



Tempus

Life-long learning in Slovakia

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511140-TEMPUS-1-2010-1 Project meeting

21.-23.1.2013 Banská Bystrica

- Regulated by law 568/2009

LLL is defined as

“all activities conducted throughout a person’s life aimed at promoting knowledge, skills and abilities”

... and divided into

- school education
- further education at educational institutions

Institutions of further education

- secondary schools, universities, language schools, schools of arts
- private or public bodies devoted to education or activities connected to education

Accreditation

- done by the accreditation committee, an advisory body of the Education Ministry
- issues the recommendation for the accreditation of the study program
- accreditation is necessary after changing over 20% of the program contents

Final examination

- written, oral, practical or combination of these
- public, committee at least 3 persons appointed by the educational institution
- obligatory to pass at least 75% of the program

Problems in LLL for teachers in Slovakia

- provided not only by universities - quality is not guaranteed
- connected with salary increase - limited capacity
- teachers can obtain credit also for LLL courses outside their specialisation

Innovative mathematics education on secondary schools (UKF Nitra)



Module 1 - Modernization of mathematics education

Society development in connection to education development 1/1

GeoGebra 1/3

Classroom of the 21st century 1/0

Creative education 1/2

Teamwork in mathematics 2/0

Module 2 - Guidance to discoveries

Creation of suitable questions 1/0

Problems based on images 1/1

Planning and analysis of a mathematics lesson 2/5

Teamwork in mathematics 2/0

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Module 3 - Solving non-structured problems

- Basic characteristics and classification of problems 1/0
- Comparison of structured and non-structured problems 1/0
- Strategies for non-structured problems 1/1
- Planning and analysis of a mathematics lesson 2/4
- Interdisciplinary problems and mathematics 2/1

Module 4 - Creative teaching

- Observing and visualisation 1/0
- Definition creation, representation, its place in mathematics 1/0
- Finding links in mathematics education 2/0
- Estimation as a tool of understanding 2/0
- Teamwork in mathematics 2/0
- Practical teaching, analysis of the lessons 1/10

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Module 5 - Questions supporting creative teaching

Questions in traditional teaching 2/0

Questions supporting creative teaching 1/1

Observing a lesson 1/1

Planning and analysis of a mathematics lesson 1/5

Problem solving strategies 1/0

Module 6 - Creative teaching and teamwork

Discussion in a lesson, guided discussions 2/0

Observing and analysis of students discussion 2/0

Teamwork in mathematics 2/0

Practical teaching, analysis of the lessons 1/5

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Module 7 - Building knowledge structures

Principles of formative evaluation 1/0

Analysis of students responses in problem solving and in real situations 2/0

Influence of evaluation to learning 1/0

Planning and analysis of a mathematics lesson 1/5

Interdisciplinary problems and mathematics 1/0

Module 8 - Self-evaluation in creative learning

Processes of creative learning 1/0

Planning of self-evaluation strategies 2/0

Verifying evaluation and self-evaluation strategies in educational process 2/5

Differentiated education 1/0

LLL in (Applied) Statistics



Target groups:

- Secondary school teachers
- Scientists in nature and social sciences
- Economists
- ???