u ekonomiji znanja, promene paradigme u stvaranju ljudskog kapitala, četiri glavna izazova za efikasno e-učenje, model i-učenja, učenje zasnovano na problemu, spojeno učenje, učenje bazirano na slučaju, integracija menadžmenta sadržaja, e-učenja i virtuelne učionice, pojava MOOC-a i OER-a.

Treći deo treninga "Preduzetnički proces učenja za podsticanje razvoja preduzetničkog načina razmišljanja" održala je Prof. Giustina Secundo, Univerzitet Salento, Lecce Italija, Odeljenje tehničkih nauka za inovacije. Ona je fokusirala pažnju na pet glavnih problema učenja koji proističu iz učenja posebne kompetencije: preduzetništva. Zašto razvijati preduzetnički način razmišljanja, šta znači ključna kompetencija "Smisao za inicijativu i preduzetništvo", gde širiti preduzetnički duh i način razmišljanja i kako unaprediti preduzetnički proces učenja. Ona je takođe govorila o rezultatima eksperimenata i izazovima sprovođenja preduzetničkog procesa.

Poslednju prezentaciju održala je Prof. Daniela Carlucci, Univerzitet Basilicata. Njena prezentacija nazvana je "Potrebe, prepreke, prednosti e-učenja za kompanije". Originalnom i participativnom metodologijom treninga, ona je učesnike vodila ka otkrivanju glavne kritične tačke razvoja platforme e-učenja.



Training statistic



EU trainings statistic

2 WP 2 – WB trainings

2.1 Training and Dissemination Meeting, Belgrade, September 22-24, 2014



The training at the Faculty of Mining and Geology started with the presentation on "How to do screen recording" by Saša Tatar from UBL. He presented the software for screen display recording: Camtasia Studio 8 and CamStudio (a free alternative). Two basic methods of recording lessons/tutorials were introduced: model of KhanAcademy.org and recording of prepared PowerPoint presentations. Technical guidelines were given, pertaining to desktop dimension (video resolution), the use of two drawing programs, Smooth Draw (free) and AutoDesk SketchbookPro, audio and video editing capabilities of Camtasia (combining multiple clips, eliminating background noise), preparing and exporting of finished videos and uploading them on YouTube. Practical advices and conclusions were offered on video length, preparing lessons and the procedure in case of errors during recording were supplied.

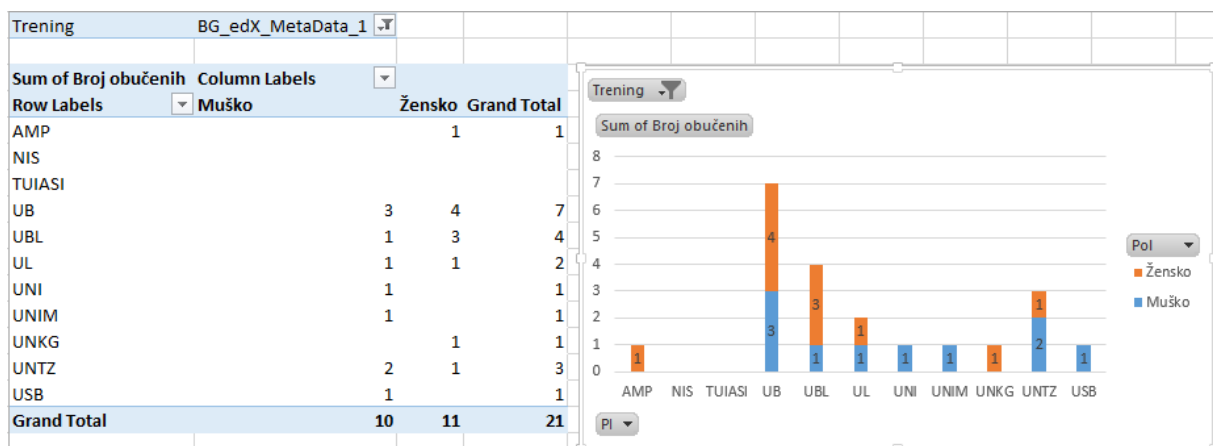
Trening na Rudarsko-geološkom fakultetu započeo je prezentacijom „Kako snimiti ekran“ Saše Tatara sa UBL-a. Prezentovao je softver za snimanje ekrana: Camtasia Studio 8 i CamStudio (besplatna verzija). Dve osnovne metode snimanja lekcija/tutorijala su prezentovane: Model KhanAcademy.org i snimanje pripremljene PowerPoint prezentacije. Data su tehnička uputstva, koja se odnose na dimenziju desktopa (video rezolucija), korišćenje dva programa za crtanje, Smooth Draw (besplatan) i AutoDesk SketchbookPro, audio i video mogućnosti za uređivanje Camtasia-e (kombinacijom više klipova, eliminacijom pozadinskog šuma), pripremanje i eksportovanje završenih videa i postavljanje na YouTube. Praktični saveti i zaključci su ponuđeni za dužinu video snimka, pripremu predavanja, i proceduru u slučaju grešaka tokom snimanja.

