Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences

WP2 - Upgrading educational infrastructure at the PC HEIs

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Co-funded by the

Erasmus+ Programme

of the European Union

TeComp

WP2-Upgrading educational infrastructure at the PC HEIs

Lead Organisation – P4 University of Kragujeva

Tasks

- 2.1 Forming technology-enhanced learning spaces
- •2.2 Preparing material for PPM training courses
- •2.3 Creating material for providing language support for teaching staff
- 2.4 Preparing guidelines for the technological enhancement of teaching and learning

Period of realisation: 15-01-2019 - 20-12-2021





- Provisory equipment specification given in the project application as the need of the PC universities, was revised by TeComp team members and discuss on kick-off meeting (January 2019).
- •This work started simultaneously with comparative analysis and identification of needs in WP1.
- •The final decision about the purchase of equipment was made at the partners meeting in Oviedo (March 2019).

 The equipment and other materials which have been made possible through tendering with TeComp project funds enabled the project team members to successfully work towards the project objectives.





 Separate tender procedures for the Serbian (March – July 2019 and November – December 2019) and Albanian partner institutions (January – April 2020) have been carried out.



Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences

Број: 6/00-58-067/19-061 Р.б. набавке 3/2019 Датум: 22.07.2019. године

На основу члана 108. Закона о јавним набавкама ("Службени гласник РС", број 124/12, 14/15 и 68/15) у складу са чланом 7 став 2. Тачка 2. Подтачка а) Закона о јавним набавкама, мишљења Управе за јавне набавке број 011-00-68/10 од 8.11.2010. године, и на основу Упутства за спровођење набавке опреме у оквиру Темпус и Ерасмус мундус пројеката који је Универзитету доставила Национална Темпус канцеларија у Београду и на основу Извештаја Комисије о стручној оцени понуда број 6/00-58-067/19-059 од 22.7.2019. године, ректор Универзитета у Нишу доноси следећу

одлуку

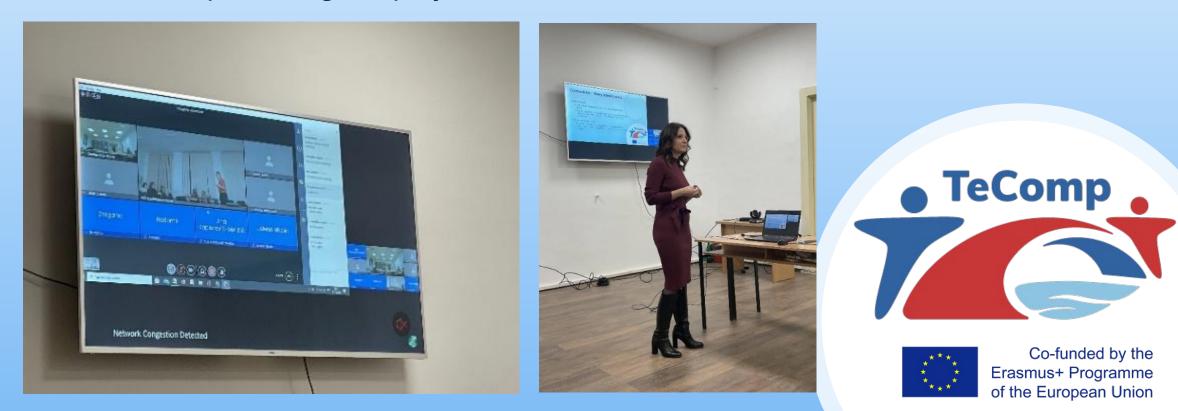
о додели уговора у отвореном поступку за обједињену набавку рачунарске опреме за потребе Универзитета у Нишу, Универзитета у Београду, Универзитета у Новом Саду и Универзитета у Крагујевцу партнера на Ерасмус + пројекту бр. 598434-EPP-1-2018-1-RS-EPPKA2-CBHE-JP "Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences" (TECOMP)







- Each of partners from Serbia purchased LifeSize video conference (4 item)
- Universities organized installation of video conference rooms and Lifesize accounts were registered. These VCR was use for organising on-line meetings, collaborations, and workshops, during the project activities.



