

IUCAA – NCRA Admission Test (INAT – 2009)

Application Form for Research Scholarship

No.

For office use

1. Full Name (In CAPITAL letters): _____

2. Sex: Male / Female

3. Date of Birth: _____

4. Address for Communication (till July 2010):

_____, PIN: _____

**Affix your recent
passport size
photograph here,
and sign on the
photograph.**

Phone/Mobile No.: _____, e-mail: _____

5. Record of examinations. Enter the last examination for your final degree, even if results are not yet known:

Name of the Examination and Year	Name of the School/College/University	Name of the Affiliating Board/University	Science Subjects and Percentage of Marks or Grade	Overall Grade/Class
Class X				
Class XII				
Bachelor's Degree (final Year) Please specify B.Sc./B.E./B.Tech.				
M.Sc, first year				
M.Sc. final year				
Any other qualification(s)				

6. If you have completed your M.Sc./B.E./B.Tech./M.E./M.Tech. in 2009 or earlier, state what you have been doing since then.
7. Have you applied to either IUCAA or NCRA in any previous year for our Research Scholar/ Research Trainee/VSP/VSRP/STP Programmes? YES / NO. If yes, please give details.

8. Are you interested in

Experiments

Theory

Both

9. Names and addresses of TWO referees, who have agreed to send us your Assessment Forms (Please see instructions below):

1. _____ 2. _____

10. Please answer (in less than 100 words total) the following questions on a separate sheet of paper:

- (a) What are the subjects/topics that interest you most?
- (b) What project/research work (if any) have you done before?
- (c) Have you received any awards, scholarships, etc.?
- (d) If you have taken GATE/GRE/UGC/CSIR NET, what are your scores/result?
- (e) Any other information that you feel is relevant.

11. How did you come to know about INAT – 2009? Please tick appropriately.

(a) Newspaper (Name of the paper _____) (b) Poster (c) Friend/Teacher

Date: _____ Signature: _____

Instructions

Complete this Application Form, and give the two enclosed Assessment Forms, and two extra envelopes (one each) to two referees (teachers, projects guides or other academics who know you well) mentioned in item 9. The referees should complete the Assessment Forms, put it in the envelope, seal, sign across the flap, and give to the candidate. The completed Application Form, the sealed envelopes, and the completed Admit Letter should be sent together to: The Academic Coordinator, INAT – 2009, National Centre for Radio Astrophysics, Tata Institute of Fundamental Research, Pune University Campus, Post Bag 3, Ganeshkhind, Pune 411 007, Maharashtra, to reach by October 05, 2009.

Please do not send any copies or originals of your mark sheets or certificates.

<p>Inter-University Centre for Astronomy and Astrophysics (IUCAA) (An Autonomous Institution of the University Grants Commission) Pune University Campus, Post Bag 4 Ganeshkhind, Pune 411 007, Maharashtra. Web : http://www.iucaa.ernet.in/~inat Phone : (020) 25604100, Fax (020) 25604699 E-mail : vch@iucaa.ernet.in</p>	<p>National Centre for Radio Astrophysics (NCRA) Tata Institute of Fundamental Research (TIFR) Pune University Campus, Post Bag 3 Ganeshkhind, Pune 411 007, Maharashtra. Web : http://www.ncra.tifr.res.in/~inat Phone : (020) 2571 9111 / 2571 9000, Fax : (020) 2569 2149 / 2569 7257 E-mail : res@ncra.tifr.res.in</p>
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IUCAA – NCRA Admission Test (INAT – 2009)

Assessment Form for Research Scholar

Application No.

For office use

Name of the applicant (in CAPITAL letters): _____

Dear Sir/Madam,

The above student has applied for a research scholarship at IUCAA and NCRA, which are leading Astronomy and Astrophysics institutes in India. Research Scholars are expected to do original research work leading to a Ph.D. degree. The form has been designed to help us evaluate the applicant's aptitude for a career in research. Please do not hesitate to express your frank opinion. Low markings under some headings may be appropriate even for good applicants. You should leave blank any entry, which you think you cannot judge. Your assessment will be treated confidential.

After your assessment, please put this form in an envelope, seal, sign across the envelope flap and give it to the candidate to send to: **The Academic Coordinator, INAT – 2009, National Centre for Radio Astrophysics, Tata Institute of Fundamental Research, Pune University Campus, Post Bag 3, Ganeshkhind, Pune 411 007, Maharashtra, to reach by October 5, 2009.** Thank you very much for your help in our admission process.

Sincerely,

IUCAA/NCRA Admissions Committee

1. How well do you know the applicant: Very well / Fairly well / Not so well
2. Duration for which you have known the applicant: _____
3. The capacity in which you have known the applicant:
Under-graduate student / Post-graduate student / Other (Please specify)
4. Please mark the appropriate column. (You need not mark all of these if you do not know, but only those where you have direct knowledge).