On the next day, a BAEKTEL edX workshop, conducted by Marija Radojčić from UB included several topics: general characteristics of edX platform, creating courses on the edX platform and setting up courses. All participants had hands-on experience in registering, logging to the platform, access to the courses, enrolment to the course, as well as access to the edX studio. Each participant created their own course, structured with various components, even with advanced editing text content written in LaTeX. Setting up of internal and external links, posting pictures and setting the video clips, adding static pages to the course, books, scripts, learning materials were discussed, as well as the general instructions for creating courses and didactic criteria.

The training was concluded by a BMP (BAEKTEL Metadata Portal) presentation, given by Nikola Vulović (UB) who explained account opening, distribution of editorial roles, meta-data entry on resources. As in the previous session the participants practiced the main skills for using the BMP Portal by creating meta-data for the edX courses they produced during the previous training session.

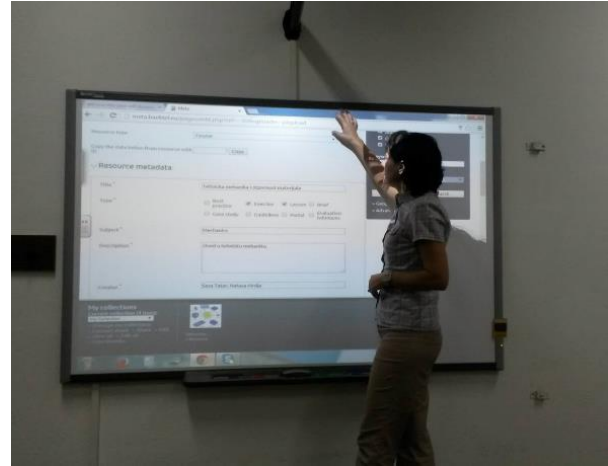
Narednog dana održana je BAEKTEL edX radionica koju je vodila Marija Radojčić sa UB-a i koja je obuhvatila nekoliko tema: generalne karakteristike edX platforme, kreiranje kurseva na edX platformi i postavljanje kurseva. Svi učesnici su imali praktičnu obuku u registraciji, logovanju na platformu, pristupu kursevima, upisu na kurs, kao i pristupu edX studiju. Svaki učesnik kreirao je svoj kurs, sastavljen od različitih komponenti, čak i sa naprednim uređivanjem sadržaja teksta napisanog u Latex-u. Raspravljalo se i o postavljanju internih i eksternih linkova, postavljanju slika i video klipova, dodavanju statičkih stranica kursu, zatim knjigama, skriptama, materijalima za učenje, kao i o generalnim instrukcijama za kreiranje kurseva i didaktičkim kriterijumima.

Trening je završen BMP (BAEKTEL Metadata Portal) prezentacijom Nikole Vulovića (UB) koji je objasnio otvaranje naloga, raspodelu uređivačkih uloga, unos meta podataka o resursima. Kao i u prethodnoj sesiji učesnici su vežbali osnovne veštine za korišćenje BMP portala za kreiranje meta podataka za edX kurseve koje su napravili tokom prethodne sesije.



