

Day	Lectures
1	School opening (conf. hall)
	Break
	Nuclear Data
	Lunch
	Monte-Carlo Methods
	Break
	Monte-Carlo Methods
2	Use of the MCU Code
	Break
	MCU Physical Module
	Lunch
	Geometry Module
	Break
	Practical Tasks
3	Excursion to lab 344, dept. №9, Nano-center, Laser-center, NEVOD
	Lunch
	Practical Tasks
	Break
	Group Project Tasks (MCU part)
4	Fundamentals of computational fluid dynamics. Equations, grids, numerical schemes.
	Break
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	Lunch
	FlowVision – Main Possibilities and Experience of using in Nuclear Industry
	Break
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5	FlowVision Practical Task 1
	Break
	FlowVision Practical Task 2
	Lunch
	FlowVision Practical Task 3
	Break
	Group Project Tasks (FlowVision part)
6	Site seeing
7	Introduction to STAR-CCM+
	Break
	Simulation workflow: step-by-step and supplementary materials
	Lunch
	Simulation workflow: field functions
	Break
	Group Project
8	Fundamentals of computational fluid dynamics. Turbulence, examples
	Break
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	Lunch
	Tutorial: applied CFD problems and their validation
	Break
	Group Project
9	Introduction to the finite element method.
	Break
	The general structure and components of CAE Fidesys and their interaction
	Lunch
	Simulations
	Break
	Group Project
10	Group Project
11	Group Project Presentations
	School closing