



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

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



# Website of TeComp project



Being the first task in WP6 - Dissemination, a project website has been created on the very beginning of the Project lifetime and regularly updated by the UNI.

Located at the Web address <http://www.tecomp.ni.ac.rs>, the Project website contains all information about the Project, starting from its goal to the presentation of all documents and activities, including dissemination (Fig. 1-3).

**Figure 1. Project website main page**






**Figure 2. Project website main page - continue**

★  
Stay in touch with modern ways of teaching

## Absolutely Improved Approach to Education


Education needs to be modified to match dramatical changes in all fields of modern society, which were a result of the expansion of contemporary technology. The main objective of TeComp project is to improve the quality of higher education in the field of natural sciences and mathematics, through greater integration of modern pedagogical approaches, methodologies and technologies in teaching and learning

[Read More](#)




### International standard for education

TeComp project strictly follows the initiative and recommendations of the European Union's High-Level Group on the Modernization of Higher Education (HLG)




### Institution improvement trough staff development

To be up to the task, the teaching staff must possess the knowledge and skills to allow them to fully utilise the range of new teaching tools available. Consequently, continual professional development for teaching staff must become the imperative across all higher education institutions.




#### News

Stay updated with news regarding  
TeComp events and progress



#### Get Involved

Learn about events and contribute to  
the progress of education



#### Our team

See all the institutions that are  
involved with TeComp




# Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences

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Figure 3. Project website main page - continue




### Our team

See all the institutions that are involved with TeComp



### Documentation

View documents about technical requirements and supplying



### News

Stay updated with news regarding TeComp events and progress

## Coordinator

**University of Niš**

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## Financial Manager

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## General Project Manager

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## Contact

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tecomp.p2018@gmail.com

## Galleries

### OUR EQUIPMENT

- Niš
- Novi Sad
- Belgrade
- Baracka Bystrica

### WORKSHOPS

- Dubrovnik
- Grenade
- Baracka Bystrica
- Chard

### KAROLIN MEETINGS

- Online meeting
- Visit to Granada
- ICMI Dures
- ICMI Belgrade
- PM Baracka Bystrica
- Workshop Ostrava
- Workshop in Dubrovnik
- Workshop in Brussels
- Niš

EVENTS

COMPARED

Filter by  
FACULTY  
WORKSHOP

Work

Go Home


NOVEMBER 2022

MO	TU	WE	TH	FR	SA	SU
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4


View by  
FACULTY  
WORKSHOP

Work

Go Home




### Kick-off Niš



### Meeting, Baracka Bystrica

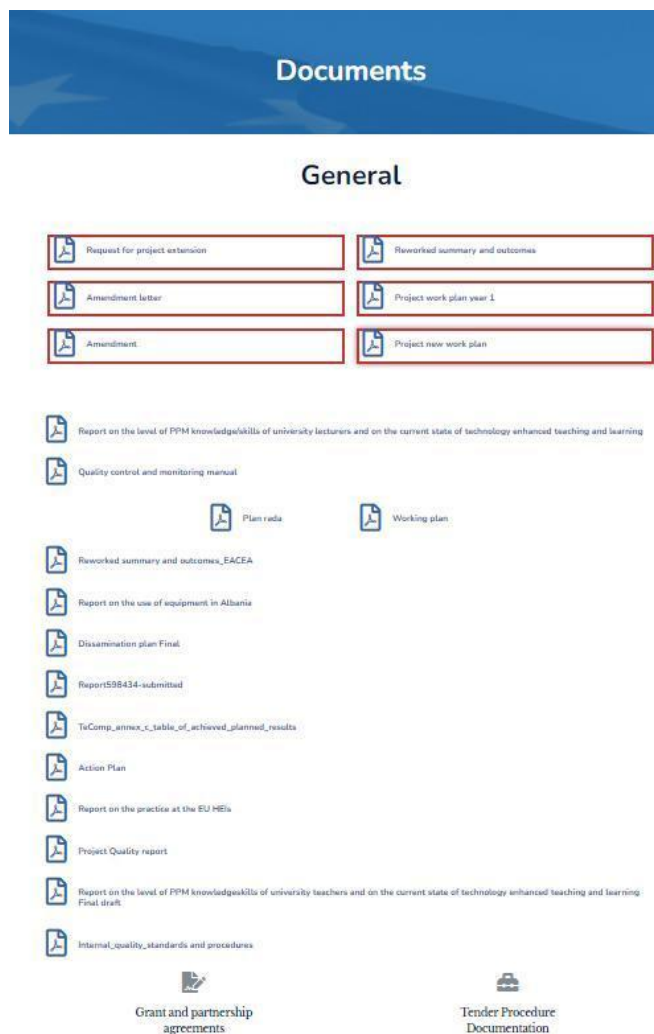
All Events

## Project Partners



As a separate section, key documents of the Project are posted on the website (Fig. 4).

