NATIONAL INSTITUTE OF TECHNOLOGY
JAMSHEDPUR – 831014 (JHARKHAND)

NOTIFICATION FOR ADMISSION TO Ph. D PROGRAMMES

Applications are invited from eligible candidates for admission to Ph. D. Programmes for the session 2012 – 2013. The detail information is available in our website **www.nitjsr.ac.in**.

Candidates can apply for admission to Ph. D. through the downloaded application form only.

Completed application along with a crossed D.D. for Rs. 1000/- (Rs. 500/- for SC/ST) drawn in favour of Director, NIT, Jamshedpur payable at SBI RIT Jamshedpur (Code – 1882) should reach Prof. In-charge (Academic), PG & Research , NIT, Jamshedpur, P.O : RIT, Jamshedpur – 831014, Jharkhand State, on or before 09.07.2012.

Chairman, PG Admission - 2012

Admission To Ph. D. PROGRAMME

Fields of Specialization: Broad fields of research in the different departments are as mentioned below:

1). **Metallurgical & Materials Engg :** Iron and steel making, Physical Metallurgy, Corrosion Engineering, Material Science, Thermodynamics, Composite Materials.

2). **Mechanical Engg :** Heat & Mass Transfer, CFD, Fluid Flow, Solar Energy, Integrated Energy System, Gas Turbine, Power Engineering, Renewable Energy, I.C. Engines. Combined Power Plant cycles, Energy Management, Refrigeration & Air Conditioning, Mechanism & Machine Theory, Vibration, Tribology, CAD / CAM, TPM, Value Engineering,

3). **Civil Engineering :** Concrete Technology, Structural Mechanics – Structural Stability – Static & Dynamic, Vibration of Plates and Shells, Composite Plates and Shells, Dynamics of Particulate Media – Response of Transient Load, Earthquake Engineering.

4). **Electrical & Electronics Engg. :** Control System, Electro Magnetic Fields, Electrical Machine, Power System, Digital Instrumentation & Measurement, Modeling of Transducers & their Performance Evaluation, Process Instrumentation & Control, Power System Protection, Power Electronics and Drives, Non-conventional Electrical Energy System.

5). **Electronics & Communication Engg. :** VLSI Design & Embedded system, Digital Signal Processing, Communication System, Industrial Electronics and Control, Soft Computing.

6). **Production & Industrial Engg.:** CAD / CAM, Industrial Engg., Energy Management, Production Management.

7). **Mathematics:** Approximation Theory, Operation Research, Statistics and Probability, Special Function**.**

8). **Computer Application:** Software Engineering, Software Quality, Software Reliability, Software Safety, Information Technology, Optimization Technique, Supply Chain Management.

1. **Eligibility**

For Admission to Ph. D. Programme: The minimum qualification is any degree in appropriate field of specialization as given below:

(A). For Engineering Disciplines:

    i. M.Tech / M.Sc. (Engg.) / MS in appropriate Branch of Engg.
                 OR
    ii. B.Tech. / B.Sc. (Engg.) in appropriate Branch of Engg.

(B). For Computer Applications: MCA / M.Tech. in Engineering. or MBA with science/Technical background

(C) For Mathematics :   M.Tech. / M.Sc. in Mathematics

All candidates seeking admission to the Ph. D. Programme shall have to possess at least 60% marks (or a CGPA of 6.5 in a 10 point scale) in the qualifying examination.

2. **Selection Procedure**

Candidates fulfilling eligibility criteria mentioned above will be selected for admission to the program on the basis of weightage as given below:

a). Overall academic performance (to be fixed by the institute) - 70%

b). Test and Interview conducted by Department - 30%

Candidates selected for admission shall be required to deposit institute fee at the time of admission.

A sponsored candidate will be required to submit the following documents in addition to the requisite fee at the time of joining the Ph.D. Programme.

a). Passing Certificate of the qualifying examination.

b). Certificates from the employer to the effect.

i). No Objection Certificate (N.O.C.) from the employer to this effect.

ii). Certificate of working experience (for at least 2 yrs).

iii). A document regarding grant of leave for the required period.

A self supporting candidate in service shall produce a relieving certificate from his/her employer at the time of admission.

