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“INNOMATH - Innovative enriching education processes for Mathematically Gifted Students in Europe”

Project Number: 2019-1-DE03-KA201- 059604

Title of Content: **INNOMATH Final Results**

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Agenda

1. The INNOMATH project
2. Learning Plans for topics
3. Modules for teacher training
4. What is a MID-Day

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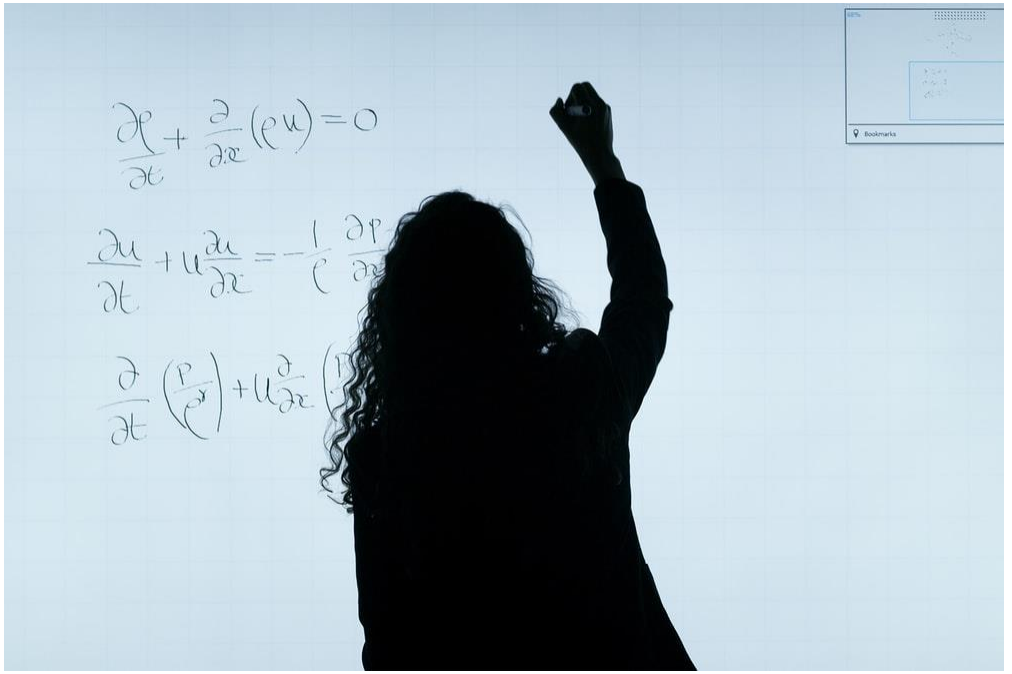
1. The INNOMATH project

- The INNOMATH project developed new methodologies for supporting gifted pupils in mathematics of age 10-18, which can be used inside and outside any school environment.
- The project was funded by the European Commission under ERASMUS+ KA2 in the field of Strategic Partnerships for school education.



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1. The INNOMATH project

- The main target group of the INNOMATH project are the teachers, whom the project aims to support by developing an Electronic Guidebook through which they can be guided in their teaching and support to "gifted" students with a role of facilitators.

- The project produced an innovative set of guidelines and tools for teachers enriching their competences for supporting gifted pupils inside and outside the classroom environment.

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1. The INNOMATH project

The results of INNOMATH are expected to contribute also to the following school education priorities as described in ERASMUS+ Programme Guide:

- Supporting teachers in dealing with diversity in the classroom;
- Supporting teachers in adopting collaborative and innovative practices,
- Supporting schools to tackle disadvantage and to offer quality education, enabling success for all students, from the LOWEST to the HIGHEST end of the academic spectrum

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1. The INNOMATH project

Outputs

- Electronic Guidebook of Methods and Tools for teacher facilitators:
  - Analysis Report on Good Practices and Methods used to support gifted/talented pupils in schools
  - Mathematics meets Industry in School – Knowledge to Innovation through Practice: Guidelines
- INNOMATH Course for teacher facilitators: Supporting Mathematically Gifted Students
  Modules for teacher training and Ready Learning Plans to be used by teaching facilitators in support of gifted/talented students in Mathematics

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2. Learning Plans

The Project has produced Learning plans for advanced mathematics topics in support of talented students
The Learning Plans produced are: *(LINK : https://innomath.eu/material-supporting-mathematically-gifted-students/)*

LP2.Spreadsheet basic programming 7-9
LP2.Spreadsheet basic programming 10-12
LP3. Spherical Geometry
LP5. Linear programming, optimization, simplex
LP5.1.Linear Programing, 2 variables
LP5.2.Linear programming, optimization, spreadsheet
LP6. Compound interest, spreadsheet
LP7. Spreadsheet, probability, combinations
LP8. Digital Geometry Software
LP8.1.Digital Geometry Software
LP9.Spreadsheet geometric programming
LP10. Algorithmics
LP11. Graph theory, matrix

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3. Modules

The Project has produced Modules for advanced mathematics topics in support of talented students

The Modules produced are: (LINK: https://innomath.eu/innomath-training-course-for-teacher-facilitators/)

M1. Access and use to the content of Guidelines – MID Day Model

M2. Inquiry Based Learning

M3. Discovery Based Learning

M4.Problem Solving Methods

M5. Project based learning and project work Methodology

M6. Presentation and Communication Skills

M7. Raising the entrepreneurial mind se in school students though learning activities

M8. Cloud Computing and Cloud Education Leadership

M9. Evolution of Education 3.0 to 4.0, Future schools

M10. Cooperative Learning for teachers and students

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4. What is a MID-Day

MID-Day: An actual Math and Industry Day, when students tackle a problem set up by an industrial partner and analyzed/adapted by the academics/researchers and teachers so the students can work on it and suggest solutions.

Published Guidelines in www.innomath.eu

- Electronic Guidebook of Methods and Tools for teacher facilitators
- INNOMATH Course for teacher facilitators: Supporting Mathematically Gifted Students

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INNOMATH Partners

Volkshochschule Schrobenhausen

IMMANUEL KANT GYMNASIUM

Lyon 1

THE HERITAGE PRIVATE SCHOOL

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