Training statistic

2.2 Working meeting, Belgrade, October 3, 2014

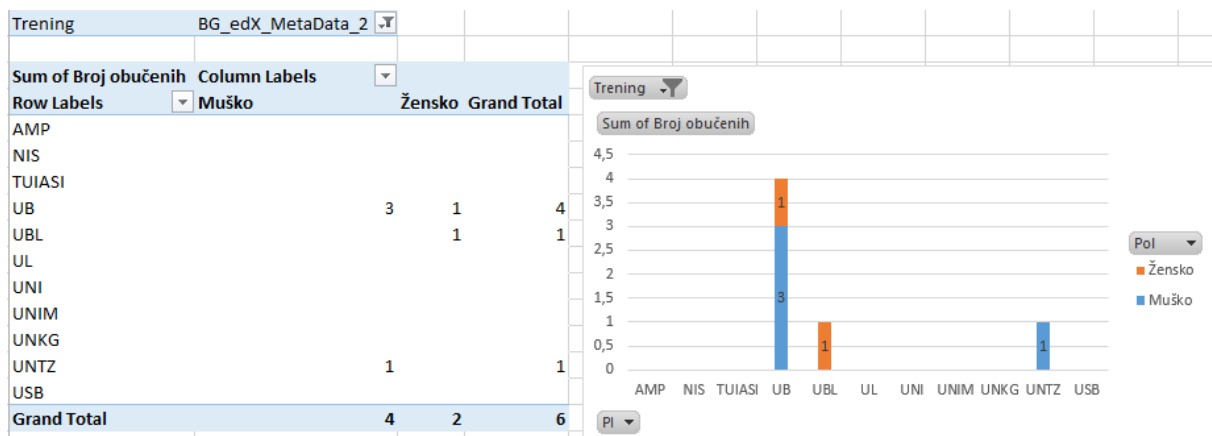


BAEKTEL edX workshop: Every participant created a course. A demonstration was offered by the moderator. Participants were expected to bring their own materials to incorporate in the course, or notify UB to prepare test materials for them. Moderator: UBL.

BAEKTEL edX radionica: Svaki učesnik je kreirao kurs. Demonstracija je bila ponuđena od strane moderatora. Od učesnika se očekivalo da ponesu svoje materijale koje će uključiti u kurs, ili da obaveste UB da pripremi materijal za njih. Moderator: Univerzitet u Banja Luci.

Creating account and meta data entry on portal was demonstrated on BMP (BAEKTEL Metadata Portal) workshop. Moderator: University of Tuzla.

Na BMP (BAEKTEL Metadata Portal) radionici je predstavljeno kreiranje naloga i unos meta podataka na portal. Moderator: Univerzitet u Tuzli.



2.3 Training and Dissemination Meeting, Niš, November 18 – 19, 2014

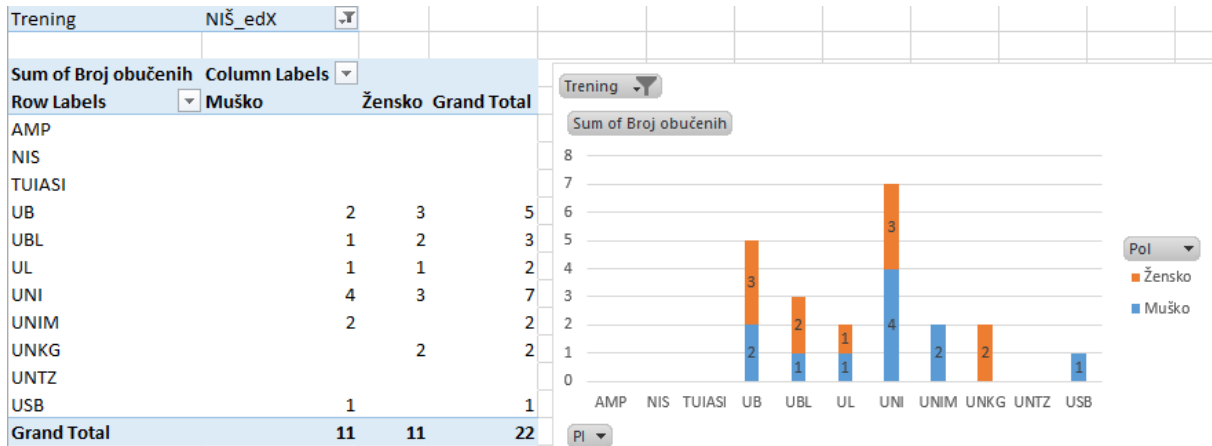


All participant created their courses on BAEKTEL workshop that was held at the meeting in Nis.

