



**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 Baliya
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: 8:30 AM - 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

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Mumbai

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HBCH & RC, Muzaffarpur

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Patel
Director, Sterling Hospital, Ahmedabad

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Organizing Chairperson
Dr. Deepa Joseph
Additional Professor & Head,
Dept of Radiation Oncology
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Organizing Secretary
Dr. Sweety Gupta
Additional Professor,
Dept of Radiation Oncology
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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	Module 1 & 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

RegistrationLink:

<https://docs.google.com/forms/d/e/1FAIpQLSe6r3c3rTfxu4eE349fA6nqKnMQcfcgitD4JHR0gm5Lay2O7A/viewform?usp=header>