	Outstanding (Top 5%)	High (Top 5 – 10%)	Average (Top 10 – 20%)	Low (Below top 20%)
Motivation for doing research				
General scientific knowledge				
Mathematical skill				
Experimental skill				
Interest in theory/experiment				
Capacity to do hard work				
Capacity for independent thinking				
Perseverance				
Ability to work in a team				

5. What is your overall recommendation/ranking of the applicant of all students you have come across?

Top 5% / Top 5 - 10% / Top 10 - 20% / Below top 20%.

6. (a) List, up to three main strengths of the applicant (to the best of your knowledge)?

(b) List, up to three main weaknesses of the applicant (to the best of your knowledge)?

7. Any special subject (experimental or theoretical) that you think the applicant knows well.

8. Would you be happy to have the applicant as your own Ph.D. student? Yes / No.

9. If you are recommending more than one student, please arrange them as the best, second best, etc.

10. If you think that the candidate's potential is much above his/her examination marks, and if you feel the candidate should still be invited to take the admission test, please explain briefly.

Your Name	
Designation	
Affiliation	
Address	
E-mail address and phone No.	
Signature with date	

Confidential

IUCAA – NCRA Admission Test (INAT – 2009)

Assessment Form for Research Scholar

Application No.

For office use

Name of the applicant (in CAPITAL letters): _____

Dear Sir/Madam,

The above student has applied for a research scholarship at IUCAA and NCRA, which are leading Astronomy and Astrophysics institutes in India. Research Scholars are expected to do original research work leading to a Ph.D. degree. The form has been designed to help us evaluate the applicant's aptitude for a career in research. Please do not hesitate to express your frank opinion. Low markings under some headings may be appropriate even for good applicants. You should leave blank any entry, which you think you cannot judge. Your assessment will be treated confidential.

After your assessment, please put this form in an envelope, seal, sign across the envelope flap and give it to the candidate to send to: **The Academic Coordinator, INAT – 2009, National Centre for Radio Astrophysics, Tata Institute of Fundamental Research, Pune University Campus, Post Bag 3, Ganeshkhind, Pune 411 007, Maharashtra, to reach by October 5, 2009. Thank you very much for your help in our admission process.**

Sincerely,

IUCAA/NCRA Admissions Committee

1. How well do you know the applicant: Very well / Fairly well / Not so well
2. Duration for which you have known the applicant: _____
3. The capacity in which you have known the applicant:
Under-graduate student / Post-graduate student / Other (Please specify)
4. Please mark the appropriate column. (You need not mark all of these if you do not know, but only those where you have direct knowledge).

	Outstanding (Top 5%)	High (Top 5 – 10%)	Average (Top 10 – 20%)	Low (Below top 20%)
Motivation for doing research				
General scientific knowledge				
Mathematical skill				
Experimental skill				
Interest in theory/experiment				
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Capacity for independent thinking				
Perseverance				
Ability to work in a team				

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Top 5% / Top 5 - 10% / Top 10 - 20% / Below top 20%.

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(b) List, up to three main weaknesses of the applicant (to the best of your knowledge)?

7. Any special subject (experimental or theoretical) that you think the applicant knows well.

8. Would you be happy to have the applicant as your own Ph.D. student? Yes / No.

9. If you are recommending more than one student, please arrange them as the best, second best, etc.

10. If you think that the candidate's potential is much above his/her examination marks, and if you feel the candidate should still be invited to take the admission test, please explain briefly.

Your Name	
Designation	
Affiliation	
Address	
E-mail address and phone No.	
Signature with date	

IUCAA – NCRA Admission Test (INAT – 2009)

(For Research Scholarship (to do Ph.D.) in Astronomy and Astrophysics, and Physics)

IUCAA – NCRA Admission Test (INAT – 2009) is being conducted to select candidates for research scholarship (to join Ph.D. Programme) at Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, or National Centre for Radio Astrophysics of the Tata Institute of Fundamental Research (NCRA – TIFR), Pune.

Details of the Admission Test:

Day and date of written test	Wednesday, December 16, 2009
Time to report	09:00 hours
Place to report	Chandrasekhar Auditorium IUCAA, Pune University Campus Ganeshkhind, Pune 411 007 Maharashtra
Date of interviews (only to selected candidates)	December 16, and/or 17, 2009

Nature of the Written Test:

The test will be of TWO hours duration. The question paper will contain THREE sections, (Section A in Basic Mathematics, and Basic Physics; Section B in Advanced Physics; and Section C in Electronics) and each section will contain FIFTEEN objective type questions, with multiple answers, in which one of the answers will be correct. The candidates have to mark the correct answer. Candidates are expected to answer about THIRTY questions. For a right answer, there will be +3 (plus three) marks, and for a wrong answer, there will be –1 (minus one) mark. M.Sc./B.Sc. (Physics/Astronomy/Applied Mathematics) candidates are encouraged to attempt Sections A and B, and M.Sc./B.Sc. (Electronics) and B.E./B.Tech./M.E./M.Tech. candidates are encouraged to attempt Sections A and C. However, candidates may also attempt all questions. Based on their written test performance, a limited number of candidates will be invited for interviews, which are to be conducted on December 16, and/or 17, 2009. Final selection is based on the scores in written test and interviews. Candidates selected by either IUCAA or NCRA are expected to join in August 2010, after satisfactory completion of their qualifying examination.

