

Strengthening Teaching Competences
in Higher Education
in Natural and Mathematical Sciences



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

**After the project closing:
sustainability of the
TeComp project**

Miroslav Ćirić
University of Niš, Serbia

Final Conference, Belgrade, October 9-11, 2022



Achieving sustainability

- **Rulebook on continuing professional development of teaching staff**
- **Strategy for the support and on-going improvement of the quality of teaching and learning**
- **Introduction of new relevant study programs and courses**



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

Rulebook



Rulebook on continuing professional development of teaching staff



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

-
- The existing **Center for Professional Development** of the Faculty of Science provided professional development for third parties (out of the Faculty), but **not for the teaching staff** of the Faculty
 - **Rulebook on the work and organization of the Center** has been amended so that also foresees continuing professional development of our teaching staff
 - The new Rulebook was adopted by the Faculty **Academic Council**
 - The Center will accredit **Courses for CPD of teaching staff**

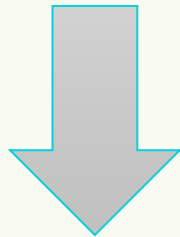


-
- The **Center for the Development of Education in the Field of Natural Sciences, Mathematics and Computer Sciences** was established at the **Faculty Sciences**
 - **Act on the establishment** and **Rulebook on the work of the Center** were adopted by the Faculty Administrative Council
 - The **Rulebook** foresees continuing professional development of the Faculty teaching staff



-
- The working proposal of the **Rulebook of the Lifelong Learning Center** was adopted by the **Quality Assurance Commission** of the **Faculty Sciences**
 - The activity of the Center also includes **CPD** of the teaching staff, as well as support to improvement of the quality of T&L
 - The new **Rulebook on criteria for the selection of university teachers** attaches greater importance to activities aimed at improving quality of teaching and learning

Strategy



**Strategy for the support and
on-going improvement of
the quality of T&L at HEIs**

2023-2028



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

-
- a unique strategy proposal was prepared for all partner institutions
 - submitted for adoption to the **Quality Assurance Commission** and the **Academic Council** of the **Faculty of Sciences**
 - simultaneously submitted for adoption to the **Center for Quality Improvement** and the **Senate** of the **University of Niš**
 - will be an integral part of the **Quality Assurance Strategies** of the Faculty and the University



-
- submitted for adoption to the **Committee for Quality and Self-evaluation** of the **Faculty of Sciences**
 - will be an integral part of the **Quality Assurance Strategy** of the Faculty



-
- Adopted by the **Quality Assurance Commission** of the **Faculty of Sciences**
 - will be an integral part of the **Quality Assurance Strategy** of the Faculty

New study programs and courses

study programs and courses
related to T&L in natural
sciences, mathematics
and computer science



and computer



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



-
- New and innovated bachelor and master degree courses accredited
 - Methodology of teaching informatics
 - Digital media in blended learning
 - Interactive tools for online teaching and testing
 - Methodology of teaching programming
 - Multimedia information systems
 - Methodology of electronic learning

 - Virtual classrooms



-
- Working with talented students
 - Methodology of teaching chemistry
 - Modern methods of learning chemistry
 - Methodology of teaching biology
 - Methodology of teaching geography
 - Methodology of practical teaching of geography
 - Methodological innovations in geography

 - Program packages in teaching mathematics
 - Methodology of teaching mathematics



- Accredited new study program of doctoral studies

Methology of teaching natural sciences (biology, chemistry, physics, geography), mathematics and computer science

at the **Faculty of Sciences**



- New and innovated bachelor and master degree courses accredited
 - Educational software
 - Innovations in teaching of mathematics
 - Experiments in teaching of physics
 - Methodology of scientific research work
 - Selected chapters of physics teaching methodology
 - Application of modern ICT in physics teaching

Continuation of cooperation

existing cooperation
expanded and
new forms of cooperation
introduced

d computer science



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



- New **Memorandum of Cooperation** between University of Niš and University of Oviedo
 - Joint **Erasmus+ mobility projects** for students and staff
 - Joint **research projects**
 - Joint **programs of doctoral studies**
- **Irina Perfilieva** (University of Ostrava) and **Irene Díaz** (University of Oviedo) are engaged in the newly introduced study program
 - Artificial intelligence and machine learning**
 - at the **Faculty of Science, University of Niš**

Cooperation



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



- The long-standing cooperation between **University of Novi Sad**, **University of Oviedo** and **Matej Bel University of Banská Bystrica** was further expanded
- Cooperation of four universities from **Serbia** with two universities from **Albania** – very important for the further promotion of **regional cooperation**
- strengthened **internal cooperation** between universities in Serbia, as well as **internal cooperation** between universities in Albania



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

Thank you for
your attention

