



VVER TECHNOLOGY WORKSHOP

ITU Energy Institute

February 08-12, 2021

Head of Organization Committee:

Dr. Lecturer Senem ŞENTÜRK LÜLE
ITU, Energy Institute

Invited Speakers:

Prof. Alexander Nakhabov
Prof. Dmitry Samokhin
Prof. Victor Slobodchuk
National Research Nuclear University (MEPhI)

8 February 2021, Monday

- 09:30-09:45 Opening Session
- 09:45-12:00 Introduction to Nuclear Power Engineering I
- 12:30-13:30 LUNCH
- 13:30-16:30 AES-2006 PWR (VVER-1200) Design I

9 February 2021, Tuesday

- 09:30-12:30 Main Technological Systems of the Power Unit I
- 12:30-13:30 LUNCH
- 13:30-16:30 Introduction to Nuclear Power Engineering II

10 February 2021, Wednesday

- 09:30-12:30 Main Technological Systems of the Power Unit II
- 12:30-13:30 LUNCH
- 13:30-16:30 AES-2006 PWR (VVER-1200) Design II

11 February 2021, Thursday

- 09:30-12:30 Main Technological Systems of the Power Unit III
- 12:30-13:30 LUNCH
- 13:30-16:30 AES-2006 PWR (VVER-1200) Design III

12 February 2021, Friday

- 09:30-12:15 Main Technological Systems of the Power Unit IV
- 12:15-12:30 Closing Session

The workshop will be held by ITU Energy Institute as Zoom meeting.
The details of the participation will be shared with participants after registration.

Registration: Name-Surname/University-Institution/Department information should be sent to nbm@itu.edu.tr no later than 6 February 2021.

(Certificates will be given to the participants who have at least 70% attendance.)



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Course Content

1. Introduction to Nuclear Power Engineering - Prof. Alexander Nakhabov

Brief history of nuclear power engineering in the world, survey of NPPs of Russian design (projects, operating principles, main equipment), NPPs life-cycle, economic and social aspects of nuclear power.

2. AES-2006 PWR (VVER-1200) Design - Prof. Dmitry Samokhin

AES-2009 PWR (VVER-1200) design: structures of the components, materials selection, manufacturing of the main components, operation history of the existing VVER-1000. The lecture material includes visual drawing, video files and graphics.

3. Main Technological Systems of the Power Unit - Prof. Victor Slobodchuk

The examination of the main technological equipment of the nuclear island and the conventional (turbine) island for the VVER power unit.