



ONLINE SUMMER SCHOOL

POCATOM NUCLEAR ENGINEERING

JULY 20 - AUGUST 01, 2020

LEARN MORE ABOUT NUCLEAR ENGINEERING AND
HAVE EXCITING HOLIDAYS IN THE MOST
BEAUTIFUL VIRTUAL CITY OF RUSSIA

ECTS credits: 4.0



POLYTECH

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St. Petersburg Polytechnic
University



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BRIEF DESCRIPTION

The School provides the unique opportunity to attend intensive academic program, which is composed of different lectures in nuclear engineering with experience from professors of European countries, with different opinions and approach. All studies are developed accordingly to the European requirements and can be recognized as a period abroad.

Skills and competence to be acquired by students

During two weeks students get practical skills in modeling of different modes of nuclear power plant (will be used specialized software); open lectures on the base of our industrial partner Rosenergoatom, the branch of "Leningrad Nuclear Power Plant" / State Atomic Corporation "Rosatom" / Central Institute for Advanced Studies of State Atomic Corporation "Rosatom" deep knowledge in nuclear engineering, technologies, legislation, and innovations in Russian Federation and abroad

Cost:

US\$450- includes registration, teaching costs, 4.0 ECTS credits Certificate, 40 hours online russian language course and ALAR's Certificate

Program dates: JULY 20 - AUGUST 01, 2020

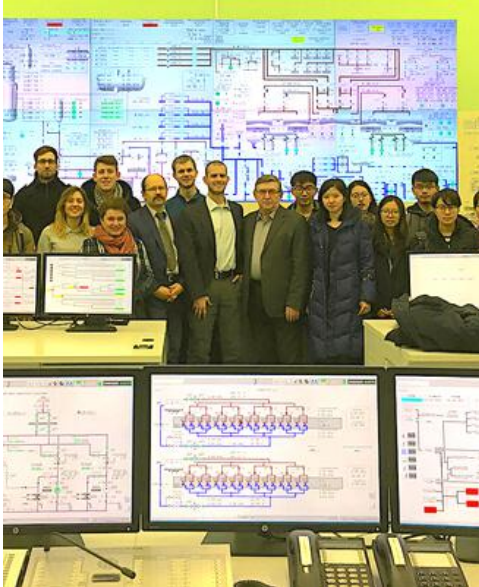
Registration deadline: July 04, 2020



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Entrance requirements:

- . Specialized background in Nuclear Engineering
- . Good command of English
- . All classes and out-of-class activities are conducted in English
- . Knowledge of the Russian language is not required
- . Applicants are expected to have at least 2 year of University level studies.

Program partners

- Rosenergoatom, the branch of "Leningrad Nuclear Power Plant"
- State Atomic Corporation "Rosatom"
- Central Institute for Advanced Studies of State Atomic Corporation "Rosatom"
- Politecnico di Torino
- Politecnico di Milano
- Power Machines Industry

Professors and lecturers

SPbPU professors, leading international professors and guest speakers from companies

Course and calendar description

Please find attached curricula and calendar at the end of this document

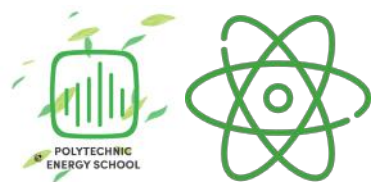
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NUCLEAR ENGINEERING

TIME	MON JULY 20th	TUE JULY 21st	WED JULY 22nd	THU JULY 23rd	FRI JULY 24th	SAT JULY 25th	SUN JULY 26th
10:00	Introduction to nuclear power plants	Thermal-hydraulics of nuclear reactor	Application of digitalization in nuclear industry	Nuclear desalination	Modern situation in Russian / world nuclear sector		
10:15							
10:30							
10:45							
11:00							
11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break		
11:30	Neutronic concepts of nuclear reactor	Thermal-hydraulics of nuclear reactor	Application of digitalization in nuclear industry	Nuclear desalination	Chernobyl disaster		
11:45							
12:00							
12:15							
12:30							
12:45							
13:00	Consultation						
13:15							
13:30							
13:45							
14:00	Cultural Programme: Lesson 1 *	Cultural Programme: Lesson 2*	Campus Tour	Cultural Programme: Lesson 3*	Cultural Programme: Lesson 4*		Cultural Programme: Lesson 5*
14:15							
14:30							
14:45							
TBA					Live-chat		Live-chat
TBA						White Nights Live	

* - Recommended timing for Cultural Programme **TBA** - To Be Announced



NUCLEAR ENGINEERING

TIME	MON JULY 27th	TUE JULY 28th	WED JULY 29th	THU JULY 30th	FRI JULY 31st	SAT AUG 1st	SUN AUG 2nd
10:00	Generation IV reactors. Introduction	Generation III reactors	Generation IV reactors: modelling and simulation	Passive safety systems in New Generation Reactors	Generation IV reactors: Molten Salt Reactor (MSR)		
10:15							
10:30							
10:45							
11:00							
11:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break		
11:30	Generation IV reactors. Introduction	Small Modular Reactors	Generation IV reactors: modelling and simulation	Numerical Exercise	Economics of Nuclear Power Plants (+numerical exercise)		
11:45							
12:00							
12:15							
12:30							
12:45							
13:00	Consultation						
13:15							
13:30							
13:45							
14:00	Cultural Programme: Lesson 6*	Sport Day	Cultural Programme: Lesson 7*	Cultural Programme: Lesson 8*	Cultural Programme: Lesson 9*		
14:15							
14:30							
14:45							
TBA			Live-chat		Closing Ceremony		
TBA						White Nights Live	
* - Recommended timing for Cultural Programme						TBA - To Be Announced	