

JOINT ENTRANCE SCREENING TEST - 2022

For Ph.D. Programmes in Physics/Theoretical Computer Science/Computational Biology /Neuroscience

Sunday March 13, 2022, from 10.00 a.m. to 1.00 p.m.

Test Centres

Ahmedabad, Allahabad, Aligarh, Amritsar, Bengaluru, Bardhaman, Bhubaneswar, Bhopal, Chandigarh, Chennai, Delhi, Goa, Guwahati, Indore, Hyderabad, Jaipur, Kanpur, Kharagpur, Kolkata, Kochi, Madurai, Mangalore, Mumbai, Nainital, Nagpur, Patna, Pune, Raipur, Roorkee, Sambalpur, Silchar, Siliguri, Srinagar, Thiruvananthapuram, Udaipur, and Visakhapatnam.

Apply online through <https://www.jest.org.in> from December 13, 2021 to January 18, 2022.

The Science & Engineering Research Board (SERB) (statutory body established through an Act of Parliament) recognized JEST as a National Eligibility Test sponsored programmes/projects vide their Office Memo No. SB/S9/Z-01/2015. Qualifying in JEST does not entitle an applicant to get a Research Fellowship. Using the JEST results, each institute will call a limited number of candidates for further selection depending on their requirements.

 Aryabhatta Research Institute of Observational Sciences, Nainital Astronomy and Astrophysics, Atmospheric Physics.	 Bose Institute, Kolkata Atmospheric Sciences, Biophysics, Complex systems and networks, Condensed matter physics and materials science, High energy Physics and Astroparticle physics, Quantum physics and Quantum information, Nuclear and radiation physics.	 Indian Institute of Astrophysics, Bengaluru Astronomy & Astrophysics, Astronomical Instrumentation, Atomic physics.	 International Centre for Theoretical Sciences, TIFR-Bengaluru Astrophysical Relativity, Data Assimilation & Dynamical Systems, Statistical Physics & Turbulence, String Theory.	 Inter-University Centre for Astronomy and Astrophysics, Pune All areas of Astronomy & Astrophysics including Ground and Space-based Instrumentation and Observations, Solar physics, Extragalactic astronomy, High energy astrophysics, Gravitational waves, Theoretical and Computational astrophysics, Large-scale structure, Gravitation and Cosmology.
 Indian Institute of Science, Bengaluru Condensed matter physics (Experiments & Theory), Astronomy & Astrophysics (Theory), Atomic & Molecular physics (Experimental), Bio-crystallography & Bio-informatics, & High energy physics (Theory).	 Indian Institute of Science Education and Research, Berhampur Condensed matter physics (Theory and Experiment), Electronic Materials & Devices, High energy physics (Theory, Phenomenology, Experiment), Nuclear Structure, Photonics, Quantum Theory, Quantum Information.	 Indian Institute of Science Education and Research, Bhopal Condensed matter physics (Theory and Experiment) Soft matter physics (Theory), Biophysics, Laser plasma interactions, Ultrafast physics (Experiments), Astrophysics and Cosmology, High energy physics (Theory, phenomenology, experiment), Nonlinear optics, Atomic & Molecular physics (Theory & Experiment).	 Indian Institute of Science Education and Research, Kolkata Condensed matter physics, Field Theory, Classical & Quantum Gravity, Cosmology, Solar Science, High Energy Physics, Nonlinear Dynamics, Statistical Physics, Soft Matter, Optics & Spectroscopy, Atomic physics, Biophotonics, Spintronics, Nanoscience, NMR, Quantum Information, Biological Physics and Complex Systems, Molecular Physics and Imaging Spectroscopy.	 Indian Institute of Space Science and Technology, Thiruvananthapuram Astronomy & Astrophysics, Atmospheric sciences, Applied & Adaptive optics, Atomic and Molecular physics, Condensed matter physics, Nanotechnology, NMR of materials and other systems, Nonlinear dynamics, Photonics, Quantum information and Statistical Physics.
 Indian Institute of Science Education and Research, Mohali Quantum Information (Experiment and Theory), Complex systems & Networks, Theoretical Astrophysics & Cosmology, Particle Physics and Field Theory, Statistical physics, Quantum thermodynamics, Condensed Matter (Theory and Experiment), NMR-Methodology, Ultra-fast Physics, low temperature physics.	 Indian Institute of Science Education and Research, Pune Condensed matter physics, Computational material science, Nanotechnology Atomic Physics & Quantum Optics, Nonlinear dynamics. Astrophysics, Particle physics and Field theory, Solar & Plasma physics, Quantum information processing, Soft matter.	 Indian Institute of Science Education and Research, Thiruvananthapuram Experimental: Magnetism, Superconductivity, Nanoscience, Photonics, Semiconductor Physics, Surface sciences, Nanoscale plasmonics, Ultrafast spectroscopy, Nonlinear optics; Theory: Cosmology, Quantum information, Statistical physics, Condensed matter, String theory & Nonlinear dynamics.	 National Brain Research Centre, Gurgaon Molecular, Systems, Computational, Cognitive & Translational Neurosciences. Neurocomputing, Neuroinformatics, Neuroimaging, Neurophysiology and Functional connectomics.	 National Centre for Radio Astrophysics, TIFR-Pune Astronomy & Astrophysics.
