



राष्ट्रीय प्रौद्योगिकी संस्थान, राउरकेला  
NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

NITR/AC/RES/2021/M/0869

29<sup>th</sup> July, 2021

**POVERTY ALLEVIATION RESEARCH CENTRE (PARC) DOCTORAL RESEARCH ENGAGEMENT PROGRAMME**

**Notice for Admission to PhD Programme in Autumn Semester of AY 2021-22 under POVERTY ALLEVIATION RESEARCH CENTRE (PARC)**

**Poverty Alleviation Research Centre (PARC)** is an interdisciplinary research center dedicated to understand the causes of poverty and its alleviation. It is a first of its kind at NIT Rourkela that brings diverse inter and multi-disciplinary subjects viz. Mathematics, Development Economics, Computer Science and public policy to understand, analyze and address poverty in our society. Applying modern computational techniques such as Artificial Intelligence including deep learning and other machine learning, vast volumes of historical poverty data can be analyzed to understand not only signs of poverty but to detect such signs early. PARC has been established with a generous fund from Mr. Venkata Narasimham Peri, an alumnus of NIT Rourkela. Prof. S. Chakraverty, Professor (HAG), Dept. of Mathematics, NIT Rourkela is the first Chairman and Coordinator of PARC, whereas Mr. Venkata Narasimham Peri, alumnus of NIT Rourkela is the Co-Chairman/ Patron of the Center.

Applications are invited online from eligible candidates for admission to Ph.D. Programme under **POVERTY ALLEVIATION RESEARCH CENTRE (PARC) DOCTORAL RESEARCH ENGAGEMENT PROGRAMME**. Initially there is opening for two (2) PhD students for admission in the Centre in Autumn semester of the Academic Year 2021-22, one each in the Departments of Mathematics and Humanities & Social Sciences.

Sl. No.	Name of the Department	Code	Indicative Broad Area of Research
1	Mathematics	MA	Numerical Analysis/Statistics/ Financial Mathematics/Artificial Intelligence/Machine Intelligence/Soft Computing
2	Humanities and Social Sciences	HS	Economics/ Development Studies/ Statistics

**B. Eligibility Criteria for Ph. D Programme:**

The minimum qualification required for admission to Ph. D Programmes is the following:

- For Sl. No. 1 : M. Sc. in Mathematics/Applied Mathematics/Statistics/ Mathematics and Computing/Operations Research with CGPA 7.0 or 65 percent marks in relevant disciplines.
- For Sl. No. 2: M.A. /M. Sc. in Economics/ Development studies/ Statistics in Social Science with CGPA 6.5 or 60 percent marks or 1<sup>st</sup> class in relevant disciplines.\

In addition to the above eligibility criteria, following additional criteria will also be applicable:-

- a) A candidate should score minimum 60% marks or 6.5/10 CGPA or 1<sup>st</sup> class throughout career to be eligible for admission to Ph. D Programme. The DRC, however, may make one exception (marks <60% or Grade < 6.5/10) at its discretion from among the results of 10<sup>th</sup>, +2, B.Sc. (except qualifying degree) if the candidate has qualified GATE/NET or other national level fellowship tests like DST-INSPIRE, RGNF etc.
- b) Candidates with Economics and Development studies in minimum qualification and Mathematics/statistics in +2 level will be preferred for Sl. No. - 2.
- c) **Desirable Experiences:**
  - i) For Sl. No. 1: Computer software such as MATLAB, PYTHON, R and/or any other Programmemeing languages;
  - ii) For Sl. No. 2: Fieldwork experience, knowledge of SPSS, STATA, PYTHON, Statistics and Econometrics, good English writing skills and report writing.
- d) UGC-NET/JRF, CSIR NET, GATE are desirable but not mandatory.

However, a higher short listing criteria may be set by the Department during scrutiny of applications depending on number and quality of applicants. Therefore, merely satisfying the minimum eligibility criteria does not guarantee a candidate to be called for selection process/interview and mere attending an selection process does not guarantee admission.

### C. Qualifying Degrees and Primary Disciplines for Admission:

Department	Academic Eligibility / Primary Disciplines	Number of Vacancy
Mathematics	M. Sc. in Mathematics/Applied Mathematics/ Numerical Methods/ Statistics/ Mathematics and Computing/Operations Research	One (01)
Humanities & Social Sciences (HS)	M.A. /M. Sc. in Economics/ Development studies/ Statistics	One (01)

Onus of proving a Degree /Specialisation/ Discipline as equivalent with any of the above mentioned Degree / Specialisation / Discipline shall lie with the applicant claiming equivalency. However, decision of the Institute shall be final and binding in this matter.

### D. Notes:

1. Where regular mode of education is available for any Degree/Qualification then Degree/Qualification obtained otherwise than through regular mode, i.e. Distance Learning, Correspondence Course, etc. will NOT be considered for the purpose of admission to Ph. D Programme of the Institute.
2. The final results of the qualifying degree should have been published on the date of admission.
3. There is no relaxation in academic requirement for SC/ST/OBC/PWD applicants, because the minimum academic requirements have been set to meet the basic challenges of the academic Programme.
4. If the evaluation system is in grades, CGPA value will be considered and if the evaluation system is in marks, percentage value will be considered.

