



# Clinical Radiobiology for Radiation Oncologist



## ARO I ICRO Radiobiology2022

(Intas) Teaching Course (South Zone)

Indian College of Radiation  
Oncology (ICRO)

WING OF ASSOCIATION OF  
RADIATION  
ONCOLOGISTS OF INDIA  
(ARO I)

Thursday - 1st September 2022  
(Time — 8:30 AM to 4:45PM)  
Venue : MVR Cancer Centre &  
Research Institute  
CP 13/516 B, C, Vellalasseri NIT, Via,  
Poolacode,  
Kerala - 673601

### ARO I

#### Chairman

Dr. P. Vijaya Anand Reddy  
Director  
Apollo Cancer Hospital  
Hyderabad - 500033  
E-mail  
vijayapreddy@hotmail.com

#### President

Dr. Rajesh Vashistha  
Senior Consultant Radiation  
Oncology  
Max Super Speciality Hospital  
Bathinda  
E-mail: drvashistha@gmail.com

#### President Elect

Dr. Manoj Kumar Gupta  
Dean, Professor & Head,  
Dept of Radiotherapy  
AIIMS, Rishikesh  
Email: mkgupta62@yahoo.co.in

#### Secretary

Dr. G. V. Giri  
Professor  
Dept of Radiation Oncology  
Kidwai Memorial Institute of  
Oncology, Bangalore  
E-mail- girinhuba@gmail.com

### ICRO

#### Chairman

Dr. Satyajit Pradhan  
Professor  
Dept. of Radiotherapy and  
Radiation Medicine  
Institute of Medical Science,  
BHU, UP  
E-mail: atyajit.pr@gmail.com

#### Secretary

Dr. V Srinivasan  
Head of Radiation Oncology  
MIOT International Hospital,  
Chennai  
E-mail  
vsrinivasan09@gmail.com

### Course Coordinator

#### Dr. Dinesh Makuny

Sr. Consultant & HOD  
Radiation Oncology  
MVR Cancer Centre & Research Institute  
Calicut

This educational  
programme is supported  
by an Unconditional grant  
from



Expressions for a Healthy Life



## Registration

---

Kindly use the QR code or Link to register

**1st Sep 2022**



Click Now

## Course Director

---

**Dr. Manoj Kumar Gupta**

Dean, Professor & Head Dept of Radiation Oncology  
All India Institute of Medical Sciences Rishikesh,  
Uttarakhand, Email: mkgupta62@yahoo.co.in

## Organizing Secretary

---

**Dr. Vishnu Rajan Nambiar**

**Dr. Shamsudeen Cholayil**

Radiation Oncology Consultant MVR Cancer  
Centre & Research Institute Calicut

## Course AIM

---

- ♥ To understand radio-biological Principles,
- ♥ To know its clinical applications and implications

## Course Eligibility

---

- ♥ 1st, 2nd & 3rd year MD/DNB/DMRT (Radiation Oncology) post graduate Sr. Residents & Consultant Radiation Oncologists.
- ♥ Travel to be borne by participants.
- ♥ The course is FREE without any Registration FEE.

## Program Schedule

---

8:30 AM	Registration
9:00-9:30 AM	Inauguration
9:30-11:15AM	Module 1 & 2 Interaction with matter & Radiation Injury to Cells, Mechanism of action Cell Survival Curve, Exponential relationship, D10 & DO, Multi Model. L-Q Model)
11:15-11:30AM	High Tea
11:30-1:15PM	Module 3 (Clinical Applications of LQ Models, Normal Tissue injury with emphasis to spinal cord BED and its clinical applications, Altered fraction and its radiobiological basis)
1:15-2:00PM	Lunch
2:00-3:15PM	Module 4 (Radiobiology of Hypofraction, SRS & SBRT, factors affecting cell survival curve, HRS & IRR, Dose Rate Effect, Oxygen Effect, Radiobiology of fractionated RT. Intrinsic Sensitivity)
3:15 -3:30 PM	High Tea
3:30-4:45 PM	Module 5 (4Rs of Radiobiology, Role of 4 rs in SRS & SRT, TCP, NTCP Therapeutic ratio LET and RBE)
4:45 PM	Valedictory