Travel and Stay:

Outstation candidates will be paid one and one third times the train/bus fare by sleeper second class (NOT air conditioned) from their place of residence (as given in the INAT – 2009 Application Form) to Pune and back by the shortest route, as well as a halting allowance for each day of stay for the interviews. Outstation walk-in candidates, who are shortlisted for the interviews will also be paid travel support as above.

Limited accommodation, only for candidates who will appear for the Admission (written) Test, may be available on IUCAA/NCRA campuses at a nominal charge. Those who wish to avail of this accommodation should clearly inform their requirement of accommodation, before November 28, 2009, to The Academic Coordinator, INAT – 2009, National Centre for Radio Astrophysics, Tata Institute of Fundamental Research, Pune University Campus, Post Bag 3, Ganeshkhind, Pune 411 007, Maharashtra (E-mail: res@ncra.tifr.res.in). Accompanying persons will have to find accommodation elsewhere (see the attached list of lodges and hotels in Pune, close to IUCAA/NCRA, with approximate charges). Candidates (and accompanying

persons) may have meals in the IUCAA/NCRA Canteens on payment, on the day(s) of the test and interviews.

The best mode of transport to reach IUCAA/NCRA from the Pune railway station or bus stand is an autorickshaw. The fare is as per the tariff card with the driver. During the day time, the autorickshaw fare from Pune railway station to IUCAA/NCRA will be about Rs. 95/- to 100/-.

What to Bring and Not to Bring:

Of course, all candidates invited to take the IUCAA – NCRA Admission Test (INAT – 2009) should bring the Admit Letter. For the written test, the candidates should bring pen, pencil (HB), eraser, and a simple mathematical calculator. At the time of interviews, the candidates are requested to bring all original mark sheets (starting from Class X) and other relevant certificates. In the test and interview halls, the candidates should NOT bring pagers, mobile phones, digital diaries, etc.

Address for Response:

Post	The Academic Coordinator, INAT – 2009, National Centre for Radio Astrophysics, Tata Institute of Fundamental Research, Pune University Campus, Post Bag 3, Ganeshkhind , Pune 411 007, Maharashtra
E-mail	res@ncra.tifr.res.in
Phone	2571 9111 / 2571 9000
Fax	(020) 2569 7257 / 2569 2149

List of a few Lodges and Hotels close to IUCAA/NCRA

No.	Name and Address	Phone Numbers (City code is 020)	Rates
1.	Hotel Sheetal 1180, Fergusson College Road Pune, 411 005	25535149 25535165	Single: Non-AC Rs. 1050, AC Rs. 1350 Double: Non-AC Rs. 1200, AC Rs. 1500 + Taxes (All Attached Bath)
2.	Hotel Swaroop 10, Prabhat Road Pune 411 004	25672662 25672663	Single: Non-AC Rs. 1000, AC Rs. 1500 Double: Non-AC Rs. 1100, AC Rs. 1600 + Taxes (All Attached Bath)
3.	Hotel Royal 1170/3, Jangili Maharaj Road Pune 411 005	25535100 25535775	Single: Rs. 1100 – 1200 Double: Rs. 1200 – 1400 + Taxes (All Attached Bath)
4.	Hotel Hill View BMCC Road Deccan Gymkhana Pune 411 004	25652096	Single: Non-AC Rs. 1450, AC Rs. 1650 Double: Non-AC Rs. 1650, AC Rs. 1850
5.	Hotel Asish 1198, Fergusson College Road Shivajinagar, Pune 411 004	25536541	Single: Non-AC Rs. 2000, AC Rs. 2600 Double: Non-AC Rs. 2200, AC Rs. 2800 + Taxes
6.	Hotel Park View 1194/22 – A, Ghole Road Deccan Gymkhana Pune 411 005	25521818	Single: Non-AC Rs. 900, AC Rs. 1100 Double: Non-AC Rs. 900, AC Rs. 1100
7.	Hotel Shreyas 1242/B, Apte Road Pune 411 004	25531963 25532023	Single: Non-AC Rs. 1300, AC Rs. 1600 Double: Non-AC Rs. 1400, AC Rs. 1700
8.	Hotel New Sandeep Lodge 1139/B, Fergusson College Road Shivajinagar, Pune 411 016	25652207	Single: Non-AC Rs. 700 Double: Non-AC Rs. 600 (Common Bath) AC rooms unavailable.