

Indian Institute of Technology Indore
Simrol Campus, Khandwa Road, Indore – 453552
Discipline of Astronomy, Astrophysics and Space Engineering
Rolling Advertisement for Admission to Ph.D. Programme

IIT Indore is an institution of national importance and is ranked highly in both research and teaching. According to the World University Rankings 2020 by the Times Higher Education IIT Indore is ranked 3rd overall amongst all Institutes of India.

Research Areas:

Discipline of Astronomy, Astrophysics and Space Engineering at IIT-Indore focuses on a range of interdisciplinary research topics related to astronomy and space science and engineering studies. It is a unique discipline among all IITs. It offers a dedicated platform to pursue research in astronomy and space science and engineering and related areas. Current research areas include:

Observational and Computational Cosmology	Radio Astronomy Instrumentation
Galaxy Clusters and Large Scale Structures	Space Weather and Ionosphere
Computational Astrophysics	Star and Planet Formation
Neutron Stars, Pulsars and Black Holes	Navigation, Spacecraft and Payload Control
Transients	The Galaxy and Interstellar Medium
Machine Learning and Big Data	Remote Sensing and RADAR
Satellite Communication	Signal and Image Processing
Radio and X-ray Observations	Gamma-ray Astronomy

Our faculty members are actively involved in international mega-science project the **Square Kilometre Array (SKA)**, **PLUTO code and Navigation with Indian Constellation (NavIC)** related research. Our faculty members and students are extensively using national/international facilities like the **ASTROSAT, LOFAR, uGMRT, VLA, ATCA, SWIFT, NuStar, FACT, MAGIC, NICER, XMM-Newton, Chandra X-ray Observatory, Cherenkov Telescope Array (CTA), Fermi-LAT, IceCube Neutrino Observatory, Himalayan Chandra Telescope (HCT)** and will be actively involved in upcoming projects e.g. the **Thirty Meter Telescope (TMT), the James Webb Space Telescope (JWST), EUCLID, SEAMS, Daksha, MACE and Aditya-L1 mission**. The department offers the M.Sc. and Ph.D. degrees as well as a minor in Astronomy supporting a dynamic and rapidly growing community interested in Space Research and Applications. The research activities and experimental facilities have been well supported by various extramural research and infrastructure grants both by National and International funding agencies.

Applicants are strongly advised to visit the profiles of the faculty members at http://people.iiti.ac.in/~astro/beta_astro/?page_id=24 before applying for the PhD programme.

Categories of Admission:

Please refer to the main PhD Advertisement of the Institute available at <http://academic.iiti.ac.in/phdadvt.php> .

Eligibility Criteria:

Please refer to the main PhD Advertisement of the Institute available at <http://academic.iiti.ac.in/phdadvt.php> .

Application Procedure:

PhD Admission in DAASE takes place in two stages:

- 1) Based on the application shortlisted candidates will be invited for the Entrance Examination.**
- 2) Candidates who will qualify the Entrance Examination will be notified to attend the Interview.**

Please note that this is a rolling advertisement.

Tentative dates for next round round of the Entrance Exam and Interview: 21-22 October 2019.

Shortlisted candidates for this round will be notified by email on or before 14 October 2019.

Candidates must apply **ONLINE** through our website (<https://academic.iiti.ac.in:8443/nregistrationdept.jsp>). **This is a rolling advertisement. All applications received by 13 October 2019 will be considered for this round of Examination and Interview. Any application received after this date will automatically be considered for the next round.**

Application Fee: Please refer to the main PhD Advertisement of the Institute available at <http://academic.iiti.ac.in/phdadvt.php> .

Supporting Documents: Please refer to the main PhD Advertisement of the Institute available at <http://academic.iiti.ac.in/phdadvt.php> .

Motivated students with outstanding academic performance in relevant Science and Engineering disciplines are desirable.

All shortlisted applicants are required to carry one set of signed hard photocopies of all the required supporting documents (this includes the printed version of the application form, application fee payment receipt, two unsigned copies of recent photographs, all relevant certificates, hand written Statement of Purpose (SOP), results/score cards/rank cards of the relevant qualifying exams and any other documents necessary to establish the claims made by them in the application as per the main PhD advertisement of the Institute) along with the originals when they arrive for the written test and the interviews.

Recommendation Letters: The eligible candidate should also arrange to send **TWO** letters of recommendation (in the specified format available in the application portal) from the referees listed in the application form should be sent directly to both the emails: dpzcastronomy@iiti.ac.in and astro-office@iiti.ac.in before the date of the interview.

For any queries please contact:

Dr. Suman Majumdar (DPGC Convener DAASE) ; Dr. Abhirup Datta (Head, DAASE)
Discipline of Astronomy, Astrophysics and Space Engineering
Indian Institute of Technology Indore,
Khandwa Road, Simrol
Indore 453552

Email: dpzcastronomy@iiti.ac.in; astro-office@iiti.ac.in; hodastronomy@iiti.ac.in