

# National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

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## Curriculum Vitae

Brief Profile: Dr. Joy Prakash Das is currently working as an Assistant Professor in the Department of Physics, NIT Tiruchirappalli since October 2022. He received his B.Tech degree in Engineering Physics from IIT Guwahati in the year 2013 after which he worked as a Project Engineer in Wipro technologies. Being inclined towards academia, he left the corporate life to join the Ph.D. programme in Physics at IIT Guwahati and received his doctorate in the year 2019. He has one year of post doctorate experience at SNBNCBS from February 2020 to February 2021. He has qualified CSIR NET JRF in Physics (2014) and Mathematics (2017) and has qualified GATE in three subjects, viz., Physics (2015), Mathematics (2016) and Electronics & Communication Engineering (2013). His research interests includes the theoretical study of low dimensional systems using analytical tools like Bosonization and numerical tools like DMRG.



1. Name: Dr. Joy Prakash Das
2. Designation: Assistant Professor
3. Office Address: Room #114  
Department of Physics  
OJAS Building,  
NIT Tiruchirappalli  
Tamil Nadu - 620015
4. Contact number: 7002911614
5. Email (Primary): [joyprakash@nitt.edu](mailto:joyprakash@nitt.edu)  
Email (Secondary) : [jpdas100@gmail.com](mailto:jpdas100@gmail.com)
6. Field(s) of Specialization: Condensed Matter Physics (theory)

### 7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT Tiruchirappalli	Oct 2022	Present
Post-Doctoral Research Associate	S. N. Bose National Center for Basic Sciences	Feb 2020	Feb 2021
Project Engineer	Wipro Technologies	Jul 2013	Feb 2014

## National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

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### 8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	IIT Guwahati	2019	NA	Physics
B. Tech	IIT Guwahati	2013	Dept. Topper	Engineering Physics
H.S.	Assam Higher Secondary Education Council	2009	Distinction (3 <sup>rd</sup> in State)	Physics, Chemistry, Mathematics, Biology, English
H.L.S.C.	Secondary Educational Board of Assam	2007	Distinction (20 <sup>th</sup> in State)	Science, Mathematics, Social Science, English, Assamese

### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To

### 10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Ph.D. student representative	Department of Physics, IIT Guwahati	2016	2017

### 11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2007	State rank holder (20 <sup>th</sup> ) in 10 <sup>th</sup> board examinations	Assam state board
2009	State rank holder (3 <sup>rd</sup> ) in 12 <sup>th</sup> board examinations	Assam state board
2009	Dr. Ambedkar National Merit Award	Dr. Ambedkar foundation
2013	Institute silver medal (Dept. topper)	IIT Guwahati
2017	Institute best poster in Research Conclave, IIT Guwahati	Springer
2017	Best poster award in ICANN, IITG	Royal Society of Chemistry
2017	Second best poster award at SERB school, IITG	SPIE IITG student chapter
2019	Best oral presentation award at NCHSCMP (conference)	Tezpur University
2019	Second best oral presentation award at Research Conclave IITG	IIT Guwahati
2019	Best 3 Minute Thesis Presentation award at Research Conclave IITG	IIT Guwahati

## National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

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### 12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2014	MHRD Fellowship	MHRD	July 2014	Jul 2019

### 13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels
- (iii) Projects guided at Postgraduate level
- (iv) Other contribution(s)

### 14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

### 15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

### 16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International / National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
18-21 Dec 2017	ICANN 2017	International	Paper presenter	IIT Guwahati	IIT Guwahati
10-11 Nov 2017	NAMASTA 2017	National	Speaker	Dibrugarh University	Dibrugarh University
14-16 Mar 2018	PRL Conference on CMP	National	Paper presenter	PRL Ahmedabad	PRL Ahmedabad
27-29 Mar 2018	Recent trends in Cold and Ultra cold matter	International	Paper presenter	IIT Guwahati	IIT Guwahati

**National Institute of Technology, Tiruchirappalli:  
Performa for CV of Faculty/ Staff Members**

04-06 Mar 2019	NCHSCMP	National	Speaker	Tezpur University	Tezpur University
01-19 Dec 2017	SERB school	National	Participant	IIT Guwahati	IIT Guwahati
16-19 Mar 2017	Research Conclave	International	Paper presenter	IIT Guwahati	IIT Guwahati
08-11 Mar 2018	Research Conclave	International	Paper presenter	IIT Guwahati	IIT Guwahati
14-17 Mar 2017	Research Conclave	International	Speaker	IIT Guwahati	IIT Guwahati
17 Oct 2020	Fantastic theses and where to find them	National	Invited speaker	SPIE student chapter IIT Guwahati	IIT Guwahati

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Workshop on 'Simulations in Physics'	Local	27-01-2017 - 28-01-2017	Coordinator	IIT Guwahati

18. Invited Talks delivered

Topic	Date	Inviting Organization
Presenting your research – an underrated essence	17-10-2020	SPIE IITG student chapter

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member )	Organization	Membership No. with date
Lifetime member	Physics Academy of North East (PANE)	LM-346 (14-02-2018)
Ordinary member	SPIE	NA (31-01-2017)

20. Academic Foreign Visits

Country	Duration of Visit	Programme

**National Institute of Technology, Tiruchirappalli:  
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21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor (on 2022)
<u>Joy Prakash Das</u> & Girish S. Setlur	The one step fermionic ladder	Physica E	94	216-230	2017	3.369
<u>Joy Prakash Das</u> & Girish S. Setlur	Ponderous impurities in a Luttinger liquid	Europhysics Letters	123.2	27002	2018	1.958
<u>Joy Prakash Das</u> & Girish S. Setlur	The Quantum Steeplechase	International Journal of Modern Physics A	33.29	1850174	2018	1.475
<u>Joy Prakash Das</u> & Girish S. Setlur	Conductance of inhomogeneous Luttinger Liquids with a finite bandwidth	Physics Letters A	383.25	3149-3161	2019	2.707
<u>Joy Prakash Das</u> , C. Chowdhury & Girish S. Setlur	Non chiral bosonization of strongly inhomogeneous Luttinger liquids	Theoretical & Mathematical Physics, Springer	199.2	736-760	2019	0.685
<u>Joy Prakash Das</u> & Girish S. Setlur	Transport properties of a Luttinger liquids with a cluster of impurities	Physica E	110	39-48	2019	3.369
<u>Joy Prakash Das</u> , C. Chowdhury & Girish S. Setlur	Friedel oscillations and dynamical density of states of an inhomogeneous Luttinger liquid	Physica Scripta	95.7	75710	2020	3.081
Nikhil D Babu, <u>Joy Prakash Das</u> & Girish S. Setlur	Density density correlation function of strongly inhomogeneous Luttinger liquids	Physica Scripta	95.11	115206	2020	3.081

National Institute of Technology, Tiruchirappalli:  
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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number