3. **Stipend**

Institute Research Scholarships/Fellowships will be given to candidates with M. Tech. Degree or with B. Tech./M.Sc./MCA/MBA with GATE score at the rate indicated. However, self financing and sponsored candidates will not get any Research Fellowship.

Qualification	1st & 2nd year	3rd & 4th year
M. Tech.	Rs. 18,000/- per month	Rs. 20,000/- per month
B. Tech./M.Sc./MCA/MBA	Rs. 16,000/- per month	Rs. 18,000/- per month

4. **Residential requirement:** Normally a candidate admitted to the Ph. D. Program will be required to stay in the institute till he / she completes all assigned courses and research work and submits his / her thesis. The minimum residential requirement shall, however be one year for a sponsored candidate who has completed the course work and at least a part of the research work and has been registered for the Ph. D. Degree. This facility is not available to self financed (Non Sponsored) students or students getting fellowship. Withdrawal from the study is to be taken before leaving the institute.

5. **Hostel Facilities:** There are severe shortages of accommodation due to increase intake of students of UG programmes. There for Accommodation will not be provided to Ph.D. students of the session 2012-2013.

6. **Registration for Ph. D:** A candidate is required to give a seminar talk on the topic of his research at the end of every semester. A candidate who has been registered for the Ph. D. Program can be permitted to become non-resident on the specific recommendation of the D.S.C. provided the candidate has stayed in the Institute for a minimum period of one year and there is research facility at his work place. The thesis for the Ph. D. Degree must, however, be submitted within the prescribed period.

IMPORTANT DATES

1.	Last date of receiving Application forms	9th July 2012
2	Date of displaying shortlisted & eligible candidates for Test/Interview on Institute Website	16th July 2012
3	Date of Test/Interview	25th July 2012
4.	Date of display of selected candidates for Admission to Ph.D. Program	30th July 2012
5.	Date of admission to Ph.D. program	3rd August 2012

- No separate interview letter/communication will be made to any individual
- Visit Institute website www.nitjsr.ac.in regularly for more details and updates.

HOW TO APPLY FOR ADMISSION TO Ph. D PROGRAMME

The application form and other relevant information for admission to Ph. D. Programmes may be downloaded from the Institute website: **www.nitjsr.ac.in**

Applications form, duly filled in, must contain a crossed Demand Draft for Rs. 1000/- (Rs. 500/- for SC/ST candidates) towards Application fee drawn in favour of **Director, National Institute of Technology, Jamshedpur, payable at S.B.I., R.I.T., Jamshedpur (Code N0: 1882)** and should reach Prof. In-charge (Academic), PG & Research, N.I.T., Jamshedpur – 831014, on or before 09.07.2012.

The application form should be accompanied with:

(i). Three recent passport size photographs of the candidate attested by Gazetted Officer/Principal of the college/ Institute last attended.

(ii). Attested copy of certificate of Matriculation or equivalent examination as proof of age of the candidate.

(iii). Attested copy of the mark sheet of all the examinations.

Sponsored candidates should send their applications through their employer.

Incomplete / Incorrect applications will not be considered for admission.

APPENDIX - I

Fee details for Ph. D. Programe:

Sub: Break – up of "Registration fee" for Ph. D.