**Figure 4 - Project website Documents section**



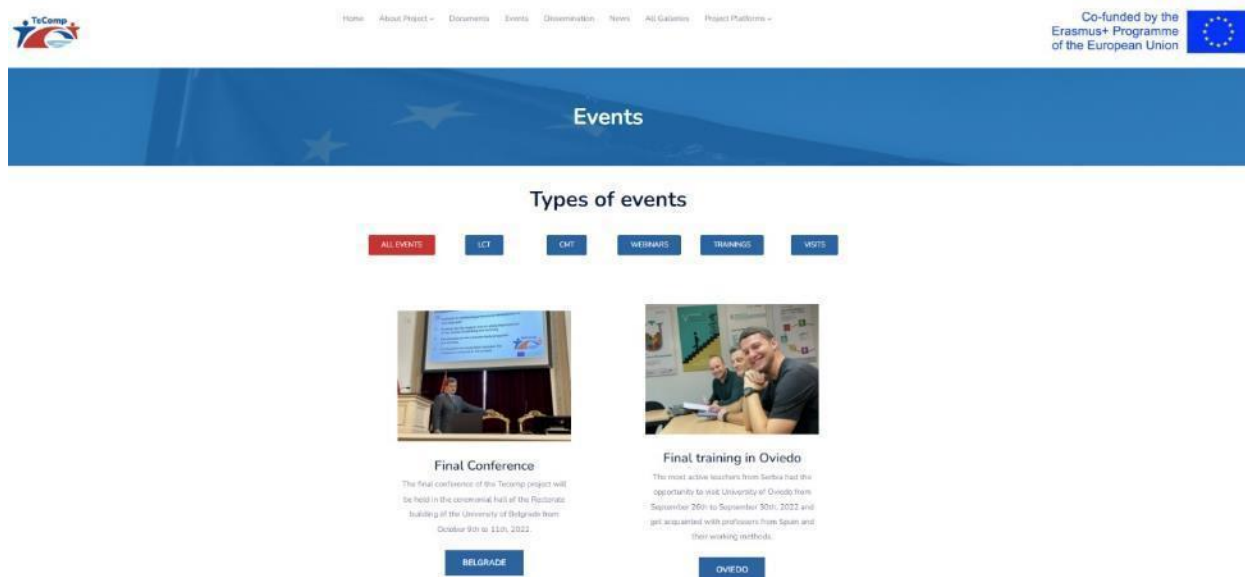
In Documents section we can find one general category and 6 subcategories:

- Strategy
- Rulebook
- Curriculum Development
- Agreements
- EACEA Reports
- Action Plans



Another website Section is Events, where all the events of the project are presented divided by category, i.e., LCT, CMT, Webinars, Trainings and Visits (Fig. 5-)

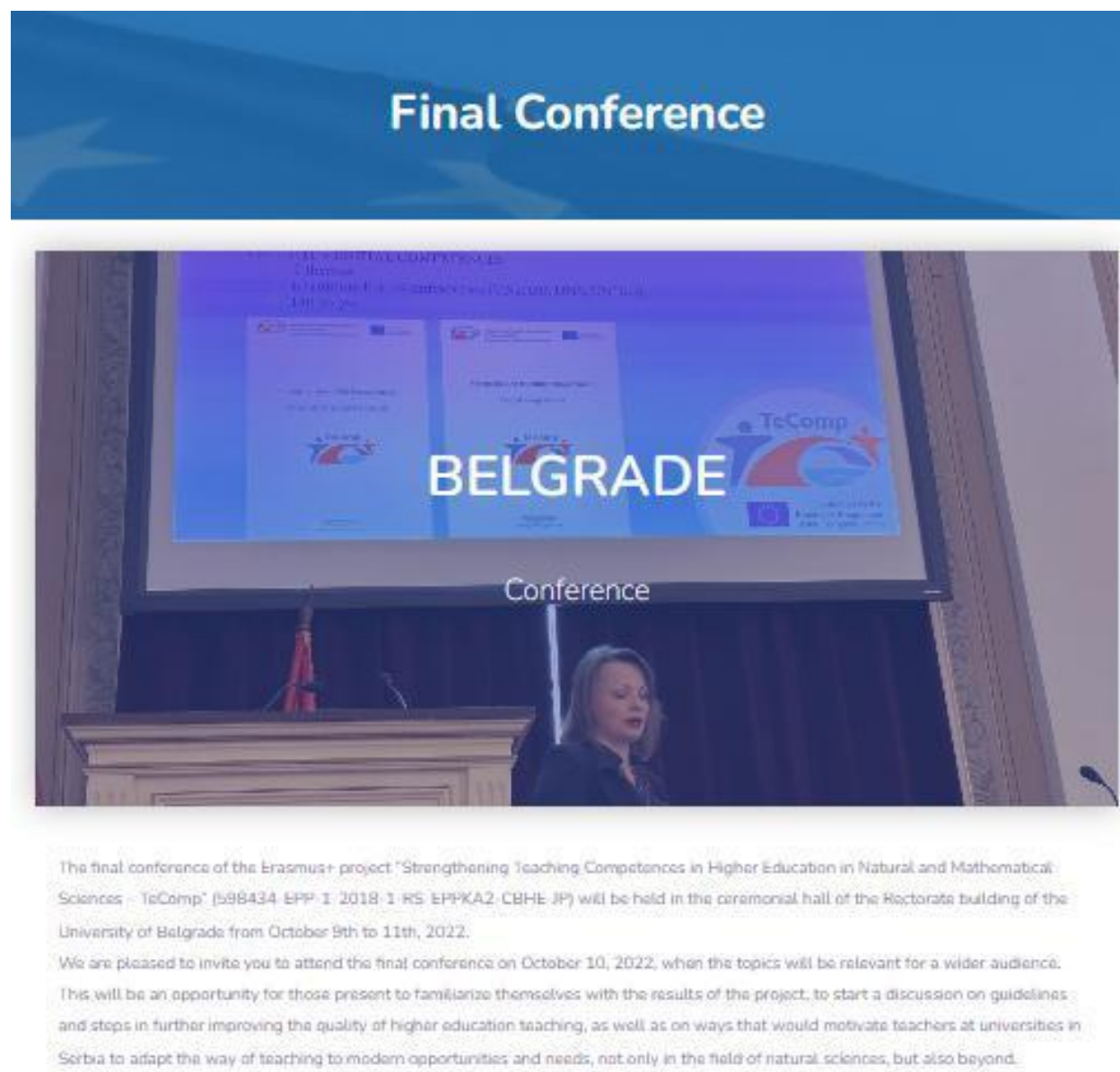
**Figure 5. Project website Events section**