- 82 desktop computers (+ monitor) [23-UNI, 1-UB, 21-UNS, 35-UNIKG, 2-AL]
- 16 laptops [3-UNI, 1-UB, 4-UNS, 8-AL]
- 12 tablets [3-UB, 1-UNS, 8-AL]
- 5 computer science laboratories were formed [1-UNI, 1-UNS, 2-UNIKG, 1-AL]







- 18 video projectors [2-UNI, 6-UB, 4-UNS, 2-UNIKG, 4-AL]
- 13 classrooms are modernized [2-UNI, 5-UB, 4-UNS, 1-UNIKG, 1-AL] and 5 projectors are removable.



- 25 document cameras [8-UNI, 12-UB, 2-UNIKG, 3-AL]
- 11 laboratories are modernised [4-UNI, 2-UB, 2-UNIKG, 3-AL].



- Other equipment for modernisation of classrooms and laboratories at the PC HEIs have been purchased and installed.
- Technology-enhanced learning spaces enabled the use of innovative teaching and learning methodologies during and after the project life and was very important and helpful during COVID pandemic conditions.











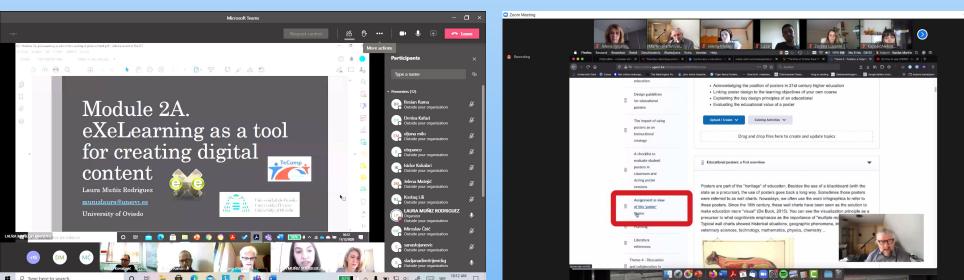
Title	Universities equipped with technology-enhanced learning spaces	
Туре	 □ Teaching material □ Learning □ Report □ Training □ Material □ Service/Product 	
Achieved goals	For Serbian and Albanian universities appropriate equipment for educational purposes was purchased and installed. This resulted with upgraded technical infrastructure and laboratory equipment, and enabled technology-enhanced learning spaces.	TeComp <p< th=""></p<>

2.2 Preparing material for PPM training courses 2.4 Preparing guidelines for the technological enhancement of teaching and learning

- Thinking and collecting ideas and drafts for training and training materials stars in the first year of the project initiated with findings in reports of WP1 and experiences collected during visits of partners in EU in year 2019.
- UNIKG as a packet leader worked on plans of activities and first drafts in 2019.



 Because of COVID pandemic in year 2020 all planed visits to the partners from EU were postponed. Instead of that, and after the eligibility period of the project extended by 12 months, at the end of year 2020, partners from UNIOVI, UMB and UGR conducted webinars in December 2020. Also, during the spring 2021 UGENT conducted online 12-week (45 hours) course the professional development course "Educational Interaction and Communication in Higher Education".







- At online CMT held on 22nd March Editorial board for training material was formed:
 - Zorana Lužanin (UNS) presedent,
 - Miroslav Ćirić (UNI),
 - Andrijana Zekić (UB),
 - Siniša Đurašević (UB),
 - Slađana Dimitrijević (UNIKG).
- The Editorial board is entrusted with the management of the process of collecting and reviewing teaching materials, as well as the selection of materials for printing and the design of volumes.



Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences

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Naziv materijala:

Ime recenzenta:

Ocena prema kriterijumima

Molimo upišite ocenu: 5 - odlično / 4 - dobro / 3 - prosečno / 2 – ispod proseka / 1 – slabo

Kriterijum	ocena
Adekvatnost naslova	
Jasnoća pisanja	
Čitljivost	
Ispravnost i prikladnost strukture	
Popularnost teme	
Doprinost razvoju nastavničkih kompetencija	
Primenljivost sadržaja	
Zanimljivost sadržaja	
Materijal sadrži značajan broj korisnih primera.	

Pozitivne strane materijala.



