



**TeComp**  
Strengthening Teaching Competences  
in Higher Education  
in Natural and Mathematical Sciences

Co-funded by the  
Erasmus+ Programme  
of the European Union



**REPORT ON THE ACTIVITY 2.2**  
**Material for PPM training courses**  
**OF THE WORK PACKAGE 2**  
**Upgrading educational infrastructure at the**  
**PC HEIs**



<b>Project acronym:</b>	<b>TeComp</b>
<b>Project full title:</b>	<b>Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences</b>
<b>Project No:</b>	598434-EPP-1-2018-1-RS-EPPKA2-CBHE-JP
<b>Number of grant contracts</b>	2018-2467/001-001
<b>Web address of project</b>	www.tecomp.ni.ac.rs
<b>Funding Scheme:</b>	Erasmus+
<b>Coordinator Institution:</b>	University of Niš
<b>Coordinator:</b>	Prof. dr. Jelena Ignjatović
<b>Project duration:</b>	15.11.2018. – 14.11.2022.
<b>Work package:</b>	<b>WP2 – Upgrading educational infrastructure at the PC HEIs</b>
<b>Lead organization of WP4:</b>	P4 – UNIKG
<b>Version of the document:</b>	v.03
<b>Status:</b>	Final
<b>Dissemination level:</b>	Internal

Aim of Task 2.2 activity was preparation of printed and electronic material for psychological, pedagogical and methodological (PPM) training courses.

Task brainstorming, collecting ideas and drafts for training and training materials started 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.

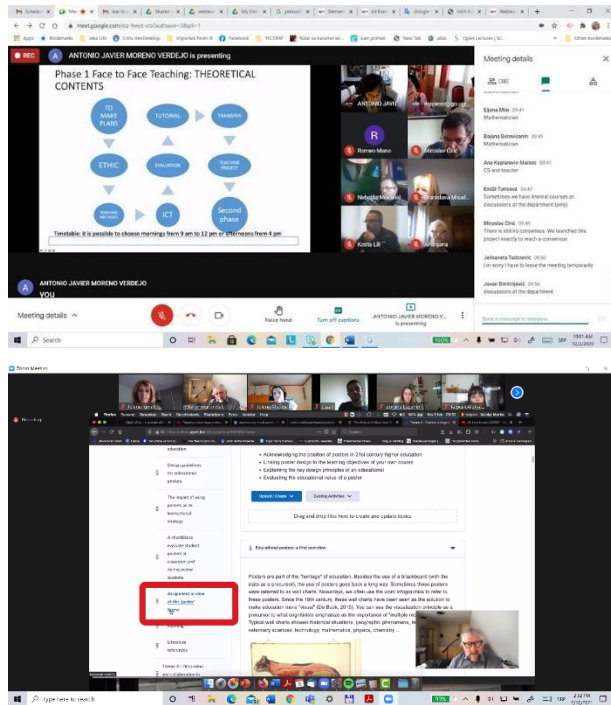


Figures 1-2. Photos of the visit to Matej Bel University in Banská Bystrica, Slovakia



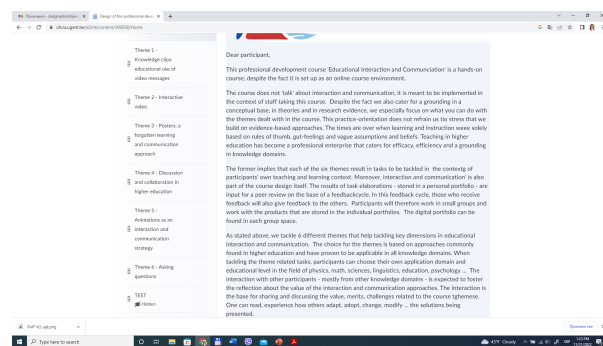
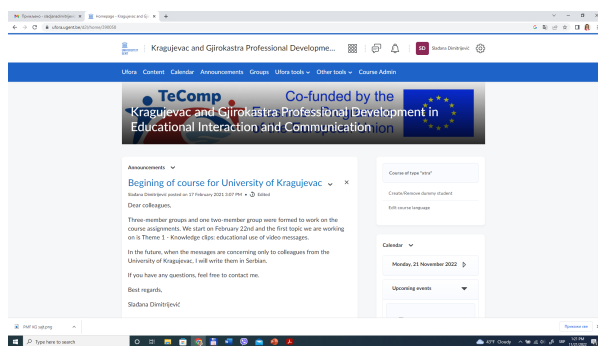
Figures 3-4. Photos of the visit to University of Ostrava, Czech republic