 Indian Institute of Space Science and Technology, Tirupati Theoretical Astrophysics, Observational Astronomy, Experimental and Theoretical Condensed Matter Physics, Experimental and Theoretical Soft Matter Physics, Nonlinear dynamics and complex networks, Experimental High Energy Physics, Atomic and Molecular Physics, Non equilibrium statistical Physics and active matter, Optics and Opto-electronics.	 S.N. Bose National Centre for Basic Sciences, Kolkata Astrophysics & Cosmology, Chemical & Biological physics, Condensed matter physics & material science, High energy physics and Quantum field theory, Mathematical physics, Nanosciences, Quantum optics & quantum information, Statistical physics, Complex system.	 Jawahar Lal Nehru Centre for Advanced Scientific Research, Bengaluru Experimental & Theoretical condensed matter physics, Biophysics, Advanced electron microscopy, Statistical mechanics, Materials science & Soft condensed matter.	 Tata Institute of Fundamental Research, Mumbai Astronomy & Astrophysics, Condensed matter physics & material science, High energy physics, Nuclear & Atomic physics, Theoretical physics.	 TIFR Centre for Interdisciplinary Sciences, TIFR-Hyderabad Condensed matter physics & materials science of nonequilibrium, Soft & living matter, Fluid dynamics, Intense laser-matter interactions, Computational physics, Statistical physics, NMR of Biophysical & other systems.
 Physical Research Laboratory, Ahmedabad Theoretical physics, Astronomy & Astrophysics, Solar physics. Space & Atmospheric sciences, Planetary science, Geophysics, Atomic & molecular physics & Optical physics.	 Raman Research Institute, Bengaluru Astronomy & Astrophysics, Light & Matter Physics, Soft Condensed Matter and Theoretical Physics. Radio & X-ray Astronomy, Signal Processing, Imaging and Instrumentation. Ultrafast phenomena, Liquid Crystals, Soft Materials & Active Systems, Physics in Biology, Classical and Quantum Gravity, Statistical Physics and Stochastic Processes.	 Tata Institute of Fundamental Research, Mumbai Astronomy & Astrophysics, Condensed matter physics & material science, High energy physics, Nuclear & Atomic physics, Theoretical physics.	 TIFR Centre for Interdisciplinary Sciences, TIFR-Hyderabad Condensed matter physics & materials science of nonequilibrium, Soft & living matter, Fluid dynamics, Intense laser-matter interactions, Computational physics, Statistical physics, NMR of Biophysical & other systems.	 UGC-DAE Consortium for Scientific Research, Indore Condensed Matter Physics; thin films; electron, optical, X-ray spectroscopies; scanning probe microscopies; Positron annihilation; Raman & Mössbauer spectroscopy; XMCD & spectroscopy with synchrotron; Neutron diffraction; Experimental Nuclear Physics: γ -ray Spectroscopy and heavy ion reaction.
 Constituent Institutes of Homi Bhabha National Institute, Mumbai A Deemed University	 Harish-Chandra Research Institute, Allahabad Theoretical physics and Astrophysics.	 Indira Gandhi Centre for Atomic Research, Kalpakkam Solid state phase transformations, Superconductivity, Structure & dynamics of soft condensed matter, Computational materials science, Accelerator-based irradiation induced phenomena, Low dimensional systems, Physics of interfaces, Nano-materials, Thin films technology & Theoretical physics.	 The Institute of Mathematical Sciences, Chennai Theoretical Physics, Theoretical Computer Science & Computational Biology.	 Institute of Physics, Bhubaneswar Physics (Condensed matter, Nuclear and High energy physics) & Accelerator-based research.
 National Institute of Science Education and Research, Bhubaneswar Experimental and theoretical condensed matter physics, experimental and theoretical high energy physics, string theory, cosmology & astrophysics, non-linear and quantum optics, quantum information.	 Raja Ramanna Centre for Advanced Technology, Indore Lasers & their applications, Laser plasma interaction, Cold atom physics, Condensed matter physics, Superconductivity & magnetism, Crystals & Thin Films, Nanomaterials & applications, Non-linear & Ultrafast Optical studies, Beam physics and Free electron laser.	 Saha Institute of Nuclear Physics, Kolkata Condensed matter physics (Theory & Experiment), Nuclear physics (Theory & Experiment), High energy physics (Theory & Experiment), Relativistic heavy ion collisions & QCD phase transition (Theory & Experiment), Astroparticle physics, Cosmology, Quantum gravity, String theory, Mathematical physics, Surface science & Plasma physics.	 Institute for Plasma Research, Gandhinagar Fundamental and applied Plasma Physics Research involving theory & experiments on magnetic confinement fusion plasma, complex/dusty plasma, industrial plasma applications including plasma material processing; laser produced plasma, laser plasma interaction, radio-frequency plasma applications etc.	 Variable Energy Cyclotron Centre, Kolkata Accelerator physics, Condensed matter physics & materials science, Nuclear physics (Experiment and Theory), Relativistic heavy ion collisions & QCD Phase transition (Experiment and Theory).

Eligibility Criteria

M.Sc, Integrated Ph.D.: B.Sc. in physics/mathematics; Regular Ph.D.: M.Sc in physics/ applied-physics; B.Tech./B.E./M.E./M.Tech./4 year B.S./M.C.A. may also be considered for M.Sc and Ph.D (integrated and regular) programmes in some institutes. Please check the websites of individual institutions for further details. Students in the final year of these courses are also eligible to appear for JEST 2022.

Application through email or by post will not be accepted.

Application Fee: Rs. 800/- (Rs. 400/- for Female and SC/ST candidates).

For further information please visit JEST website: <https://www.jest.org.in>