

**PROGRAM FOR THE INTERNATIONAL NUCLEAR SUMMER SCHOOL**

**13 – 21 JULY 2018 (8 DAYS)**

**ODESSA, UKRAINE**

<b>Day 1: 13.07.2018</b>	
Arrival of participants City tour	
<b>Day 2: 14.07.2018</b>	
Opening of the school, registration of participants Opening speech (Prof. Dr. Niyazi Meriç) Opening speech (Prof. Dr. V. Shobik)	9.00– 9.30
<b>Lecture 1.</b> Evolution of the development of VVER-1000 reactors (ONPU – Prof. Kravchenko V.)	9.30-11.00
Coffee Break	20 min
<b>Lecture 2.</b> Neutron physics (Prof. Dr. Ayse Kaskas)	11.20-12.50
Lunch	
<b>Lecture 3.</b> Radiation damages and life management of nuclear reactor vessel. (ONPU – Doc. Zoteev O)	14.00-15.30
Coffee Break	20 min
<b>Lecture 4.</b> Radiation physics (Dr. Eren Şahiner)	15.50-17.20
<b>Day 3: 15.07.2018</b>	
<b>Lecture 5.</b> Radiation Detection and Measurement (Prof. Dr. Haluk Yucel)	09.00-10.30
Coffee Break	20 min
<b>Lecture 6.</b> Nuclear safety regulatory system. Scientific and technical support (SSTC - Gumenyuk D.)	10.50-12.20
Lunch	
Free time	
<b>Day 4: 16.07.2018</b>	
<b>Lecture7.</b> Nuclear reactor physics (ONPU – Doc. Kolyhanov)	09.00-10.30
Coffee Break	20 min
<b>Lecture 8.</b> Reactors of the new generation (ACR, AP – 1000, VVER -1200) (ONPU – Prof. Kravchenko V.)	10.50-12.20
Lunch	
<b>Lecture 9.</b> Basics of Safe Operation of Nuclear Power Plants (ONPU – Doc. Komarov Yu.)	14.00– 15.30
<b>Day 5: 17.07.2018</b>	
<b>Lecture 10.</b> Nuclear Security Education (Prof. Dr. Haluk Yucel)	09.00-10.30
Coffee Break	20 min
<b>Lecture 11.</b> The use of thermal hydraulic computer codes to justify the safety of NPP operation (SSTC - Vyshemirskiy M. )	10.50-12.20
Lunch	
<b>Lecture 12.</b> Nuclear Fuel Cycle (Assoc. Prof. Dr. Gaye O. Cakal)	14.00– 15.30

<b>Day 6: 18.07.2018</b>	
Lecture 13. Modern approaches to the reassessment of nuclear power safety in view of the accident at the Fukushima-1 nuclear power plant (ONPU –Prof. Skalozubov V.)	09.00-10.30
Coffee Break	20 min
Lecture 14. State-of art approaches on use of neutron kinetic codes for NPP safety justification (SSTC - Ovdiienko Iu.)	10.50-12.20
Lunch	
Brain Ring	14.00 – 15.30
Coffee Break	20 min
The results of the nuclear school, the opinion of the participants, the closure of the school Certificate ceremony	15.50-16.30
Theatre of opera and ballet	18:30
Departure to Zaporizhzhya	
<b>Day 7: 19.07.2018</b>	
ZaporizhzhyaNPP visit	
<b>Day 8: 20.07.2018</b>	
Training center visit Departure of participants to Odessa and then to Ankara	