

TECOMP QUALITY REPORT

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Introduction: The Quality Report aimed to assure the quality of the project. It implied to deploy a wide range of actions that helped to guarantee that the project had impact on target groups, demonstrating the quality of the project outcomes, management efficiency and that the project had been developed according to the guidelines established in the drawing documents.

Let we talk about our project. The main objective of the project is improvement of the quality of higher education in the field of natural and mathematical sciences at higher education institutions in Serbia and Albania in line with advance EU practices. This wider aim will be achieved through completion of the set of specific objectives concerned with the areas where the measures should be applied:

- to enhance professional competences and skills of teaching staff
- · to upgrade educational infrastructure
- to deliver new/modified courses in psychology, pedagogy, methodology of teaching, and technology

 to strengthen personnel infrastructure through the introduction of continuous professional development in the system of higher education.

The project will particularly focus on the transition from a teaching-oriented to learning-oriented approach to the learning process, a flexible approach and individualization, as well as better communication and interaction between teachers and students. The target areas at Serbian and Albanian universities that need quality enhancement of teaching and learning processes will be identified and a concrete action plan with necessary measures and actions will be made.

The project partners are:

- 1- University of Nis
- 2- University of Belgrade
- 3- University of Novi Sad
- 4- University of Kragujevac
- 5- Eqrem Cabej University
- 6- Fan S. Noli University
- 7- University of Oviedo
- 8- Matey Bel University
- 9- Ghent University
- 10- University of Granada
- 11- University of Ostrava

For this purpose, in the first year of the project, except quantitative analysis of teaching competences of young, newly hired university teachers and detailed analysis of the use of modern educational technologies in T&L in our universities, several meetings were successfully organized and implemented.

We are mentioning them:

- 1-Nis Kick-off Meeting, (CMT Meeting)
- 2-Oviedo Meeting
- 3-Ostrava Meeting
- 4-Banska Bystrica Meeting
- 5-Belgrade Meeting, (LCT Meeting)

Then I am presenting these meetings, giving some brief commentary on them. I welcome all your comments and proposals which, together with the statistical data obtained from the questionnaires with the participants, will constitute the annual quality report.





KICK-OFF MEETING AGENDA

Main Building, Univerzitetski trg 2, Niš

January 15th -17th, 2019

	Tuesday, January 15 th , 2019	
09.30-10.30	Registration	
10.30-11.00	Opening Ceremony (GREAT HALL)	
	Zoran Nikolić, Advisor to the Rector, University of Niš Jelena Ignjatović, General project manager	
11.00-11.45	Jelena Ignjatović, General project manager, University of Niš TeComp overview: Work packages, activities, project management and action plan	
11.45-12.15	Coffee break	
12.15-12.45	Miroslav Ćirić, Financial manager, University of Niš Financial management	
12.45-13.15	Saša Nikolić, Financial manager, University of Niš Financial reporting	
13.15-14.30	Lunch break	
14.30-15.00	Aleksandra Zarubica, Professor, University of Niš University of Niš, Faculty of Sciences and Mathematics: Organisation, programs and activities	
15:00-15.30	Jelena Petrović, Assistant Professor, University of Niš (<i>TBA</i>)	
15:30-16.00	Ivana Micić, Assistant Professor, University of Niš Zorana Jančić, Assistant Professor, University of Niš New technologies in teaching and learning	
16.00-16.30	Ivan Jocić, IT Specialist, University of Niš Presentation of the project web site and project management application	
19.30	Dinner	

Wednesday, January 16th, 2019	
09.00-9.30	Siniša Đurašević, Project manager, University of Belgrade University of Belgrade (TBA)
9.30-10.00	Andreja Tepavčević, Project manager, University of Novi Sad University of Novi Sad (TBA)
10.00-10.30	Srećko Trifunović, Project manager, University of Kragujevac University of Kragujevac (TBA)
10.30-11.00	University of Gjirokastra University of Gjirokastra (TBA)
11.00-11.30	Coffee break
11.30-12.00	University of Korce University of Korce (TBA)
12.00-12.30	Luis J. Rodríguez-Muñiz, Project manager, University of Oviedo Laura Muñiz-Rodríguez, University of Oviedo Initial and continuous teacher training in the University of Oviedo
12.30-13.00	Vladimir Janis, Project manager, University of Banska Bystrica University of Banska Bystrica (TBA)
13.00-13.30	Martin Valcke, Project manager, Ghent University Ghent University (TBA)
13.30-15.00	Lunch break
15.00-15.30	Antonio Moreno Verdejo, Contact person, University of Granada University of Granada (TBA)
15:30-16.00	Irina Perfiljeva, Project manager, University of Ostrava University of Ostrava (TBA)
16:30-17.00	Coffee break
17.00-18.00	CMT Meeting
19.30	Dinner
	Thursday, January 17 th , 2019
09.30-10.30	Round table (Discussion on activities and conclusions)



The kick-off meeting took place 15-17 January. The work plan followed the Agenda and all the partners participated in the meeting. There was a lot of interest and support from the participants. After the welcoming speech and the presentation of the project by the general manager and financial manager, all partners were presented. Then, it was developed the first CMT meeting. The meeting was constructive and details of the project tasks were set out. I want to emphasize the hospitality of the organizers and the ongoing understanding between the partners.

Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences





Workshop on innovative teaching methodologies for mathematics and sciences in the University of Oviedo

Location (unless contrary indicated): Sala de Grados, 3rd floor, Facultad de Formación del Profesorado y Educación (https://goo.gl/maps/saLva2vne4L2)

Monday 25th March

Worlday 25 Warch	
17:00	Welcome and presentation of the workshop
18:00	Promenade through Oviedo

Tuesday 26th March

9:30	Food control, Citizen Science and Gaming as educational tools alternatives
	to improve transversal competences when teaching Biology (Dr. Yaisel Borrell)
10:45	Coffee break (Cafeteria, Faculty of Geology https://goo.gl/maps/Ur8Ybex2LwN2)
11:15	Active teaching and learning of Mathematics in higher education (Dr. José Ángel
	Huidobro and Dr. María Luisa Serrano)
12:30	Experiences with flipped learning and video vignettes for future mathematics
	teachers (Dr. Luis J. Rodríguez-Muñiz and Dr. Laura Muñiz-Rodríguez)
16:00	Programming quiz as an additional tool for learning Python (Dr. José Ramón Villar
	and Noelia Rico)

Wednesday 27th March

Wednesday 27 Waren	
9:00	Institutional reception by the Rector (Rectorate
	https://goo.gl/maps/nSt2pgMcYAm)
10:30	Coffee break (Cafeteria, Faculty of Geology https://goo.gl/maps/Ur8Ybex2LwN2)
11:00	The Innovation Center of the University of Oviedo (Dr. Aquilina Fueyo)
12:00	The INIE: Institute for Educational Research and Innovation (Dr. Emilio Álvarez
	Arregui)
16:30	A whole group discussion of a geometric task: Instructional Quality Assessment
	(IQA) (Dr. Itzíar García-Honrado)

Thursday 28th March

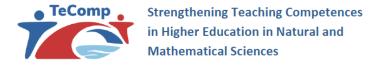
9:45	Teaching and learning resources employed in the chemistry degree to enhance
	student learning and to promote multidisciplinary skills (Dr. José Manuel Costa and
	Dr. José Manuel Fernández-Colinas)
10:45	Coffee break (Cafeteria, Faculty of Geology (https://goo.gl/maps/Ur8Ybex2LwN2)
11:15	Teaching Classical Mechanics with Smartphones: acceleration and trajectory (Dr.
	María Vélez)
12:30	Moodle workshop for Informatic Tools (Dr. César Alonso and Dr. Irene Díaz)
16:00	Meeting of partners from Serbia and Albania

Friday 29th March

9:00	Summary and conclusions of the workshop



The Oviedo meeting took place 25-29 March. The work plan followed the Agenda and all the partners participated in the meeting. The title of the meeting was "Workshop on innovative teaching methodologies for mathematics and sciences in the University of Oviedo". There was a lot of interest in topics about active teaching and learning of mathematics, experiences with flipped learning and video vignettes, teaching classical mechanics with smart phones, use of informatics tools, the use of fuzzy modeling to estimate the results of the teaching. It was very interesting the work about the teaching and learning resources employed in the chemistry degree to enhance student learning and to promote multidisciplinary skills. I want to emphasize the hospitality of the rector and organizers.





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Workshop on Modern Teaching Inspired by Science

Ostrava, Czech Republic

May 13-17, 2019

Monday, May 13, 2019

Faculty of Science, 30. dubna 22, Room C610

17:00 - 18:00 Arrival and Registration

Tuesday, May 14, 2019

Faculty of Science, 30. dubna 22, Room C610

9:00 – 9:15	Welcome and Opening remarks
9:15 – 9:45	Jiří Močkoř: History and traditions of the University of Ostrava
9:45 – 10:30	Jaroslav Žáček: IRAFM laboratory: Fuzzy modeling in practice
10:30 – 11:00	Coffee break
11:00 – 12:30	Tomáš Drobík: Innovative teaching methodologies in the Faculty of Science

Wednesday, May 15, 2019 Faculty of Science, 30. dubna 22, Room C610

9:00 - 9:30	Zemanova: Genetic Constructivism in Mathematics - Hejny's Method
9:30 – 11:30	Visit to the Faculty of Art: Workshop on software and other techniques in modern painting, (Podlahovova 3, Ostrava – Mariánské Hory)
14:00 - 15:00	CMT Meeting

