This Project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Sklodowvska-Curie grant agreement 101086178

Research and Innovation Staff Exchange (RISE)

HORIZON-MSCA-2021-SE-01

"INNMEDSCAN 101086178"

Summer School

"Advanced Radiation Detection and Nuclear Technologies",

June 18-19, 2026,

İnstitute of Radiation Problems, Nuclear Research Department, Baku, Azerbaijan

Wednesday, June 18 2026

Time	Activity	Speaker / Responsible
09:00–09:30	Registration of Participants	Organizing Committee
09:30–09:45	Welcome Remarks and Workshop Opening	Jalal Naghiyev
09:45–10:00	Health, Safety and Radiation Protection Briefing	Radiation Safety Officer: Bahadur Ahmadov
10:00–10:30	Introduction to the Nuclear Research Department: Research Infrastructure and Activities	Jalal Naghiyev
10:30–11:00	Advanced Radiation Detection Technologies and Their Applications	Azer Sadigov
11:00–11:20	Coffee Break	
11:20–12:00	Silicon Photomultipliers (SiPM) and Modern Scintillation Detectors	Gadir Ahmadov
12:00–12:40	Gamma-Ray Spectroscopy and Nuclear Forensics	Scientific Expert
12:40–13:30	Lunch Break	
13:30–14:10	Design of Detector Electronics and Data Acquisition Systems	Ayaz Gulamirov
14:10–14:50	Software for Detector Control and Signal Processing	Nurlan Abbaszade
14:50–15:10	Coffee Break	

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15:10–16:00	Current International Research Projects and Collaboration Opportunities	Azer Sadigov
16:00–16:45	Open Discussion and Questions	All Participants
16:45–17:00	Summary of Day 1	Jalal Naghiyev

Thursday, June 19 2026

Time	Activity	Instructor
09:00–09:15	Introduction to Practical Sessions	Jalal Naghiyev
09:15–10:15	Master Class 1: Assembly and Configuration of SiPM-Based Detection Systems	Azer Sadigov
10:15–11:15	Master Class 2: Radiation Source identification	Bahadur Ahmadov
11:15–11:30	Coffee Break	
11:30–12:30	Hands-on Training: Operation of Gamma-Ray Spectroscopy Systems	Abdulla Hajiyev
12:30–13:30	Lunch Break	
13:30–14:30	Master Class 3: Radiation monitoring	Ayaz Gulamirov
14:30–15:30	Hands-on Exercise: Energy Calibration, Spectrum Analysis and Isotope Identification	Abdulla Hajiyev
15:30–15:45	Coffee Break	
15:45–16:30	Laboratory Demonstration: Gamma Sterilization Complex	Zaur Khalilov
16:30–17:00	Discussion, Evaluation, Closing Ceremony	Jalal Naghiyev