

Course Contents of Training Course on QA/QC of Nuclear Instruments/Counting Systems for Technical Personnel from 29th-31st October 2019.

<u>Lectures:</u>	Duration(h)
L1 Introduction to radiation and interaction with matter	01
L2 Radiological Characteristics and Calibration of Radiation Monitoring instruments/devices	02
L3 Radiation Detectors (Ion Chamber, Proportional Counter, GM, Scintillation, Semiconductor)	02
L4 Counting Statistics & Error Propagation	01
L5 Radiation Measuring Systems (GM counters, SCA, MCA and Instrumentation & troubleshooting)	02
L6 Quality Management System	01
L7 Monitoring of Occupational Exposure and Work Place Monitoring	01
Total Lecture hours	10

<u>Practical:</u>	Duration(h)
P1 Familiarization of test & Measuring equipment	01
P2 Q.C. Of SCA	01
P3 GM counting/ Counting with statistics	02
P4 Introduction of Gamma Spectroscopy system and QA	02
P5 Q.C. Of Radiation Survey meters / Calibration	02
Total Practical hours	08