UNIKG as a WP2 leader worked on plans of activities and first drafts of teaching and learning materials in 2019. Because of COVID pandemic in year 2020 all planned visits to the partners from EU were postponed. Instead of that, and after the eligibility period of the project extended by 12 months, partners from UGR and UGENT conducted webinars in December 2020 and in February 2021.



Figures 5-6. Photos of the webinars prepared by University of Granada, Spain, and University of Gent, Belgium

Also, in spring 2021 UGENT conducted online 12-week (45 hours) course the professional development course “Educational Interaction and Communication in Higher Education”.



Figures 7-8. Course “Educational Interaction and Communication in Higher Education” on UFORA platform



After those trainings partners from Serbia begun to work intensively on preparation of the material for PPM training courses, as well as guidelines for the technological enhancement of teaching and learning.

In order to optimize publishing process, at online CMT held on 22nd March 2021, coordinators agreed to form Editorial board for training material related to activity 2.2 and 2.4. Elected members of Editorial board were:



1. Zorana Lužanin (UNS) president,
2. Miroslav Ćirić (UNI),
3. Andrijana Zekić (UB),
4. Siniša Đurašević (UB),
5. Slađana Dimitrijević (UNIKG).

The Editorial board was 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.

Draft versions of teaching and learning materials, each of them in Serbian and in English, were collected till LCM in Kragujevac in June 2021. At that meeting Editorial board defined review process and schedule of activities. During the summer 2021 review process was ended. Reviewers for individual themes were TeComp team members from UB, UNS, UNI, UNIKG. There were involved 3 males and 3 females:

1. Miroslav Ćirić,
2. Siniša Đurasinović,
3. Miroslav Marić,
4. Zorana Lužanin,
5. Slađana Dimitrijević,
6. Andrijana Zekić.

Reviewers for hole volume were 2 female TeComp team members from UGR (María C. Cañadas Santiago) and UO (Irina Perfilieva).


 Strengthening Teaching Competences in  
Higher Education in Natural and  
Mathematical Sciences
 


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	
Doprinos razvoju nastavničkih kompetencija	
Primenljivost sadržaja	
Zanimljivost sadržaja	
Materijal sadrži značajan broj korisnih primera.	

Pozitivne strane materijala.

Negativne strane materijala i preporuke za otklanjanje.

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


 Strengthening Teaching Competences in  
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Title of the material: Strengthening teacher competencies. Didactic and pedagogical competencies

Reviewer name: Maria C. Cañadas Santiago

Evaluation according to the following criteria

Please enter a rating: 5 - excellent / 4 - good / 3 - average / 2 – under average / 1 – poorly

Criteria	evaluation
Adequacy of the titles	5
Writing clarity	5
Readability	5
Correctness and suitability of the structure	5
Topics' popularity	5
Contribution to the development of teacher competencies	5
Content applicability	5
Interest factor of the content	5
Useful examples contained in the material	5

Positive sides of the material.

The document is in line with the project and contribute to its objectives.  
It is very well written and clear.

Negative sides of the material and recommendations for their elimination.

It would be helpful for a teacher to exemplify some ideas with topics of mathematics and sciences.

Does the material provide a good and clear basis for training and improvement of teaching competencies?

Yes, it does.

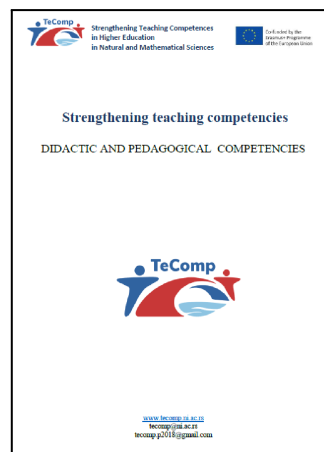
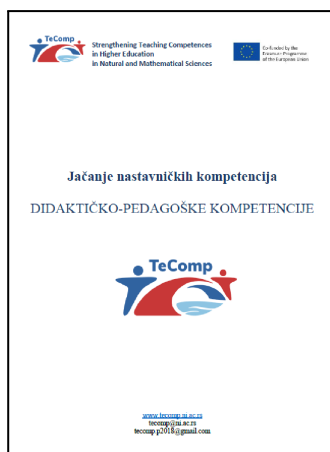
Figures 9-10. Review form and Review of Volume **STRENGTHENING TEACHER COMPETENCES - DIDACTIC AND PEDAGOGICAL COMPETENCES**

