S C H E D U L E

Winter School of Nuclear Power Engineering

in the framework of the Strategic partnership program

January, 25 – February, 06 2016

Jan.	Time	Course	Person in charge
25	09:00-10:00	First Meeting. **IMOP, Main Building (MB), room 734**	
	10:00-10:20	Grand opening	1. Vice-rector for International Affairs – Dmitriy Arseniev 2. Deputy vice-rector for research – Vitaly Sergeev 3. Director of the Institute of Energy and Transport systems – Nikolay Zabelin
	10:20-12:30	Introduction to Nuclear Engineering. Physical basis of nuclear energy. Nuclear fuel	Prof. Paramonova (Peter the Great St. Petersburg Polytechnic University)
	12:30-14:30	Technological Foundation for Internalization of WWER Technology **IMOP, New Building (NB), room 200**	Prof. Artisyuk
	14:30-15:00	Lunch	
	15:00-18:00	Construction of nuclear reactor. Technological schemes of nuclear power plants with various types of reactors. Modeling of Vaporization Processes	Prof. Agafonova (Peter the Great St. Petersburg Polytechnic University)
26	09:00-12:00	**IMOP, NB, room 200** Nuclear Fusion Reactors	Prof. Zanino (Politechnico di Torino)
	12:00-12:30	Lunch	
	12:30-16:30	Nuclear Fusion Reactors	Prof. Zanino (Politechnico di Torino)

27	09:00-12:00	**IMOP, NB, room 200** Superconducting Magnets and Cryogenics for Nuclear Fusion Reactors	Prof. Savoldi (Politechnico di Torino)
	12:00-12:30	Lunch	
	12:30-16:30	Superconducting Magnets and Cryogenics for Nuclear Fusion Reactors	Prof. Savoldi (Politechnico di Torino)
28	09:00-12:00	**IMOP, NB, room 200** Economics of Nuclear Power	Prof. Skoda (Czech Technical University)
	12:00-12:30	Lunch	
	12:30-16:30	Economics of Nuclear Power	Prof. Skoda (Czech Technical University)
29	08:00	Excursion to the Leningradskaya NPP (Group 1)`	
	10:00-13:00	**IMOP, NB, room 200** Lecture. Prof. Agafonova (Peter the Great St. Petersburg Polytechnic University)	
Feb.	**Time**	**Course**	**Person in charge**
1	09:00-13:00	**IMOP, NB, room 200** Neutron Transport Methods for Nuclear Reactor Core Design	Prof. Ravetto (Politechnico di Torino)
	13:00-13:30	Lunch	
2	09:30-13:00	**IMOP, NB, room 200** Nuclear engineering for energy production - Generation III and Small Modular Reactor technologies	Prof. Ricotti (Politechnico di Milano)
	13:00-13:30	Lunch	
	13:30-17:30	Nuclear engineering for energy production - Generation IV reactor technologies	Prof. Cammi (Politechnico di Milano)

3	09:00-12:00	**IMOP, NB, room 200** Neutron Transport Methods for Nuclear Reactor Core Design	Prof. Ravetto (Politechnico di Torino)
	12:00-12:30	Lunch	
	12:30-16:30	CFD Modeling in Nuclear Applications	Prof. Zacha (Czech Technical University)
	08:00	Excursion to the Leningradskaya NPP (Group 3)`	
4	09:00-12:00	**IMOP, NB, room 220** Nuclear Safety	Prof. Dostal (Czech Technical University)
	12:00-12:30	Lunch	
	12:30-16:00	Probabilistic Safety Assessment	Prof. Dostal (Czech Technical University)
	16:00-17:30	Final test	
5	08:00	Excursion to the Leningradskaya NPP (Group 2)	
	10:00-13:00	**IMOP, NB, room 200** Lecture. Prof. Paramonova (Peter the Great St. Petersburg Polytechnic University)	
6	09:00-12:00	**IMOP, NB, room 200** Theoretical Nuclear Thermal Hydraulics Part 1	Prof. Hyvärinen (Lappeenranta University of Technology)
	12:00-12:30	Lunch	
	12:30-15:00	Theoretical Nuclear Thermal Hydraulics Part 2	Prof. Hyvärinen (Lappeenranta University of Technology)
	15:00-16:00	Wrap up	