Each event has a link to detailed information, for example, Final conference has Agenda, Gallery, Materials, Attendance list (Fig. 6), while Final training in Oviedo has Attendance list, Report, Agenda and Gallery (Fig. 7).



**Figure 6. Project website Events section, Final conference sub-section**



AGENDA



GALLERY



MATERIALS



ATTENDANCE LIST





**Figure 7. Project website Events section, Final training in Oviedo sub-section**



Professors and assistants who actively participated in numerous previously realized trainings, got the opportunity to, by attending regular classes with students, see how modern methods, tools and applications are practically applied in teachings, which have been improved by the application of modern technologies in teaching.

Several meetings were held in order to agree on all the disputed elements in the completed documentation and to successfully package and complete the documentation that will be sent to Brussels with the final report. At the end, the Rector of the University of Nî was received by the Vice-Rector and the Rector of the University of Oviedo. The conversation was aimed at strengthening and widening future inter-university cooperation.



ATTENDANCE LIST



REPORT




AGENDA



GALLERY




**Figure 8. Project website Events section – continue**



### Workshop in Niš

Workshop on the sustainability of the TeComp project results was held in Niš from September 14th to September 17th 2022.


**NIŠ**



### Training University of Ghent in Niš

The University of Ghent held a training in Niš from September 12 to September 14, 2022.


**NIŠ**



### Additional online CMT meeting, Granada

Minutes of the online Meeting with the contact person from University of Granada on 13th of July, 2022

**ONLINE**



### Online CMT meeting

Online CMT meeting on 4th of July, 2022 via Google Meet

**ONLINE**



### CMT meeting in Gjirokaster

Central Management Team Meeting at the University of Gjirokaster from Jun 13th to Jun 17th, 2022.

**GJIROKASTER**



### Final training in Granada

Training from 16.05.2022. to 20.05.2022, Granada

**GRANADA**



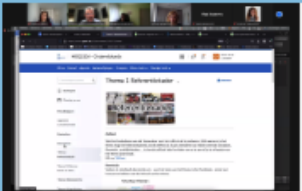


### Bleanded IT training in Kragujevac

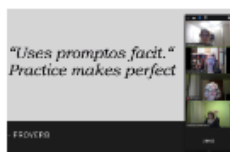
Professional seminar for teachers at the University of Kragujevac, on April 28th, 2022.

**KRAGUIEVAC**



**Figure 9. Project website Events section - continue**

		
<b>Online meeting DB evaluation, Ghent</b>	<b>Training Oviedo and Ostrava in Niš</b>	<b>Training B. Bystrica in Novi Sad</b>
Tools for designing assessment approaches, Learning Management System of Ghent University on 14th of April, 2022.	Training regarding IT technologies from 28th of March to 1st of April 2022.	Training using modern technologies from 20th to 23rd of March 2022.
ONLINE	NIŠ	NOVI SAD



### **TAWÉ Course, Online**

Teaching and academic writing in English (TAWÉ) course from 4th to 23rd of March 2022.

ONLINE



### **CMT meeting**

CMT Meeting on 12th of March, 2022.

ONLINE



### **Training in Novi Sad**

Training for young teachers course from 22nd to 25th of February 2022.

