

# M.Sc. Medical and Radiological Physics



JOB PROSPECTS

ASSURED INTERNSHIP

## 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 biological effects of radiation
- Solution of radiation therapy technology related problems
- 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:

- A First Class B.Sc. in Physics with Mathematics as Ancillary subject. OR  
A First Class B.Sc. degree ( $\geq 60\%$  or  $\geq 6.5$  CGPA) with Physics as a major and Mathematics as an ancillary subject, and must have completed at least five of the following Physics courses: Mechanics, Electricity and Magnetism, Thermodynamics, Optics, Electronics, Solid State Physics, and Nuclear Physics.<sup>4</sup>
- Candidates should have JAM 2026 / JEST 2026 scorecards.
- Age Criteria: The candidate must have attained the minimum age of 20 years as of 31<sup>st</sup> July 2026.

Only online applications through the website are accepted.

<sup>4</sup>Candidates 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 awarding institute	Homi Bhabha National Institute, Mumbai
Duration of the course	2 years Master's program and 1 year mandatory internship
No. of seats	10
Minimum qualification and selection	Eligibility criteria as mentioned above. The short-listing will be based on JAM 2026 / JEST 2026 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 hospitals as per AERB guidelines	All India Institute of Medical Sciences, Bhubaneswar, Acharya Harihara Post Graduate Institute of Cancer, Cuttack and Tata Memorial Centre, Mumbai. <i>Internship will be offered only to students who have a CGPA of 6 or greater in the course.</i>

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

## UMBRELLA INSTITUTIONS



**Department of Atomic Energy (DAE)**  
Anushakti Bhavan, Chhatrapati Shivaji Maharaj Marg, Mumbai, Maharashtra 400001



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



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

## COLLABORATING INSTITUTIONS



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



**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	10 <sup>th</sup> April 2026
Last date of online application	15 <sup>th</sup> May 2026
Announcement of shortlisted applicants	28 <sup>th</sup> May 2026
Date of interview	30 <sup>th</sup> June - 3 <sup>rd</sup> July 2026
Announcement of final selection list	6 <sup>th</sup> July 2026

## WEBPAGE

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



## CONTACT

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