Thursday, May 16, 2019 Faculty of Social Studies, Českobratrská 16, Room B303

9:00 – 9:30	Martin Dyba: Fuzzy modeling – Signature IRAFM Software products used in teaching and research
9:30 - 10:00	Daniela Einšpíglová: Diploma Thesis on "How to fill up a water reservoir using fuzzy modelling methods"
10:00 – 10:30	Karel Šnajdr: Diploma Thesis on "Using soft computing method for vehicle overtaking"
10:30 – 11:00	Coffee break
11:00 – 11:30	Libor Běhounek: Teaching "Formal set theory" with regard to students' comprehension
11:30 – 12:00	Petr Hurtík: Teaching "Modern computer vision" for mathematicians, informaticians, biologists and artists
12:00 – 12:30	Michal Burda: A PhD project of mobile application for biological species recognition
12:30 – 14:00	Lunch break
14:00 – 14:30	Round table (Free Discussion on a current state of the project)

Friday, May 17, 2019

Faculty of Science, 30. dubna 22, Room C610

9:00 – 10:00 Round table (Discussion on further activities and conclusions)





The Ostrava meeting took place 13-17 May. The work plan followed the Agenda and all the partners participated in the meeting. The title of the meeting was "Workshop on modern teaching inspired by science". There were very interesting innovative teaching methodologies, Hejny's method, fuzzy modeling in practice and some new software. I want to emphasize the hospitality of the organizers.



Strengthening Teaching Competences in Higher Education in Natural and Mathematical Sciences





Agenda of project meeting at Matej Bel University

May 17 - 20, 2019

Banska Bystrica, Slovak Republic

Friday May 17

19:00 - welcome dinner

Saturday May 18

10:00 – 11:00	Vladimir Janis: Educational aspects of mathematics at university level
11:00 – 12:00	Ingrid Turis: Evaluation of teaching at Matej Bel University
12:00 – 12:30	Coffee brake
12:30 – 13:30	Romana Schubertova: New aspects of teaching in biology

Sunday May 19

10:00 - 13:00 – meeting of partners from Serbia and Albania (analyzing the current situation at PC universities)

14:00 – sightseeing of Banska Bystrica

13:00 – 14:00 visit to the Museum of Nature History, Banska Bystrica

15:00 - 18:00 - excursion to educational and research area Jakub

Monday May 20

10:00 - 11:00 - visiting educational laboratories at Matej Bel University

11:10 - 11:30 - library at Matej Bel University

11:40 - 12:00 - methods of teaching evaluations

12:00 - 13:00 - lunch

13:00 – 13:30 Vladimir Janis: Presentation of the results of previous projects on teacher training

13:30 –14:30 Martina Skodova: Preparing students for teaching at university level 19:00 – dinner



The Ostrava meeting took place 17-20 May. The work plan followed the Agenda and all the partners participated in the meeting. I can stress educational aspects of mathematics at university level, evaluation of teaching and I want to emphasize the hospitality of the organizers and very friendly relations between participants.





LOCAL COORDINATING TEAM MEETING AGENDA

University of Belgrade – Faculty of Biology, Studentski trg 16, Belgrade $July~11^{th}~-13^{th}, 2019$

	Thursday, July 11 th , 2019
11.00-11.45	Reviewing a report on the level of PPM knowledge/skills of university newly hired teachers at the PC HIEs
11.45-12.15	Break
12.15-13.00	Reviewing a report on the current state of technology enhanced teaching and learning at the PC HIEs
13.00-15.00	Lunch break
15.00-15.45	Reviewing a report on the practice in T&L at the EU HEIs
15:45-16.00	Break
16:00-16.45	Preparation of a joint report
16.45-17.00	Break
17.00-18.00	Preparation of an action plan for modernisation of T&L at the PC HEIs

Friday, July 12 th , 2019	
10.00-10.45	Review of quality assurance and monitoring activities
10.45-11.15	Break
11.15-12.45	Reviewing internal work quality standards and procedures
12.45-15.00	Lunch break
15.00-15.45	Overview of activities within Work Package 6
15:45-16.00	Break
16:00-16.45	Overview of activities within Work Package 7
16.45-17.00	Break
17.00-18.00	Use of the Project Administration Platform (PAP)

Saturday, July 13 th , 2019		
10.00-11.00	Review of activities for the launch of the Work Package 2	
11.00-11.30	Break	
11.30-12.30	Review of activities on purchase of equipment	
12.30-15.00	Lunch break	
15.00-16.30	Meeting of representatives of Serbian universities – discussion on the purchase of equipment	

The LCT Beograd meeting took place 11-13 July. The work plan followed the Agenda and all the partners participated in the meeting. This was the first MCT meeting. In this meeting was discussed about reviewing some reports about teaching and learning in our universities and preparation of a joint report. Then it was discussed about the quality assurance and monitoring activities and an overview of activities within Work Package 6 and 7. I want to emphasize the hospitality of the organizers and very friendly relations between participants.