



Indian College of Radiation Oncology (ICRO)
Wing of Association of Radiation Oncologists of India
(AROI)
23rd AROI ICRO Radiobiology 2026
(INTAS)

Teaching Course On Clinical Radiobiology for Radiation Oncologist



Patron
Prof. Meenu Singh
Executive Director & CEO
AIIMS Rishikesh



Co Patron
Prof. Saurabh Varshny
Dean Academics
AIIMS Rishikesh



Co Patron
Prof. Satya Sree Balija
Medical Superintendent
AIIMS Rishikesh



Course Director
Prof. Manoj Kumar Gupta
Professor & Head
Dept of Radiation oncology
SGRR Institute of Medical & Health
Sciences, Dehradun

Date: 21st February Saturday

Time: 8:30AM - 4:45 PM

Venue:-Mini Audi 3rd floor Academic block

All India Institute of Medical Sciences Rishikesh

Uttarakhand

AROI

Chair–AROI

Dr. Manoj Kumar Gupta
Professor & Head,
Dept of Radiation Oncology
SGRR Institute of Medical &
Health Sciences, Dehradun

President–AROI

Dr. Surendra Nath Senapati
Prof & Head
Dept of Radiation Oncology
AHRCC Cuttack

President Elect-AROI

Dr C S Madhu
Head Lourdes
Hospital Kochi

Secretary General-AROI

Dr. V. Srinivasan
Head MIOT International Hospital
Chennai

ICRO

Chairman-ICRO
Dr. Sarbani Ghosh
Laskar Professor, TMH,
Mumbai

Vice Chairman-ICRO
Dr. Gautam K Sharan
HBCH & RC, Muzaffarpur

Secretary-ICRO
Dr. Pooja Nandwani

Patel
Director, Sterling Hospital, Ahmedabad

Organizing Committee



Organizing Chairperson

Dr. Deepa Joseph
Additional Professor & Head,
Dept of Radiation Oncology
AIIMS Rishikesh
Mob: 8978386509



Organizing Secretary

Dr. Sweety Gupta
Additional Professor,
Dept of Radiation Oncology
AIIMS Rishikesh
Mob: 9891981332

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) postgraduate Senior Residents & Consultant Radiation Oncologists.
- Travel & Accommodation to be borne by participants.
- The course is FREE without any Registration FEE

Course Schedule

8:30AM	Registration
8:50AM	Inauguration
9:30-11:15AM	Module1 & 2 Interaction of radiation with matter, Radiation Injuries to Cell, Mechanism of action, Cell Survival Curve, Exponential relationship, D_{10} & D_0 , Multi Target Model, L-Q Model
11:15-11:30AM	High Tea
11:30-1:15PM	Module 3 -Clinical Applications of L-Q Models, Normal Tissue injury with emphasis to spinal cord BED and its clinical applications, Altered fraction and its radio biological basis, Fractionation based on molecular markers.
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 and SF_2)
3:15-3:30PM	High Tea
3:30-4:45 PM	Module 5 -(4Rs of Radiobiology, Role of 4Rs in SRS & SBRT, TCP, NTCP Therapeutic ratio LET and RBE)
4:45PM	Valedictory

Registration Link:

<https://docs.google.com/forms/d/e/1FAIpQLSe6r3c3rTfxu4eE349fA6nqKnMQcfegjtD4JHR0gm5Lay2O7A/viewform?usp=header>

