Medical and Radiological Physics

WHERE?

Centre for Medical and Radiation Physics, National Institute of Science Education and Research (NISER), Jatni, Odisha, an autonomous institute under the Department of Atomic Energy (DAE), Government of India affiliated to the Homi Bhabha National Institute, Mumbai.

ABOUT

Medical physics is the branch of science that mainly deals with the applications of ionizing radiation in health care through radiotherapy, diagnostic radiology, nuclear medicine and the associated radiological protection. Specifically, for past several decades, ionizing radiation is being used worldwide for the treatment of cancer and diagnosis of the various diseases.

The Master's program is the first of its kind in the State of Odisha. It is also the first of its kind at Master's level being conducted by an institution of the Department of Atomic Energy, Government of India.

SCOPE

The demand for number of radiological and medical equipment is tripling, so the number of the medical physicists also will increase by three times. Hence, there is a need for more medical physicists to be trained.

Skills developed by students

- Safe use of diagnostic and treatment radiation equipment
- Quality assurance of radiation machines, radiation treatment planning and radiation treatment delivery
- In-depth knowledge on the radiation machine structure and function
- Understanding of principles and physical laws governing the bio-logical effects of radiation
- Solution of radiation therapy technology related problems
- \bigcirc Train junior technicians in radiation therapy and trainee oncologists on the relevant aspects of medical physics
- Innovation in radiation therapy technology to enhance safety, improvement of efficacy and cost effective assurance of service

Who can apply and how?

Candidates who wish to apply should meet the minimum criteria below:

- 1. First class (60% and above) in Bachelor's degree in Physical Sciences or an equivalent degree with Physics as one of the main subjects from a recognized University.^a
- 2. Candidates should have JAM 2025 / JEST 2025 scorecards.

Only online applications through the website are accepted.

^aCandidates who are appearing in their Final Examination for Bachelor's Degree can also apply provided they submit an undertaking that they will submit the Qualifying degree certificates by the time of Interview.

PROGRAM DETAILS AND SUPPORT

The master's program in medical and radiological physics has been designed according to the syllabus prescribed by the Homi Bhabha National Institute (HBNI), Mumbai. It has a rigorous curriculum with emphasis on physics, radiology and its medical applications.

Degree award-		Homi Bhabha National Institute, Mumbai
ing institute		
Duration of the	:	2 years Master's program and 1 year mandatory in-
course		ternship
No. of seats	:	10
Minimum qual-	:	60% marks in B. Sc with physics as a main course
ification and se-		and JAM 2025 / JEST 2025 scorecards. The shortlist-
lection		ing will be based on JAM 2025 / JEST 2025 marks,
		followed by interview for selection
Fellowship	:	Rs. 16,000/- p.m. + HRA and mentorship grant as
		per DAE rules, during master's program
Internship hos-	:	All India Institute of Medical Sciences,
pitals as per		Bhubaneswar, Acharya Harihara Post Gradu-
AERB guide-		ate Institute of Cancer, Cuttack and Tata Memorial
lines		Centre, Mumbai. Internship will be offered only
		to students who have a CGPA of 6 or greater in the
		course.

More details about the program are available at: https://www.niser.ac.in/cmrp/

UMBRELLA INSTITUTIONS



harashtra 400001



Atomic Energy Regulatory Board (AERB) Niyamak Bhavan, Anushakti Nagar, Mumbai, Maharashtra 400094, India

COLLABORATING INSTITUTIONS





Acharya Harihar Post Graduate Institute of Cancer (AHPGIC) SCB Medical Road, Mangalabag, Medical college post office, Cuttack. Odisha 753007___



Tata Memorial Centre (TMC) Dr. E Borges Road, Parel, Mumbai, Maharashtra 400 012

IMPORTANT DATES

Date of Activation of online application Last date of online application Announcement of shortlisted applicants Date of interview Announcement of final selection list

WEBPAGE

For applying online, please visit the 'Announcements' section of the NISER website https://www.niser.ac.in/locscan the QR code.

CONTACT

Centre for Medical and Radiological Physics, National Institute of Science Education and Research (NISER), PO-Bhimpur-Padanpur, Via-Jatni, Khurda-752050, Odisha, India Email: cmrp@niser.ac.in



Department of Atomic Energy (DAE) Anushakti Bhavan, Chhatrapati Shivaji Maharaj Marg, Mumbai, Ma-

Homi Bhabha National Institute (HBNI) 2nd floor, BARC Training School Complex, Anushaktinagar, Mumbai, Maharashtra 400094

All India Institute of Medical Sciences (AIIMS), Bhubaneswar Sijua, Patrapada, Bhubaneswar, Odisha 751019

> 10th April 2025 15th May 2025 30th May 2025 1st - 4th July 2025 5th July 2025



SURE NTERNSHIP