

JEST - 2000

Joint Entrance Screening Test – 2000

(For Ph.D Programmes in Physics/Mathematics/Theoretical Computer Science)

Applications are invited from highly motivated persons, with a consistently good academic record, for enrollment in a Ph.D. programme in physics (including theoretical and observational astronomy, astrophysics, plasma physics and technology, earth and atmospheric sciences and space sciences)/mathematics/theoretical computer science, at any of the following institutes:

- ❖ Indian Institute of Astrophysics (IIA), Bangalore – Physics, Astronomy and Astrophysics.
- ❖ The Institute of Mathematical Sciences (IMSc), Chennai – Theoretical Physics, Mathematics and Theoretical Computer Science.
- ❖ Institute for Plasma Research (IPR), Gandhinagar – Physics (Experimental and Theoretical).
- ❖ Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune – Physics, Astronomy and Astrophysics.
- ❖ Inter-University Consortium for DAE Facilities (IUC-DAEF), Indore – Physics (Experimental Condensed Matter and Synchrotron Radiation).
- ❖ Mehta Research Institute of Mathematics and Mathematical Physics (MRI), Allahabad – Theoretical Physics, Mathematics and Astrophysics.
- ❖ National Centre for Radio Astrophysics (NCRA), TIFR, Pune – Physics (Astronomy and Astrophysics).
- ❖ Physical Research Laboratory (PRL), Ahmedabad – Physics (Experimental and Theoretical, Space Sciences, Earth and Atmospheric Sciences, Non-linear Dynamics, Computational Physics), Astronomy and Astrophysics.
- ❖ Raman Research Institute (RRI), Bangalore – Physics (Experimental Physics: Soft Condensed Matter, Optics, Theoretical Physics).

Minimum Qualifications

Physics: M.Sc. degree in physics or M.Sc./M.E./M.Tech. degree in related disciplines. Candidates with M.Sc. degree in mathematics will also be considered at IIA. At IPR, Master's degree in physics/engineering physics/applied physics, etc., is necessary. Graduates with a B.E. or B.Tech. degree will also be considered at IIA, IUCAA, NCRA and RRI.

Mathematics: M.Sc. degree in mathematics or M.Sc./M.E./M.Tech. degree in computer science or related disciplines. Candidates with B.E./B.Tech. will also be considered at MRI.

Theoretical Computer Science: M.Sc./M.E./M.Tech. degree in computer science or related disciplines, and should be interested in the mathematical aspects of computer science.

At IMSc, exceptionally talented B.Sc./B.E./B.Tech. graduates in physics/mathematics/computer science will also be considered for an early start in a Ph.D. programme in their respective disciplines.

In all disciplines, persons who expect to complete their final examination by August 2000, are also eligible to apply.

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Details about the various institutes and their Ph.D programmes are given in the brochures, which will be mailed with the application form.

Selection Procedures

Candidate applying for Ph.D. Programmes in physics/theoretical computer science will have to appear for the JEST (written examination) at any one of the following centres:

Ahmedabad, Allahabad, Bangalore, Bhubaneswar, Calcutta, Chandigarh, Chennai, Delhi, Guwahati, Hyderabad, Indore, Jaipur, Kanpur, Kharagpur, Kochi, Madurai, Mumbai, Nagpur, Patna, Pune, Raipur and Santiniketan.

Using the JEST results each institute will call separately, a limited number of candidates for its further selection procedure depending on its requirements. Travelling allowance will be provided to those who are called for interviews.

Admission to the Ph.D. programmes in mathematics at IMSc/MRI will be on the basis of an At-Home Examination, for which the question paper will be sent to the applicants after receiving their completed application forms, and subsequent separate interviews at IMSc/MRI.

All selected candidates will receive Research Fellowships.

How to Apply

There are separate application forms for Physics, Mathematics, and Theoretical Computer Science

Application forms can be obtained by writing to:

Physics: The Co-ordinator, Core Programme, IUCAA, Post Bag 4, Ganeshkhind, Pune 411 007, alongwith a self-addressed envelope (size approximately 30cm × 12.5cm) stamped Rs.18/-.

Mathematics: The Registrar, Mehta Research Institute of Mathematics and Mathematical Physics, Chhatnag Road, Jhusi, Allahabad 211 019, alongwith a self-addressed envelope (size approximately 30cm × 12.5cm) stamped Rs.9/-.

Theoretical Computer Science: The Chief Administrative Officer, The Institute of Mathematical Sciences, CIT Campus, Tharamani, Chennai 600 113, alongwith a self-addressed envelope (size approximately 30cm × 12.5cm) stamped Rs.9/-.

Important Dates

Request for application form should reach by **November 30, 1999.**

Completed application form should reach by **December 15, 1999.**

The JEST for Physics/Theoretical Computer Science will be held on
Sunday, February 6, 2000.