Final versions of materials were accepted by Editorial board on online meeting held on 25th August. Materials were organized in two booklets. One booklet is devoted to didactic and pedagogical competences and the other to digital competences. At the end of year 2021 the materials were published in Serbian and English. Volume **STRENGTHENING TEACHER COMPETENCES - DIDACTIC AND PEDAGOGICAL COMPETENCES** have 9 themes (193 pages), written by 9 authors (2 males and 7 females) from 3 universities (UNI, UNS, UB):

1. Miroslav Ćirić: **Modernisation of teaching and learning in the European Higher Education Area,**
2. Zorana Lužanin, Andreja Tepavčević: **Preparation of teaching materials - Example of a textbook,**
3. Andreja Tepavčević, Zorana Lužanin: **Assessment of student knowledge - How to evaluate math students,**
4. Predrag Vujović: **Ask, Don't Tell! Techniques to Promote Interactive Teaching and Learning with Understanding,**

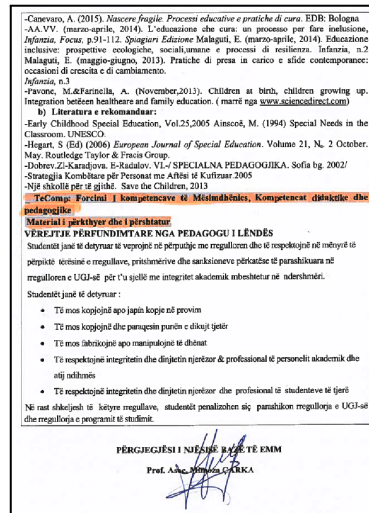


5. Marija Jovanović: **Effective pedagogical communication in higher education - How to communicate in class?**
6. Jelena Petrović: **Constructivist approach to teaching and learning in higher education,**
7. Aleksandra Anđelković: **Effective teaching through the believes and reflexivity of teacher,**
8. Dragana Jovanović: **Teaching methods in university settings - How to teach students how to learn,**
9. Jelisaveta Todorović: **Difficulties and challenges of inclusion in higher education.**



Figures 11-12. Cover pages in Serbian and English version of Volume **STRENGTHENING TEACHER COMPETENCES - DIDACTIC AND PEDAGOGICAL COMPETENCES**

During the spring 2022 partners from Albania, translated it in Albanian. 7 staff members (Irma Gjolleshi, Dhori Terpo, Antuela Sinani, Loreta Mamani, Mimoza Çarka, Romeo Mano, Isidor Kokalari) from Eqrem Çabej University Gjirokastër were involved in translating the materials. Also, ECUG adopted this volume as a part of literature for several courses related to Methodology and Pedagogy.



Figures 13-14. Cover page in Albanian version of Volume **STRENGTHENING TEACHER COMPETENCES - DIDACTIC AND PEDAGOGICAL COMPETENCES** and the innovated literature for course Inclusion in Education

A lot of additional training materials in the form of PowerPoint presentations were created by the instructors during the related activities within WP3.

## SUMMARY FOR TASK 2.2

Title	Universities equipped with technology-enhanced learning spaces	
Type	<input checked="" type="checkbox"/> Teaching material <input checked="" type="checkbox"/> Learning material <input checked="" type="checkbox"/> Training material	<input type="checkbox"/> Event <input type="checkbox"/> Report <input type="checkbox"/> Service/Product
Achieved goals	Printed and electronic materials for psychological, pedagogical and methodological (PPM) training courses were prepared (in Serbian, English and Albanian). They were used for the trainings organized within WP3.	
Conclusion	Aims are completely achieved.	
Sustainability	Prepared material stays available to the teaching staff and presents a good base for their further professional development.	