NOVI SAD

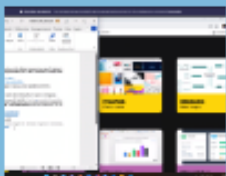

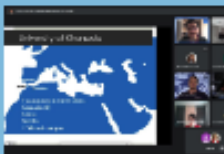


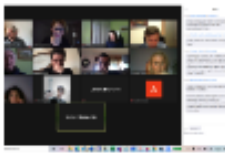

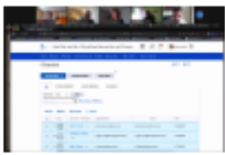


### **PPM training in Niš**

PPM training from December 20th to December 24th, 2021

NIŠ

**Figure 10. Project website Events section - continue**

 <p><b>Online IT training, Oviedo</b></p> <p>Online IT training from December 15th to December 17th, 2021</p> <p><b>ONLINE</b></p>	 <p><b>Online LCT Meeting</b></p> <p>Online local coordinating team Serbia meeting on December 11th, 2021</p> <p><b>ONLINE</b></p>	 <p><b>Online PPM training, Granada</b></p> <p>Online PPM training from December 1st to December 14th, 2021</p> <p><b>ONLINE</b></p>	 <p><b>Training in Korçë</b></p> <p>Training from September 12th to September 18th, 2021</p> <p><b>KORÇË</b></p>
 <p><b>LCT meeting and publishing board meetings in Kragujevac</b></p> <p>LCT meeting and publishing board meetings from June 15th to June 18th, 2021</p> <p><b>KRAGUJEVAC</b></p>	 <p><b>CMT meeting</b></p> <p>CMT meeting on 22nd of March, 2021.</p> <p><b>ONLINE</b></p>	 <p><b>Online training, Ghent</b></p> <p>12-week course, multiple topics were tackled by the staff member during this online task-based course from 15th of February to 17th of May, 2021.</p> <p><b>ONLINE</b></p>	 <p><b>Work meeting, Serbia and Ghent</b></p> <p>Work meeting on February 26th, 2021, online</p> <p><b>ONLINE</b></p>



**Strengthening Teaching Competences  
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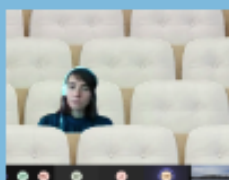
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### Webinar, Ghent

on 4th of February and  
discussions about set up  
of online training-8th,  
9th, 10th of February,  
2021

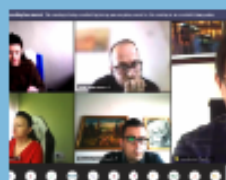
**GHENT**



### Webinar, B. Bystrica

Online teacher  
workshop  
from December 16th to  
December 18th, 2020,  
online

**B.BYSTRICA**



### Webinar, Oviedo

Online teacher  
workshop  
from December 9th to  
December 11th, 2020,  
online

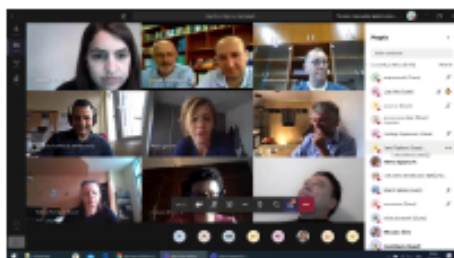
**OVIEDO**



### Webinar, Granada

Online teacher  
workshop  
from December 2nd to  
December 4th, 2020,  
online

**GRANADA**



### Online CMT meeting

Coordinated consortium meeting regarding  
material for training courses and more on June  
3rd, 2020, online

**ONLINE**







### LCT Meeting in Novi Sad

Local coordinating team meeting  
from January 21st to January 22nd, 2020. at the  
University of Novi Sad.

**NOVI SAD**



**Figure 11. Project website Events section - continue**

			
<p><b>CMT Meeting in Granada</b></p>	<p><b>RCM in Durres</b></p>	<p><b>LCT Meeting, Belgrade</b></p>	<p><b>Exchange of experiences in Banska Bystrica</b></p>
<p>Team meeting from November 5th to November 11th, 2019 at the University of Granada.</p>	<p>Regional Cluster Meeting from October 22nd to October 23rd, 2019 in Durres, Albania</p>	<p>Local coordinating team meeting from July 11th to July 13th, 2019 at the University of Belgrade – Faculty of Biology.</p>	<p>Project meeting from May 17th to May 20th, 2019 at the Matej Bel University.</p>
<p><b>GRANADA</b></p>	<p><b>DURRES</b></p>	<p><b>BELGRADE</b></p>	<p><b>B.BYSTRICA</b></p>



**Exchange of  
experiences in  
Ostrava**

Working hours from May 13th to  
May 17th, 2019. at the  
University of Ostrava.

**OSTRAVA**



**Exchange of  
experiences in  
Oviedo**

Working hours from March 25th  
to March 29th, 2019. at the  
University of Oviedo.

