



Faculty Development Program



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Title : Applied Radiobiology: Concepts, Clinical Practice, and Research Advances

Date : 2026-03-30 - 2026-03-30

Time : 10:00 - 13:15

Venue : VCH316 LIBRARY

Event Outcome

- By addressing the gap between academic knowledge and real-world needs



Resource Person 1 - Details

Name : DR Mukti KANTH RAY

Designation : SCIENTIST G, Radiopharmacy and radiation medicine

University/ Company : BARC, MUMBAI

Address : India, 400012.



Resource Person 2 - Details

Name : MUKTI KANT RAY

Designation : SCIENTIFIOC OFFICER G AND HEAD, RADIOPHARMACY

University/ Company : BARC, MUMBAI

Address : INDIA, 400012.

Resource Person's Profile :

1. Profile of DR Mukti KANTH RAY

Expert Radiation technology for the treatment of thyroid and oral cancer

2. Profile of MUKTI KANT RAY

Muktikant Ray is an expert Radiopharmacist and ability to design various radiolabels for thyroid and oral cancers and published several reserach journals. He is heading Radiopharmacy at BARC, MUMBAI

Radiobiology explores the interactions of ionizing radiation with living tissues, spanning molecular DNA damage to organizational health impacts and therapeutic innovations. This Faculty Development Programme (FDP) equips Faculties with foundational principles, cutting-edge advances in radiotherapy optimization, radiation protection strategies, and emerging fields like low-dose epidemiology and targeted radionuclide therapies.

Designed for faculty in Medicine and Biotechnology, the 5-day program bridges theory and practice through lectures and discussion on key concepts such as cell survival curves, Repair, Repopulation, Re-oxygenation, Redistribution, Radio-sensitivity, oxygen enhancement ratios, and regulatory frameworks like AERB guidelines.

Radiation tools

Coordinator's: Prof. JANAKI RAMAIAH M 22483 - Professor Grade 2 - SBST
Prof. GOTHANDAM K.M 11264 - Professor Higher Academic Grade - SBST