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PROJECT TITLE: Mathematics of the Future: Understanding and Application of Mathematics with the help of Technology—FutureMath

Key Action: Cooperation for innovation and the exchange of good practices

Action Type: Strategic Partnerships for higher education

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Erasmus days FutureMath

Timisoara

UNIVERSITATEA POLITEHNICA TIMISOARA

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The contribution of FutureMath Erasmus+ project on increasing STEAM competences



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Project partners

Sojuz na istrazhuvachi na Makedonija - SIM Skopje, Skopje, Republika Severna Makedonija;

Visokoškolska ustanova, Metropolitan, Beograd, Serbia

Universiteta politehnica, Timisorara, Romania

Univerzitet Goce Delčev, Štip, Republika Severna Makedonija



There are 5 intellectual outputs of project:

- Analysis report on state of art in using technologies to support teaching in Mathematics after Covid-19 crisis
- Development of new STEAM methodology and technology
- FutureMATH video collection
- Piloting lessons and testing
- Analysis and further development



Main Results

Developed Web page

[FUTUREMATH \(uns.ac.rs\)](https://uns.ac.rs/FUTUREMATH)



Main Results Of IO1 Analysis report on state of art in using technologies to support teaching in Mathematics after Covid-19 crisis:

- 1.1 Collection of good practices and current STEAM methods before Covid-19 crisis;
- 1.2 Collection of distance learning practice during the Covid-19 crisis;
- 1.3 Developed of STEAM intervention guidelines based on previous collections;
- 1.4 Developed Web page, [FUTUREMATH \(uns.ac.rs\)](https://uns.ac.rs/futuremath)
- 1.5 Suggested Calculus topics on which the new teaching methodology



Main Results Of IO2 Development on the new teaching methodology and technology :

- 2.1. Proposals for implementing STEAM technologies and methodologies, with EXAMPLE
- 2.2 Guidelines for on line material in the STEAM context



Main Results Of IO3 FutureMATH video collection :

- 3.1 Developed teaching and learning materials for exemplary Calculus courses;
- 3.2 Published online exemplary lessons;
- 3.3 Created exemplary course evaluations;
- 3.4 Exemplary tests.



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LTT in Belgrade Training for Piloting



Main Results Of IO4: Piloting lessons and testing

- 4.1 Implemented Calculus courses enriched with new STEAM topics;
- 4.2 Implemented of course evaluations.



Main Results Of IO5: Analysis and further development

- 5.1 Results of analysis of the impact and effects of pilot courses;
- 5.2 Created framework for integrating STEAM principles for STEM studies;
- 5.3 Published online teaching and learning materials for Calculus courses with STEAM revised topics.



IO2 – project result

2.1 Proposals for implementing STEAM technologies and methodologies ;

2.2 Guidelines for on line material in the STEAM context;

2.3 Updated Web page .



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