First, the participants who did not have their accounts to access EdX studio service went through the process of registration. For courses they used the materials that they have prepared in advance. It was expected that course contains (besides text), questions, link to some web page, video clip and a picture. Given that video material can be added on course only by using some site with video service, process of adding video clips on YouTube service was briefly explained. Workshop was ended with questions of participants.

Na sastanku u Nišu je održana BAEKTEL radionica na kojoj su svi učesnici kreirali svoje kurseve.

U prvom delu radionice učesnici koji nisu imali svoje naloge za pristup EdX studio servisu su prošli kroz proces registracije. Za kurseve su koristili materijal koji su sami unapred pripremili. Od svakog je očekivano da kurs pored teksta sadrži pitanje, link ka nekoj web stranici, video snimak i neku sliku. Obzirom na to da se video materijal na kurs može dodavati samo korišćenjem nekog sajta sa video servisom ukratko je objašnjen i proces dodavanja video snimaka na YouTube servis. Radionica je završena pitanjima učesnika.



Training statistic

2.4 Workshop to facilitate adoption of common regulations for publishing OER content, especially within individual universities in WB, March 12-13, 2015



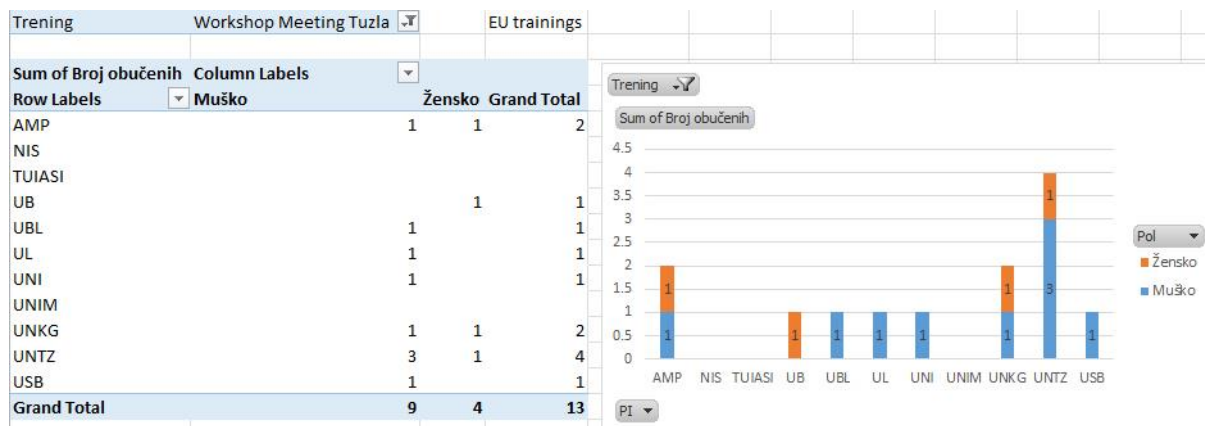
At the workshop in Tuzla, a moderator from UBL presented basic procedures and guidelines for creating and publishing OER. All participants thoroughly went through every step in the process of creating OER: creating new educational content, finding and combining existing OER, copyright regulation and review of newly created OER, applying the appropriate CC license, and finally, publishing the content on the internet and indexing it at the BMP (BAEKTEL Metadata Portal). At the same time, a comparison was drawn to the existing practices at world leading universities involved in publishing free educational content online.