**OVIEDO**



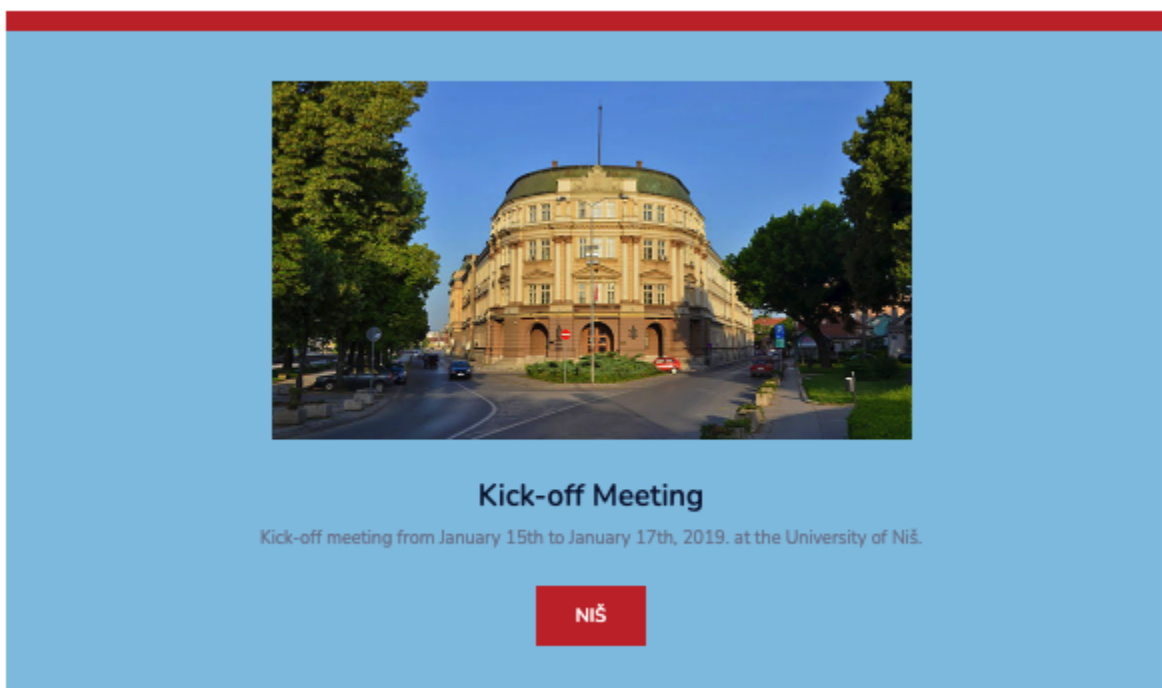
**Grant holders  
meeting**

Working hours from January  
28th to January 30th, 2019. at  
the University of Brussels.

**BRUSSELS**



**Figure 12. Project website Events section - continue**



Dissemination section is enough self-explanatory, and some of its parts will be presented in following text (Fig. 13).



**Figure 13. Project website Dissemination section**

## Dissemination

!

**All of our video materials and presentations are now on our YouTube channel, but due to privacy matters we cannot share it publicly. If you are interested in seeing them, please contact us by email and we will make sure to make them available.**

### Widen the TeComp-powered education



The power of dissemination activities of the project lies in their ambition and well tailored design according to the characteristics and needs of each specific target group (faculties, teaching staff and students).

The project applies dissemination tools such as a website, printed promo materials, popularisation lectures, workshops, dissemination through the media etc. The leader of this work package is UNL, who has been chosen because of the cost effectiveness of purchasing and printing of promotional materials.

The first task, whose leader is project coordinator UNL, is creating and updating the project website. All necessary information about the project, about on going and planned activities, project achievements based on annual joint reports prepared at relevant decision making bodies at partner institutions, etc. will be presented on the project website. It will be regularly updated, so that beneficiaries can always be informed about relevant activities, novelties and project results.

Efficient communication about the objectives of the project provide feedback on the progress of the work being performed in the work packages. Involvement of the actors and target groups are key factors for the project success and spreading of its results. In addition to the website, the dissemination of the project information will be ensured by designing and printing promo materials (leaflets, flyers). All project deliverables and results will be published on the website. Information about the project progress and outcomes will be disseminated through press releases sent out to the media.