Da li materijal predstavlja dobru i jasnu osnovu za obuku i sticanje nastavničkih kompetencija?

е е

 Draft versions of programs and learning material, each of them in Serbian and in English, were collected till LCM in Kragujevac in June 2021. Editorial board defined reviewing process and plan dinamic for it.







- During the summer 2021 reviewing process was ended, matherials were organized in two booklets and proofreading (in Serbian) were finished.
- Final versions of matherials were acepted by Editorial board on online meeting held on 25th August.
- One booklet is devoted to digital competences and the other to didactic and pedagogical competences.
- At the end of year 2021 the matherials were published in Serbian and English.





2.2 Preparing material for PPM training courses - Deliverables

Volume PPM – STRENGTHENING TEACHERS COMPETENCES

- 9 themes
- 9 authors from 2 universities
- 193 pages



2.2 Preparing material for PPM training courses - Deliverables

Volume PPM – STRENGTHENING TEACHERS CPMPETENCES

- During the spring 2022 partners from Albania, translated it in Albanian.
- 7 staff members from Eqrem Çabej University Gjirokastër were involved in translating the materials.







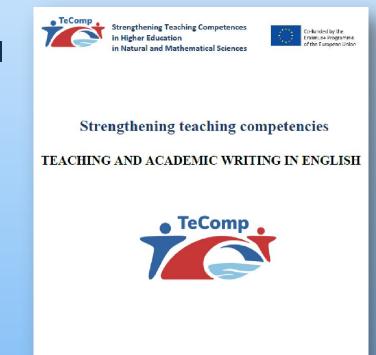
2.2 Preparing material for PPM training courses - resume

Title	Material for PPM training courses	
Туре	 ☑ Teaching material ☑ Learning ☑ Report ☑ Material ☑ Service/Product 	
Achieved goals	Printed and electronic materials for psychological, pedagogical and methodological (PPM) training courses were preparied (in Serbian, English and Albanian). They were used for the trainings organized within WP3.	• TeComp
Conclusio n	Aims are completely achieved.	Co-funded by the Erasmus+ Programme of the European Union

2.3 Creating material for providing language support for teaching staff

The material that has already been developed by the project FUSE (TEMPUS project, coordinator UNI) during the 2021 was adapted to the specific needs of teaching and academic writing in English in the field of natural and mathematical sciences. It was published at the end of 2021.

- 6 themes
- 3 authors from UNI
- 60 pages











2.3 Creating material for providing language support for teaching staff - resume

Title	Creating material for providing language support for teaching staff	
Туре	 ☑ Teaching material ☑ Learning ☑ Report ☑ Service/Product ☑ Material 	
Achieved goals	Printed and electronic material for providing language support for teaching staff was preparied specially taking in to account the specific needs of teaching and academic writing in English in the field of natural and mathematical sciences. They were used for the trainings organized within WP3, activity 3.4.	• TeComp • TeComp • Co-funded by the
Conclusion	Aims are completely achieved.	<pre></pre>

2.4 Preparing guidelines for the technological enhancement of teaching and learning - Deliverables

Volume IT – DIGITAL COMPETENCES

- 7 themes
- 10 authors from 4 universities (UNI, UB, UNS, UNIKG)
- 146 pages









2.4 Preparing guidelines for the technological enhancement of teaching and learning - Deliverables

Volume PPM – STRENGTHENING TEACHERS CPMPETENCES

- During the spring 2022 partners from Albania, translated it in Albanian.
- 4 staff members from Fan S. Noli University Korce were involved in translating the materials.



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2.4 Preparing guidelines for the technological enhancement of teaching and learning - resume

Title	Preparing guidelines for the technological enhancement of teaching and learning	
Туре	 ☑ Teaching material ☑ Event ☑ Report ☑ Training ☑ Service/Product 	TeComp
Achieved goals	Guidelines and instructions for wider integration of ICT in teaching and learning were given in the booklet for digital teacher competences. They were used for the trainings organized within WP3.	Co-funded by the Erasmus+ Programme
Conclusio		of the European Union

University of Kragujevac

Thank you all for good cooperation during project activities!

Final Conference, Belgrade, October 9-11, 2022



