

Course title: **The cooperation between mathematics and sciences – from research towards enhanced teaching**
Ljubljana 22nd – 27th August 2010

Program

Sunday 22nd August

Arrival of the Participants for Teacher's Professional Development

All the sessions/meetings will be held in the room "Fizikalni laboratorij" at the first floor of the *Diocesan Classical Gymnasium* at *St. Stanislav's Institution*, Zavod sv. Stanislava, Štula 23, 1210 Ljubljana, Slovenia - EU

Monday 23rd August

Time	Approx.	Session	Theme	Presenter/Moderator
8-12	35 min	Presentation	Welcome, Introduction	Tine Golež
	40 min	Presentation	ScienceMath project presentation: Aims and Results	Simon Zell
	30 min	Discussion	Participants introduce themselves	Tine Golež
	15 min	Coffee (app. at 9:40)		
	120 min	Presentation	Calculus; from physics ... [see Wednesday at 14]	Tine Golež
12-13	Lunch			
13-20	420 min	Excursion (Workshop)	Measurements in real world – field work incorporated into science teaching (tourist) excursion	Gregor Bregar, Tine Golež

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Tuesday 24th August

Time	Approx.	Session	Theme	Presenter/Moderator
8-12	45 min	Presentation	Technology, motivation, teaching	Damjan Kobal
	60 min	Workshop	Hands on simple techno-math ideas	Damjan Kobal
	15 min	Coffee		
	120 min	Workshop-CL	From real to virtual with GeoGebra	Damjan Kobal
12-14	Lunch			
14-16:15	60 min	Presentation	Fermat meets Pythagoras	Simon Zell
	15 min	Coffee		
	60 min	Presentation	Experiments and concept of variable	Simon Zell
16:15	Free			

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Wednesday 25th August

Time	Approx.	Session	Theme	Presenter/Moderator
8-12	60 min	Presentation	Interdisciplinary lessons between mathematics and biology	Simon Zell
	60 min	Presentation	Interdisciplinary lessons between mathematics and biology	Simon Zell
	15 min	Coffee		
	60 min	Presentation	Uncertainty Principle and Fourier transform	Iztok Kukman
	45 min	Presentation and workshop	Advanced physics experiments for A-level students	Gregor Bregar
12-14	Lunch			
14-16:30	150 min	Presentation, Workshop	... towards mathematics	Tine Golež
17-	Visit to the Ljubljana downtown			

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Thursday 26th August

Time	Approx.	Session	Theme	Presenter/Moderator
8-12	105 min	Workshop-CL	Learning GeoGebra	Damjan Kobal
	15 min	Coffee		
	60 min	Workshop-CL	Teaching with GeoGebra	Damjan Kobal
	60 min	Workshop-CL	Teaching with GeoGebra	Damjan Kobal
12-14	Lunch			
14-16:30	45 min	Workshop	Physics experiments prepared for 2nd and 3rd graders lab-work	Gregor Bregar, Iztok Kukman
	15 min	Coffee		
	90 min	Workshop	Physics experiments prepared for 2nd and 3rd graders lab-work	Gregor Bregar, Iztok Kukman
19-	Typical Slovenian dinner			

Friday 27th August

Time	Approx.	Session	Theme	Presenter/Moderator
8-12	50 min	Presentation	Modelling motion: the case of horizontal launch	Tine Golež
	40 min	Presentation	Science and/or common sense	Damjan Kobal
	15 min	Coffee		
	40 min	Presentation	Modelling motion: the case of shooting in water	Tine Golež, Gregor Bregar
	60 min	Discussion	Final discussion + evaluation	All
	35 min	Conclusion and farewell		