5. Selection will be made on the basis of academic records, relevance of qualification, interest on the research area mentioned above and performance of the candidate in test and/or interview. Therefore, merely attending test and/or interview does not guarantee admission.
6. The selected student will have to choose a research topic from the indicative broad area of research mentioned above.

### E. Financial Support:

1. Under this Programme the selected Ph.D. students will be paid fellowship @ Rs. 31,000/- per month by PARC for first two years. After two years, fellowship may be extended subject to the fund availability and satisfactory performance.
2. Payment of fellowship will be effective from date of enrollment (i.e. date of registration to the first semester) or starting date of biometric attendance whichever is later, but will be paid only after submission of all required documents by the scholars.
3. However, fellowship **will NOT be awarded** to candidates above 32 years of age for PhD (35 years for SC/ST, and women candidates with at least one child) on the closing date of receipt of application.
4. The students are required to assist faculty members of their department in teaching and research activity. They may be required to take tutorial and laboratory classes, assist in student projects or other R & D activities as assigned by the HOD/Chairman PARC.

### F. Fee Structure:

Fees to be paid at the time of admission to Ph. D Programme is as follows:-

#	Fee Particulars	Amount
1.	Admission fee (One time)	Rs.2500/-
2.	Tuition fee	Rs.7500/- [ Nil for SC/ST students]
3.	Other fees (Exam., Library, Electricity etc.)	Rs.3000/-
3.	Student activity fee	Rs.2000/-
5.	Hostel Seat Rent	Rs.5000/-
6.	Medical fee	Rs.2000/-
7.	Caution Money (One time) (Refundable if Programme is completed)	Rs.10000/-
8.	Hall Establishment fee	Rs.5000/-
9.	Mess Advance	Rs.19500/-
<b>TOTAL FEES</b>		<b>Rs.56,500/- (Rs. 49,000/- for SC/ST students)</b>

### Notes

1. The above fee is only for the 1st semester. For remaining semesters the approximate fee will be Rs.44,000/- per semester (Rs.36,500 /- for SC/ST students) which is inclusive of Mess dues. However, **the Institute reserves the right to amend the fee structure from time to time, which will be implemented with immediate effect for all students irrespective of the date of admission.**
2. Fee will be paid by the selected students online in the Institute payment portal details of which will be notified along with selection result.

## **Refund of Fee**

If a student is removed or withdraws/leaves himself/herself from the Institute after admission without completing the entire Programme, all fees paid including the caution money deposit will be forfeited by the Institute. Mess advance may be refunded after deduction of dues, if any. This clause is applicable even before formal registration to the 1<sup>st</sup> semester and starting of classes.

## **G. Application Fee and Procedure:**

Interested candidates satisfying the eligibility criteria may submit their **online application at <http://eapplication.nitrkl.ac.in>**. The applicants are advised to:

- a) Read this advertisement and the instructions to fill up the online application form given in the online portal carefully,
- b) Pay non-refundable Application Fee of Rs. 500/- through SBI Collect only. No other mode of payment is acceptable. The applicants has to search SBI COLLECT -> ODISHA -> EDUCATIONAL INSTITUTION -> DIRECTOR NIT ROURKELA -> PhD APPLICATION FEE. Note down the SB Collect Reference Number. Application fee once paid shall not be refunded under any circumstances.
- c) Fill up the online application form and choose studentship category as Project Scholar (JRF/SRF etc.) Enter the SB Collect Reference Number in the appropriate column of Application Fee section and submit the same.

Applicants are **NOT** required to send hard copy of the application form or any other document(s) to NIT Rourkela. However, candidates who will be called for interview will be required to submit signed copy of the application form, a set of photo copies of all certificates at the time of interview. They also need to produce original certificates from HSC onwards for verification.

## **H. Tentative Schedule:**

<b>Sl. No.</b>	<b>Event</b>	<b>Tentative Date</b>
1	Application form will be available in the Institute website for online submission	29.07.2021 (Thursday) to 09.08.2021 (Monday)
2	Publication of result of scrutiny in the website (announcement section)	11.08.2021 (Wednesday)
3	Test and/ Interview (through online mode)	For MA – 13.08.2021 (Friday) For HS – 14.08.2021 (Saturday)
4	Publication of result of Interview in the website	17.08.2021 (Tuesday)
5	Admission (online mode)	20.08.2021 (Friday)
6	Semester Registration	23.08.2021 (Monday)
7	Starting of Class / Research work	23.08.2021 (Monday)

The list of selected candidates will be displayed in our Institute website [www.nitrkl.ac.in](http://www.nitrkl.ac.in) and no postal intimation will be sent to the selected candidates. **The applicants are required to visit the “Announcement” section in the “Home Page” of the Institute website regularly for further updates.**

## I. How to reach the Institute:

Rourkela is located in the Howrah-Mumbai main Train route. Train connections are also available from Bhubaneswar and Ranchi. Night AC/Non-AC bus services are available from all major cities of Odisha (Bhubaneswar/Berhampur/Balasore, etc.). The Institute is located around 8 km. away from the Railway Station and 2 km away from Sector-3 Bus Stop. Usual rate of auto fare at present is Rs.140/- and Rs. 80/-, respectively. App based taxi services are also available from the Railway Station to the campus.

For queries if any, mail to:- **chakravertys@nitrkl.ac.in**

Sd/-

**Deputy Registrar (Academic)**