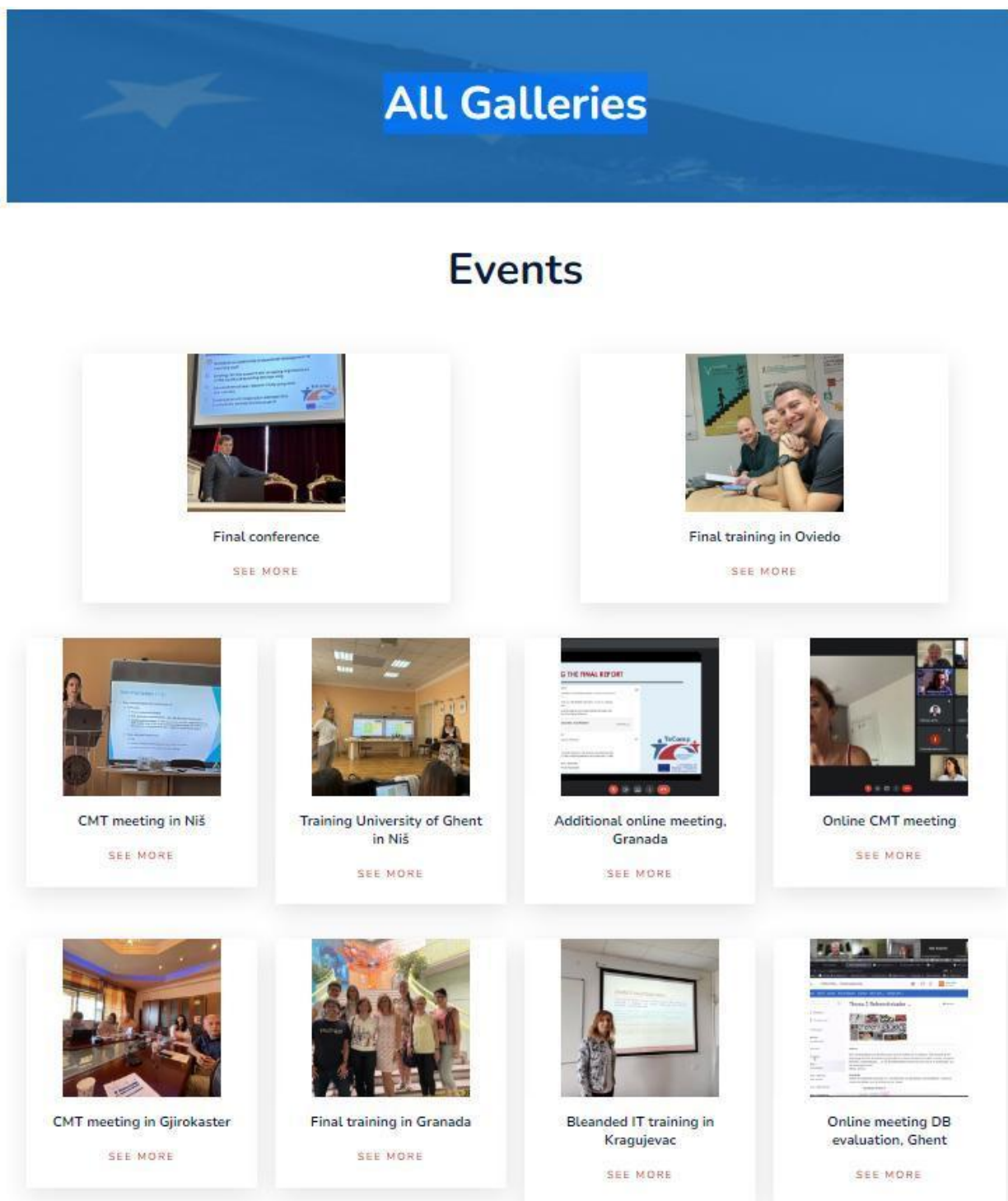


A number of popularization lectures will be organised during the second and the third year of the project realization both at PC and EU countries, where information about the project will be given to various groups of project stakeholders, other HEIs, the academic community and to the general public. An important activity in the project dissemination will be the organisation of a Workshop on innovative teaching and learning methodologies and pedagogical approaches, which will be promoted through the media and through prepared printed and electronic promo material.

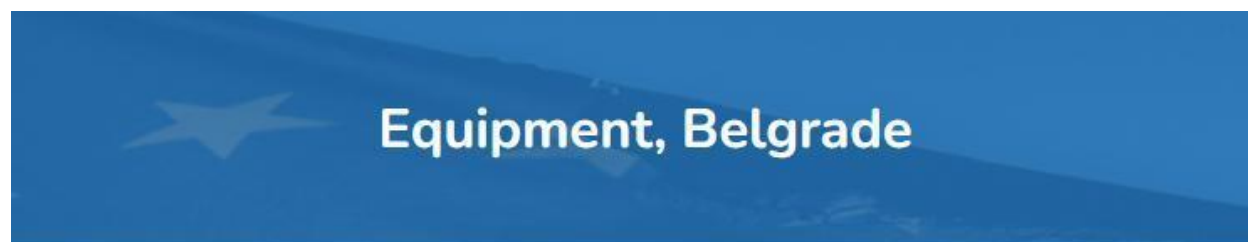


Section All Galleries shares photo material not only of the events, but also equipment purchased (Fig. 14-15)

**Figure 14. Project website All Galleries section**



**Figure 15. Project website All Galleries section - Equipment**



## Faculty of Biology



## Faculty of Mathematics



## Faculty of Physics





Dissemination was a very important aspect of the project.

You can see summary dissemination activities, recap video materials, but also dissemination for each University.