Sl.No	Description of fee	Fee for 1st Semester	Fee for 2nd Semester onward first semester
1	Tuition Fee	Rs.17,500.00	Rs. 17,500.00
2	Seat Rent	Rs. 500.00	Rs. 500.00
3	Common Room	Rs.100.00	Rs.100.00
4	P. B. F.	Rs. 25.00	Rs. 25.00
5	Examination Fee	Rs. 1250.00	Rs. 1250.00
6	Medical	Rs. 75.00	Rs. 75.00
7	Sports	Rs. 250.00	Rs. 250.00
8	Identity Card	Rs. 40.00	Rs. 40.00
9	Syllabus	Rs. 150.00	Rs. 150.00
10	Library	Rs. 150.00	Rs. 150.00
11	Electric Charge	Rs. 500.00	Rs. 500.00
12	Hostel Maintenance	Rs. 550.00	Rs. 550.00
13	Bus Charge	Rs. 300.00	Rs. 300.00
14	Water Charges	Rs. 325.00	Rs. 325.00
15	Training & Placement	Rs. 350.00	Rs. 350.00
16	Computer Maintenance	Rs. 250.00	Rs. 250.00
17	Cultural Association	Rs. 135.00	Rs. 135.00
18	Registration Charge	Rs. 000.00	Rs. 000.00
19	Grade Card	Rs. 100.00	Rs. 100.00
		Rs. 22,550.00	**Rs. 22,550.00**
20	*Admission Fee (1st Semester)*	**Rs. 200.00**	**Rs. 0.00**
21	*Hostel Admission Fee*	**Rs. 200.00**	**Rs. 0.00**
22	*Development Fund (1st Semester)*	**Rs. 2,000.00**	**Rs. 0.00**
23	*Alumni Association Fee (1st Semester)*	**Rs. 500.00**	**Rs. 0.00**
	CAUTION MONEY (REFUNDABLE)		
24	*Institute Caution Money*	**Rs. 2,000.00**	**Rs. 0.00**
25	*Hostel Caution Money*	**Rs. 500.00**	**Rs. 0.00**
26	*Mess Caution Money*	**Rs. 1,000.00**	**Rs. 0.00**
	Total Rs.	**Rs. 28,950.00**	**Rs. 22,550.00**

The above mentioned fee may be revised at any stage by the Institute. The fee of Rs. 22,550/- is to be deposited in the form of Demand Draft in favour of Director, NIT, Jamshedpur, payable at S.B.I., R.I.T., Branch (Code – 1882).

D/D N0...........   Closing Date   : **09.07.2012**
Date.....   Application Form N0:.............

Amount…

NATIONAL INSTITUTE OF TECHNOLOGY
JAMSHEDPUR – 831014
Application Form for Admission to Ph. D
Academic Session 2012 – 2013

Recent Photo

Name of the Department:…………… ……………..   **Area of Research……………………..**

1. Name of the candidate   :   ……………………………………………….
    (In Block Letters)

2. Father's / Husband Name   :   ……………………………………………

3. Address for Correspondence with e-mail ID :   ……………………………………………
                                                       ……………………………………………
                                                       ……………………………………………
                                                       ……………………………………………

4. Contact No.   :   ……………………………………………

5. Permanent Address   :   ………………………………………….
                                                       ………………………………………….

6. Name of the Guardian (if father is not alive) :   ……………………………………………

7. Guardian's Address   :   ………………………………………….
                                                       ……………………………………………

8. Date of Birth as in Matriculation/
    Higher Secondary Certificates   :   ……………………………………………

9. Do you belong to Schedule Caste/
    Schedule Tribes (If yes, attach certificate) :   ……………………………………………

10. Marital Status   :   ……………………………………………

11. Academic Record starting from matriculation or equivalent :

Degree/Certificate Obtained	University/ Institution	Year of Passing	Marks Obtained	% Marks	Course Duration	Subjects

12.   Qualified GATE Score (enclose copy of score card) :

13.   Any other relevant information   :

DECLARATION BY THE APPLICANT

I………………………………….(name) hereby declare that the entries made by me in this form are correct to the best of my knowledge and belief. I shall abide by the rules and regulations of the Institute in force during the course of my study and understand that the Institute reserves the right to cancel my admission at any stage if the information as furnished here in are found to be incorrect and or my conduct and progress is found unsatisfactory.

Place: ………………………   Date: ………….   Signature of the candidate

DECLARATION BY THE FATHER/GUARDIAN/SPONSORING AUTHORITY

I……………………………………(name) hereby declare that (a) the information given by my Son/Daughter/Ward/Employee is correct and true and (b) in event of my candidate being admitted to the Institute, I undertake to pay regularly all his Institute dues till the completion of his course or training. I also declare that I shall be responsible for the good conduct of my Son/Daughter/Ward/Employee.

Place: ………………………   Signature of the Father/Guardian/Sponsoring authority

Date: ………...

FOR OFFICE USE ONLY

Recommendation of Selection Committee   :

Admitted / Not Admitted   :

            Signature   Signature
Members of Admission Committee   Chairman Admission Committee

D.D. N0. of Application fee :