

EIN 103: BASIC COURSE ON RADIATION DETECTORS & MEASUREMENT

Introduction:

Radiation Detection and Measurement play an important role in our life. For those who work with or around radiation, one of the most important factors is an awareness of the levels of radiation around them. This is primarily accomplished through the use of radiation detectors of varying types. Its cover a wide range of applications from personnel to many applications such as x-ray scanning & security, medical, agricultural, environment and others. A basic understanding of the different types of detectors out there and how they work can go a long way both to finding the best detector for the required task and also for maximizing the benefits of operating that detector.

Objective:

- To introduce basic principle of nuclear radiation physics, radiation detection, measurements and maintenance
- To provide knowledge and understanding on different types and functions of radiation detectors and measurements
- To explain the physical principles operation of various detectors

Content:

- Basic Nuclear Physics & Radiation Protection
 - Basics On Nuclear Physics
 - Principle of Radiation Protection
 - Quantity and Unit of Radiation Measurement
 - ALARA Principle in Radiation Detection
- Radiation Detectors
- NIM Modules for Nuclear Electronics
- Selection of Radiation Detection & Measurement
- Usage of Radiation Detection

Methodology

- Lecture
- Tutorial
- Lab activity

Who Should Attend

Radiation protection officer (RPO), radiation protection supervisor (RPS), safety officer, radiation worker, technicians, laboratory assistant, supplier of radiation equipments and those who are involved and interested in radiation detectors and measurement

Your Investment

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