**Figure 16. Dissemination**

**Dissemination**

DISSEMINATION REPORTS DISSEMINATION RECAP

★

**International Conference on  
Physics education in Secondary  
Schools**

International Conference on Physics education in Secondary Schools in Aleksinac is organized by Aleksinac gymnasium with the help of Department of Physics (Faculty of Sciences and Mathematics) and financed by the municipality of Aleksinac. In 2023, it will be its 10th anniversary. The board consists of 20 physics education researchers, which are almost university professors, and from 5 different countries. The conference includes expert lectures, workshops, poster sections, book presentations, panel discussions etc. Besides all that, the conference includes competition for the best experimental work by high school students, where students from many countries participate. The winners receive prizes for their work.

Scientific workpaper Conference program

★

**Digitally Competent Teacher  
Workshop**

Природно-математички факултет,  
Универзитет у Крагујевцу  
Стручна радионица у организацији  
Института за математику и информатику и  
подружнице Друштва математичара Србије,  
Крагујевац.

Digitally Competent Teacher Workshop

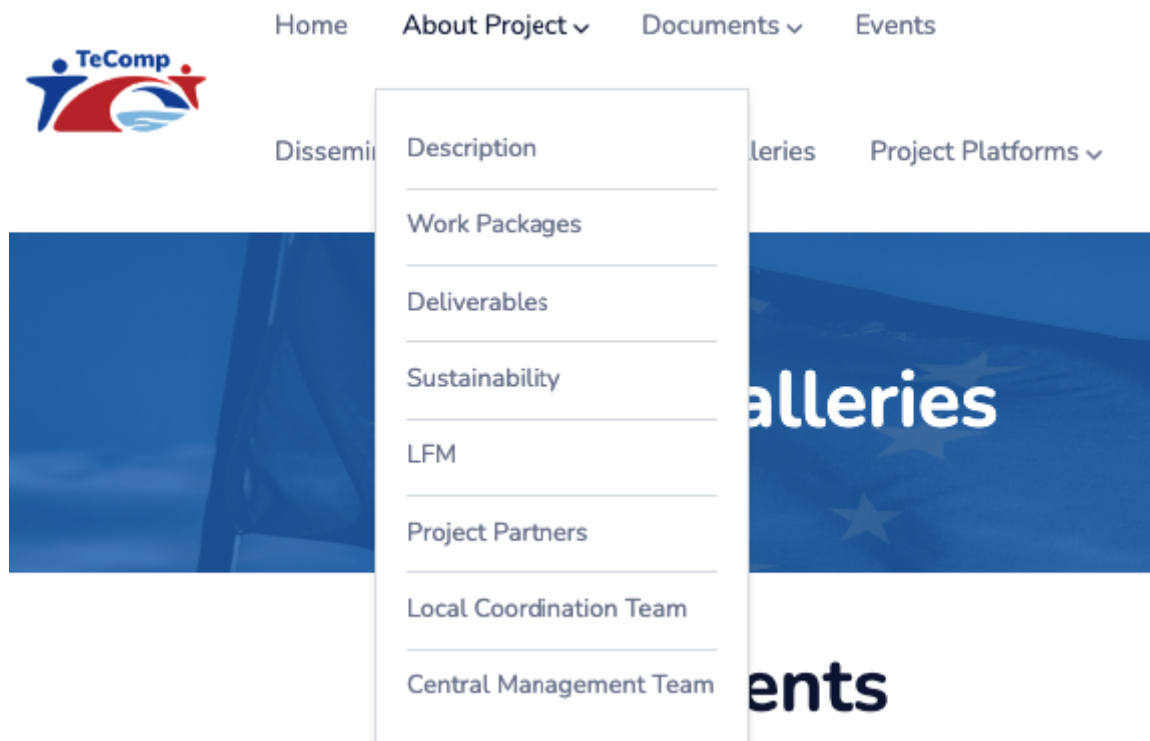


**Figure 17. Dissemination - Recap videos**



It should be mentioned that the About projects option is also available in the menu.

**Figure 18 - About Project**



Description part of the web site contains:

- The TeComp project
- Activities
  - Our plan of action
- Objectives
  - What we aim to accomplish
- Dissemination
  - Widen the TeComp-powered education
- Summary
  - What TeComp is all about





**Figure 19 - Description**

## Description

### The TeComp project

In the past ten years, Serbia and Albania have gone through a comprehensive reform of the higher education system aimed at its harmonization with the Bologna principles and the full integration into the European educational framework. As a reform outcome, in the field of natural and mathematical sciences modern study programs have been created with contents that strictly follow the European and world standards. However, the changes made in the way of studying and modernization of study programs have not sufficiently been accompanied by adequate changes in the way of teaching and learning, and we are faced with the continuation of reforms, which should be accomplished through the modernization of teaching and learning.



According to the report on New modes of learning and teaching in higher education, submitted by the European Union's High-Level Group on the Modernisation of Higher Education to the European Commission and the report on Improving the quality of teaching and learning in Europe's higher education institutions, submitted by the same group, the main task of European governments in the modernization of higher education is to strongly encourage and support a greater integration of new technologies and appropriate pedagogical approaches in conventional education. It was also pointed out that comprehensive strategies for the adoption of new modes of learning and teaching within higher education have to be developed at both the national and institutional level, and the main proponent of changes should be the teaching staff of these institutions. To be up to the task, the teaching staff must possess the knowledge and skills to allow them to fully utilise the range of new teaching tools available. Consequently, continual professional development for teaching staff must become the imperative across all higher education institutions.



