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IIT Hyderabad

BASAVATARAKAM
INDO-AMERICAN

Indian Institute of Technology Hyderabad

&

Basavatarakam Indo-American Cancer Hospital - Research Institute

jointly announce

M.Sc. in Medical Physics 2023

- Approved by Atomic Energy Regulatory Board (AERB), Govt. of India.
- Three-year post-graduate program with a strong emphasis on clinical application.
- Intended for highly motivated individuals interested in pursuing a career from a clinical or research perspective, or in professions that involve a knowledge of medical physics.

- Mode : Self Sponsored
- Estimated fee structure:
  - For the first 2 years of course-work (66 credits) : Rs. 10,000/credit
  - For the last 1 year of mandatory internship (24 credits) : Rs. 5,000/credit

- Eligibility:
  - B.Sc. (Physics) with 60 % marks, &
  - Valid JAM2023 score/INSPIRE scholarship
  - Final selection through interview.
- Course Duration : 3 Years

Link to the Application Form:
https://www.iith.ac.in/news/2023/04/24/PG-Admission-portal-extension/

Vision and Mission

Medical Physics is a field that applies the principles, techniques, and methods of physics in both research and practical settings to prevent, diagnose, and treat human illnesses with the ultimate aim of enhancing human health and overall quality of life.

Upon completion of the program, the student will possess the necessary knowledge of radiological physics principles, radiation biology, radiation safety, regulations, instrumentation, site planning, commissioning of radiation generators, quality control procedures, and clinical studies related to medical physics, radiation oncology, nuclear medicine, radiology, among other related fields. The students who complete this program will be qualified to work as "Medical Physicists" or "Radiological physicists" in cancer hospitals. The program requires students to undergo written and oral examinations @ BARC to be eligible to work as Radiological Safety Officer (approved by AERB) after completing the course. Additionally, the program includes a mandatory one-year medical physics and clinical internship at a clinical partner hospital following the successful completion of the course.

General Information

- **Participating Departments:** Physics, Bio-Medical Engineering Departments of IIT Hyderabad (Institute no. TS-87563)
- **Partnering Centers/Institute:** Basavatarakam Indo American Cancer Hospital and Research Institute (BIACH&RI); AERB eLORA ID: AP-00023
- **Program Mode:** Self-Sponsored
- **Minimum Eligibility:** BSc with Physics as one of the main subjects with 60% marks
- **Selection Criteria:** Valid JAM2023 score/INSPIRE scholarship Final selection through interview.
- **Duration:** 2 years of Course work and 1 year mandatory Medical Physics Internship in a AERB recognized institute (internship will start only after successfully completing course work and declaration of course results).
- **Total Credits (Tentative):** 66 Credits (in 2 years course) + 24 credits (Internship) (1 Year)

National Advisory Board

With the vision of creating a world class program from IIT Hyderabad, The Institute has constituted an advisory Panel for the Medical Physics Program at IIT Hyderabad with leading Medical Physicists and Radiation Oncology Clinicians on Board.

- Dr N R Jaganathan; Former Professor, Nuclear Magnetic Resonance Department, All India Institute of Medical Sciences, New Delhi
- Dr. Prakit Kumar, Head, Medical Physics, All India Institute of Medical Sciences, New Delhi
- Dr J.P. Agarwal, Professor & Head, Department of Radiation Oncology, Tata Memorial Hospital, Mumbai 400012
- Dr Nagraj Huilgol, Radiation Oncologist, Nanavati Hospital, Mumbai

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