Na radionici u Tuzli moderator UBL izložio je osnovne procedure i smernice za kreiranje i objavljivanje OER-a. Učesnici su zajedno detaljno prošli kroz svaki korak u procesu objavljivanja OER-a: kreiranje novih obrazovnih sadržaja, pronalaženje i kombinovanje već postojećih OER-a, regulisanje autorskih prava i recenzija novonastalih sadržaja, primenjivanje odgovarajuće CC licence, te konačno, njihovo postavljanje na internet uz obavezno indeksiranje na BMP-u (BAEKTEL Metadata Portal). Pri tome je povučena paralela sa trenutnim praksama na vodećim svetskim

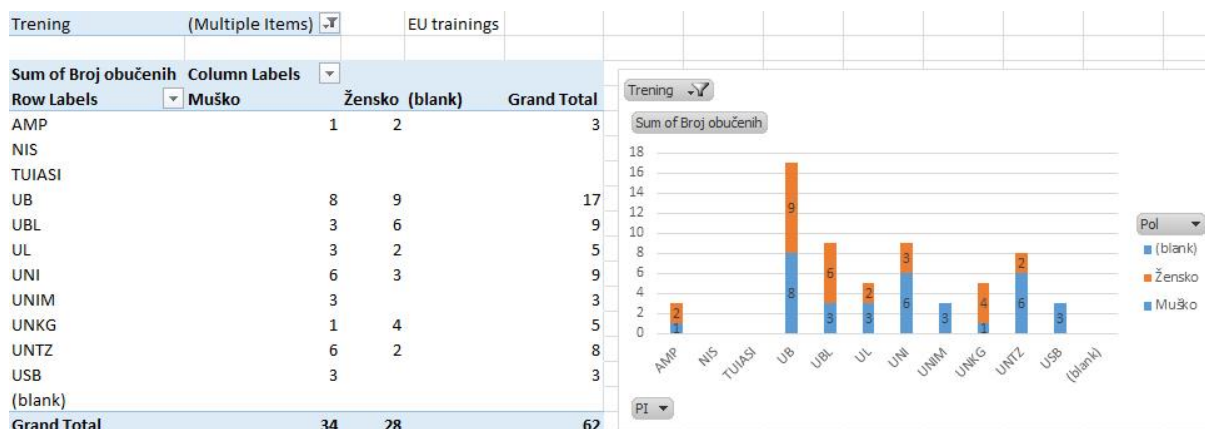
Afterwards, all participants were able to offer suggestions for improving the procedures and guidelines.

univerzitetima koji se bave objavljivanjem besplatnih obrazovnih sadržaja na internetu.

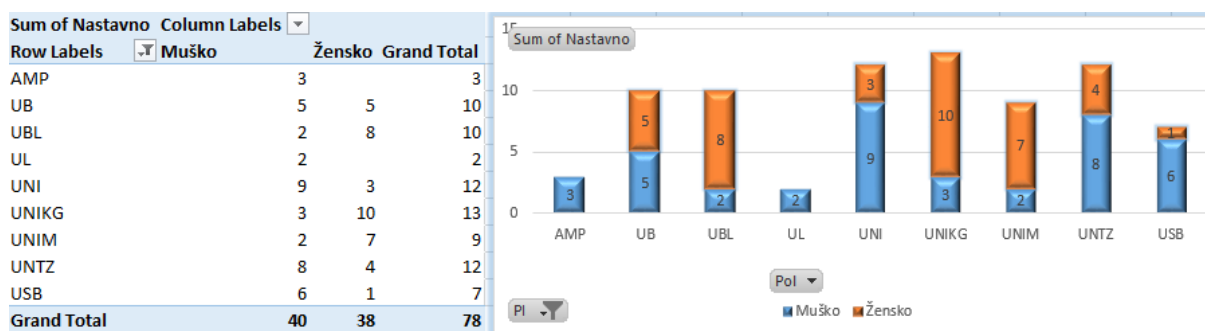
Nakon toga je svako od učesnika mogao da izloži predloge za unapređenja procedura i smernica.