**Figure 20 - Work Packages**

Work Packages	
<b>1. Preparation</b>	
1.1. Quantitative analysis of teaching competences of young, newly hired university teachers at the PC HEIs	
1.2. Detailed analysis of the use of modern educational technologies in T&L at the PC HEIs	
1.3. Reviewing experiences in the use of PMT in T&L at the EU HEIs	
1.4. Performing a comparative analysis based on collected data	
1.5. Defining necessary measures and actions for the modernisation of T&L	
<b><u>2. Upgrading educational infrastructure</u></b>	
2.1. Forming technology-enhanced learning spaces	
2.2. Preparing material for PM 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	
<b><u>3. Professional development of teaching staff</u></b>	
3.1. Organising the Workshop on innovative T&L methodologies and pedagogical approaches	
3.2. PM training of teaching staff	
3.3. Training of teaching staff for using new educational technologies	
3.4. Training for teaching and academic writing in English	
3.5. Development of structure and content of courses for students and young teachers	
3.6. Approval/Accreditation of new/modified master study and continuing professional development courses	
3.7. Implementation of approved courses	



Deliverables page is divided in several sections, where are project documents:

- Reports
- Curriculum development
  - Approved/accredited courses
  - New/modernised courses
- Inter-project coaching
- External monitoring
- Strategy of improvement quality of teaching
- Rulebook on CPD
- Memorandum of cooperation
- Training materials

Sustainability page is divided in sections, where are project documents too:

- Curriculum development
- CPD (LLL)
- Teaching/Training material
- Learning platforms
- Future cooperation

**Figure 20 - LFM (Logical Framework Matrix)**



Wider Objective:	Indicator of progress:	How Indicators will be measured:
<ul style="list-style-type: none"><li>• Improving the quality of higher education in the field of natural and mathematical sciences at partner country universities, thereby enhancing their comparability and competitiveness in Europe and beyond.</li></ul>	<ul style="list-style-type: none"><li>• A number of teachers perfected in pedagogy, teaching methodology and using educational technologies in T&amp;L;</li><li>• Enhanced competitiveness of higher education at the PC institutions with modern European practice</li><li>• All the PC universities endorsed the principles of EU strategies for the improvement of the quality of HE</li></ul>	<ul style="list-style-type: none"><li>• Numerous of teachers completed certified training courses of PPMET in T&amp;L; Attendance lists and certificates</li><li>• Project progress reports for the PC HEIs</li><li>• External evaluation reports</li><li>• University internal documents and websites</li><li>• The Strategy for the improvement the quality of T&amp;L adopted</li></ul>

**Figure 21 - Project Partners**

## Project Partners

 <p><b>P1 - University of Niš</b></p> <p>Contact: Jelena Ignjatović</p>	 <p><b>P2 - University of Belgrade</b></p> <p>Contact: Siniša Đurašević</p>	 <p><b>P3 - University of Novi Sad</b></p> <p>Contact: Andreja Tepavčević</p>
 <p><b>P4 - University of Kragujevac</b></p> <p>Contact: Slađana Dimitrijević</p>	 <p><b>P5 - Eqrem Çabej University Gjirokastër</b></p> <p>Contact: Romeo Mano</p>	 <p><b>P6 - Fan S. Noli University Korce</b></p> <p>Contact: Lorenc Ekonomi</p>
 <p><b>P7 - University of Oviedo</b></p> <p>Contact: Luis J. Rodríguez-Muñiz</p>	 <p><b>P8 - Matej Bel University in Banská Bystrica</b></p> <p>Contact: Vladimir Janis</p>	 <p><b>P9 - Ghent University</b></p> <p>Contact: Martin Valcke</p>
 <p><b>P10 - University of Granada</b></p> <p>Contact: María C. Cañadas Santiago</p>	 <p><b>P11 - University of Ostrava</b></p> <p>Contact: Irina Perfilieva</p>	



**Figure 21 - Project Partners**

## Local Coordination Team

### University of Niš



**Jelena Ignjatović**  
Faculty of Science and Mathematics



**Miroslav Čirić**  
Faculty of Sciences and Mathematics, Full  
Professor



**Dragan Antić**  
Rector, University of Niš



**Tatjana Andelković**  
Faculty of Sciences and Mathematics, Full Professor



**Jelena Matejić**  
Faculty of Science and Mathematics, Assistant

### University of Belgrade



**Siniša Durašević**  
Faculty of Biology, Full Professor



**Andrijana Zekić**  
Faculty of Physics, Full Professor



**Miroslav Marić**  
Faculty of Mathematics, Full Professor



**Nebojša Jasnić**  
Faculty of Biology, Associate Professor