

<p>ANKARA UNIVERSITY INSTITUTE OF NUCLEAR SCIENCES</p>	<p><b>II. INTERNATIONAL NUCLEAR SUMMER SCHOOL</b> <b>(Chernobyl and Rivne Nuclear Power Plants)</b></p> <p><b>1-7 July 2019</b> <b>Kyiv / UKRAINE</b></p>	
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<http://meetings-nbe.ankara.edu.tr>

Ankara University Institute of Nuclear Sciences, Odessa National Polytechnic University (ONPU), the State Scientific and Technical Center for Nuclear and Radiation Safety (SSTC NRS) and Energoatom are organizing the second International Nuclear Summer School in Kiev from July 1 to 7, 2019. The summer school will start with a visit to the Chernobyl Nuclear Power Plant. Detailed information about the nuclear accident, that happened on April 26, 1986, will be given with interactive lectures and the territory of the nuclear plant will be examined. At the end of the summer school, the Rivne Nuclear Reactor, which is in operation, will be visited. The lectures will be in English. At the end of the summer school, an exam will be done and the participants will be awarded with a certificate of participation. Applications to the summer school can be done by filling out the application form on the website. The application is open to all relevant public and private employees, university staff, academicians, undergraduate and graduate students.

## PROGRAM

### 01 July 2019, Day 1

Arrival of participants, hotel accommodation.  
City tour excursion (*optional*). Can be bus excursion or Kyiv walking tour.

### 02 July 2019, Day 2

Meeting in a lobby of a hotel, brief instructions  
Technical tour to Chernobyl Exclusion Zone with interactive lecture

### 03 July 2019, Day 3

Registration of participants/opening of the school/overview of the school program	8:30 – 9:00
<b>Presentation 1</b> Nuclear education in The Odessa National Polytechnic University (ONPU, Ukraine)	9:00 – 9:30
<b>Presentation 2</b> Scientific, technical and engineering support of the operating organization (SS “Scientific and Technical Center” NNEGC “Energoatom”), Ukraine)	9:30 – 10:00
<b>Presentation 3</b> Overview of the SSTC NRS activities in the area of training and tutoring (SSTC NRS)	10:00 – 10:30
<b>Coffee Break</b>	
<b>Lecture 1.</b> Introduction to reactor’s physics	11:00 – 11:45
<b>Lecture 2.</b> Overview of VVER design. Brief history of VVER	11:45 – 12:30
<b>Lunch</b>	
<b>Lecture 3.</b> Basic safety principles and defense in depth concept as the design basis of a VVER-1000/1200 reactor facility	13:30 – 14:15
<b>Lecture 4.</b> Buildings and structures arrangement. Protection of external impacts (hazards) at the design stage of VVER 1200. Main normal operating systems: Reactor. Core and reactor design.(Part 1)	14:15 – 15:00
<b>Coffee Break</b>	
<b>Lecture 4.</b> Buildings and structures arrangement. Protection of external impacts (hazards) at the design stage of VVER 1200. Main normal operating systems: Reactor. Core and reactor design.(Part 2)	15:30 – 16:15
<b>Lecture 5.</b> <i>Specific issue: Diversification of Nuclear Fuel Supplies for WWER Reactors</i>	16:15 – 17:00

### Summary and conclusions of the day

Welcome Reception

### 04 July 2019, Day 4

Overview of the Day 3, energizing	8:45 – 09:00
<b>Lecture 6.</b> Primary circuit and connected systems.	09:00 – 10:00
<b>Lecture 7.</b> Steam generators and secondary circuit systems. Electrical and I&C systems at	10:00 – 11:00
<b>Coffee Break</b>	
<b>Lecture 8.</b> Spent fuel pool and SPF cooling systems	11:30 – 12:30
<b>Lunch</b>	
<b>Lecture 9.</b> Safety systems: front-line; support; control; containment (Part 1)	13:30 – 15:00
<b>Coffee Break</b>	
<b>Lecture 9.</b> Safety systems: front-line; support; control; containment (Part 2)	15:30 – 16:00
<b>Lecture 10.</b> <i>Specific issue: Implementation of post-Fukushima safety improvement measures at Ukrainian NPPs</i>	16:00 – 17:00

**Summary and conclusions of the day  
05 July 2019, Day 5**

Overview of the Day 4, energizing	8:45 – 09:00
<b>Lecture 11.</b> Operating procedures and documentation: Operating Instructions and Procedures; Technical Specifications; EOPs; FLEX. (Part 1)	09:00 – 10:30
<b>Coffee Break</b>	
<b>Lecture 11.</b> Operating procedures and documentation: Operating Instructions and Procedures; Technical Specifications; EOPs; FLEX. (Part 2)	11:00 – 12:30
<b>Lunch</b>	
<b>Lecture 12.</b> <i>Specific issue: Development and review of SAMGs at Ukrainian NPPs</i>	13:30 – 15:00
<b>Coffee Break</b>	
<b>Final test</b>	15:30 – 16:15
Training summary and feedback from participants. Awarding certificates	16:15 – 17:00

**06 July 2019, Day 6**

Departure to Varash, Rivne region/Technical visit to Rivne NPP

**07 July 2019, Day 7**

Departure of participants to Kyiv/Boryspil Airport



**Application Deadline: 1 May 2019**