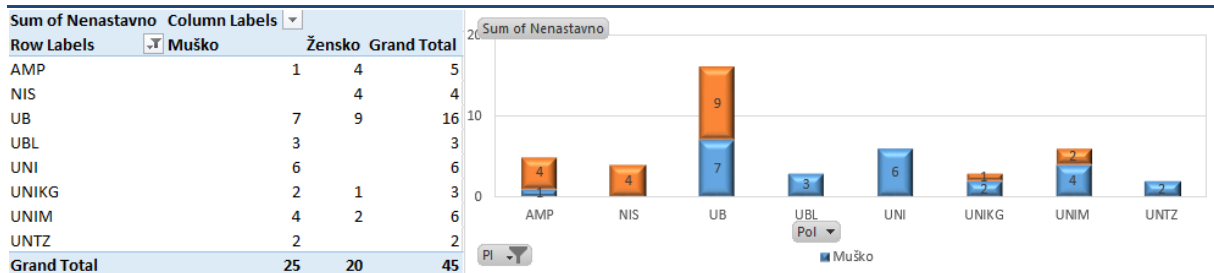
Training statistic



WB training statistic



Teaching statistic



Non-teaching statistic

3 Open course on edX.baektel.eu

On edX portal that is physically located in UB are seven courses that are available to everyone. There are no restrictions to access a course. It is only necessary that the user registers and he can apply to the course. edX portal is located at edX.baektel.eu.

The first course titled "Meet edX" was created by UB. The course content is designed for those who want to learn how to create courses on edX portal. In addition to text lessons, the course also has a video, showing the creation of courses.

The second course was created by UBL. The title of the course is "Instructions for creating video lessons and tutorials." The course enables students to learn how they can capture their screen along with speech and to make that a video lesson.

The third course named „ArcGIS: Drill holes and 3D visualization” was created by UB. The course is designed for students of Faculty of Mining and Geology. Participants will be able at the end of the course to create a model of the ore body on the basis of data from exploration wells.

Na edX portalu koji se fizički nalazi na UB je postavljeno sedam kurseva koji su dostupni svima. Ne postoje ograničenja za pristup kursu. Potrebno je samo da se korisnik registruje i može se prijaviti na kurs. edX portal se nalazi na adresi edX.baektel.eu.

Prvi kurs sa nazivom “Upoznajmo edX” je kreirao UB. Sadržaj kursa je namenjen svima koji žele da nauče kako se kreiraju kursevi na edX portalu. Pored tekstualnih lekcija, kurs poseduje i video zapis, sa prikazom kreiranja kurseva.

Drugi kurs je kreirao UBL. Naziv kursa je “Uputstvo za kreiranje video lekcija i tutorijala”. Kurs omogućava polaznicima da nauče kako mogu da snime svoj ekran zajedno sa govorom i da od toga naprave video lekciju.

Treći kurs pod nazivom „ArcGIS: Istražne bušotine i 3D vizualizacija” kreirao je UB. Kurs je namenjen studentima Rudarsko-geološkog fakulteta. Polaznici će na kraju kursa biti osposobljeni da kreiraju model rudnog tela na osnovu podataka iz istražnih bušotina.

The fourth course was created by AMP. Course title is „Geostatistical estimation of mining ore reserves“. The course is intended for students and engineers of mining and geology, but it can be used by all interested in geo-modeling and geostatistics.

The fifth course entitled „Library service“ was created by UB. The aim of the course is to facilitate participants how to navigate through the Library services. Participants will be able at the end of the course to independently research databases and use tools for formatting a scientific-research paper.

The sixth course was created by UB. Course title is „A database of technical information“. The course includes physical models of a database and technical information.

The seventh course was created by UB for the needs of the Geological Institute of Serbia. Name of the course is „The preparation of data and working in GeolISS“. The course is intended to train the staff of the Geological Institute for data preparation and working in the Geological Information System of Serbia.

Četvrti kurs kreirao je AMP. Naziv kursa je „Geostatistička procjena eksploatacionih rudnih rezervi“. Kurs je namenjen studentima i inženjerima rudarstva i geologije, ali ga mogu koristiti svi zainteresovani za geomodeliranje i geostatistiku.

Peti kurs pod nazivom „Bibliotečki servis“ kreirao je UB. Cilj kursa je da polaznicima olakša snalaženje kroz bibliotečke servise. Polaznici će na kraju kursa biti osposobljeni za samostalno pretraživanje baza podataka i korišćenje alata za formatiranje naučno-istraživačkih radova.

Šesti kurs kreirao je UB. Naziv kursa je „Baza tehničkih podataka“. Kurs obuhvata fizičke modele baze podataka i tehničke podatke.

Sedmi kurs kreirao je UB za potrebe Geološkog zavoda Srbije. Naziv kursa je „Priprema podataka i rad u GeolISS-u“. Kurs je namenjen za obučavanje kadrova Geološkog zavoda za pripremu podataka i rad u Geološkom informacionom sistemu Srbije.

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