



## Murshidabad University



**Dr Rajib Mukherjee**  
**Registrar (Acting), Murshidabad University**

<https://msduniv.ac.in/>  
(Since 1st March, 2024)

and

**Associate Professor, Department of Mathematics, Murshidabad University,  
Erstwhile Krishnath College**

### Academic Qualifications

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College/University	Degree
St Xavier's College, Kolkata	BSc
University of Kalyani, Kalyani	MSc
Joint CSIR-UGC (Dec. 2003 & Jun. 2004)	NET UGC JRF (2 times)
Department of Education, HRDG (2003)	GATE, 91.65 Percentile, AIR 109
University of Kalyani, Kalyani	PhD under supervision of <b>Prof. (Dr) Indrajit Lahiri</b>

### Positions held/holding

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- 1 Registrar (Acting), Murshidabad University (since 1st March, 2024)
- 2 Deputy Registrar (Acting), Murshidabad University (08.01.2024 to 27.02.2024)
- 3 Associate Professor, Department of Mathematics, Erstwhile Krishnath College

### Research Interests

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- Number Theory
- Complex Analysis
- General Mathematics

### Research Guidance

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Have already guided/guiding successfully two scholars to publish their research papers in UGC-CARE enlisted journals.

### Projects

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Not yet applied for any central/state funded projects.

## Select List of Publications (only number) □

Journals: 22 (UGC-CARE Enlisted, single authored 09)

Books/Book Chapters: 00

Conference/Seminar Volumes: 00

## Membership of Learned Societies □

Name of the Society	Membership Status
1 Indian Mathematical Society (IMS)	Life member
2 Calcutta Mathematical Society (CMS)	Life member

## Invited Lectures Delivered □

- 1 Delivered lecture at Kalyani Mahavidyalaya on Undergraduate Research in Mathematics to celebrate National Mathematic Day-2022 (Dec. 22, 2022)
- 2 Delivered lecture at Sundarban Mahavidyalaya on Higher Education in Basic Sciences and Practices (Feb. 21, 2014)

## Award/Recognition □

- 1 Recognition from a renowned Educational Research Centric YouTube Channel with more than 150K subscriber (<https://youtu.be/vc05pa7iZOU?si=xRxv845cTseeU4vH>) have prepared an animation based on a visual proof from Dec. 2021 issue of **The Mathematical Intelligencer (sci)** (SPRINGER NATURE) (<https://doi.org/10.1007/s00283-021-10087-5>)
- 2 **Runner Up** in Kalyani University Chess Competition (Chhatra Utsav Mar. 16, 2002)
- 3 **Stood First** in Essay Competition on the occasion of Celebrating World Environment Day, 1997 organised by World Environment Celebration Day Committee, West Bengal in entire Birbhum district
- 4 **Stood Second** in Birbhum district in an essay competition organized by Birbhum District Cooperative Union (1994)

## Other Notable Activities □

### 1. Academic activity

(a) Few students who have secured 1st/2nd/3rd rank in University examination:

Name(s)	University Rank	Year
1 Ananya Choudhury	2nd	2015
2 Soumen Ghosh	2nd	2014
3 Arindam Mandal	2nd	2013
4 Santu Ghosh	3rd	
5 Banani Dutta	1st	2012
6 Ayub Ali Sk.	2nd	
7 Debaprasad Pal	3rd	
8 Debalina Bhattacharya	2nd	2011

## (b) Few Notable Students

Name(s)	Present designation
1 Dr Ali Hyder	Reader, TIFR Centre for Applicable Mathematics, Bangalore
2 Dr Kanailal Mahato	Assistant Professor, Benaras Hindu University
3 Dr Molla Basir Ahamed	Assistant Professor, Jadavpur University
4 Dr Sajjad Hossain	Assistant Professor, Aliah University
5 Dr Pradip Majhi	Assistant Professor, University of Calcutta
6 Dr Sangita Jha	Assistant Professor, NIT, Rourkela
7 Dr Sourav Das	Assistant Professor, NIT, Jamshedpur
8 Dr Arindam Mandal	Simons Instructorship at Stony Brook, New York

## 2. Administrative activity

1 <b>Hostel Superintendent</b> (New Kumar Hostel, K.N. College) for more than 10 years (w.e.f. 1 Aug., 2011)
2 <b>Election Commissioner</b> of K.N. College Students' Union Election for 2016–17 session
3 <b>RUSA 2.0 Nodal officer</b> , K.N. College
4 West Bengal Health Scheme related almost all online-based work from K.N. College End
5 Pension related various online-based work
6 <b>Convenor, JSBSTS-NCSTC DST Govt of India Sponsored Science Teachers' Training Workshop</b> , 18-20 Dec., 2017
7 Examination Procedure handling of JAGADIS BOSE NATIONAL SCIENCE TALENT SEARCH (2010-16)
8 Murshidabad District <b>Observer</b> for WBJEEB-2012, 2013, 2015
9 <b>Incharge</b> of Student Placement Committee (2010-17), K.N. College (Organized a recruitment drive with TCS Ltd at K.N. College on 5,6 Mar., 2009)
10 <b>AISHE-DCF</b> Preparation for K.N. College during 2014-20

## 3. Social Activity

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Blood Donated at	Date
1 Krishnath College NSS Unit	13 Jan., 2023
2 State Blood Transfusion Council, WB	1 Dec., 2015
3 Life Care	4 Nov., 2011
4 Association of Voluntary Blood Donors, WB	26 Jul., 2000
5 Association of Voluntary Blood Donors, WB	30 Nov., 1998

## List of Papers Presented in Conferences/Seminar

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Title of the Paper presented	Title of the Conference/Seminar	Organized by	Whether International/ National/State/Regional/ College or University Level
1 Meromorphic functions sharing three values and a result of G. Brosch	EMERGING ADVANCES IN MATHEMATICS	Sripat Singh College	National (Dec. 17, 2016)
2 Meromorphic functions sharing three values and a result of G. Brosch	RECENT DEVELOPMENT IN MATHEMATICS	Kalyani Mahavidyalaya	National (Dec. 15, 2016)
3 Meromorphic functions sharing three values and a result of G. Brosch	ICAMTPBCS 2016	Calcutta Mathematical Society	International (Dec. 9-11, 2016)
4 Meromorphic functions sharing three values and a result of G. Brosch	4TH INDIA BIODIVERSITY MEET 2016	Indian Statistical Institute & Govt College of Engineering and Textile Technology	National (Oct. 24-27, 2016)
5 Value sharing by an entire functions with its derivatives	ICCDMMS 2014	Calcutta Mathematical Society	International (Dec. 19-21, 2014)
6 Entire functions sharing certain values with their derivatives	NSMA 2014	University of Kalyani	National (Mar. 4-5, 2014)
7 Paper presentation	NSRTM 2013 UGC-SAP	University of Kalyani	National (Mar. 8, 2013)
8 Seminar-Participation	NSAMGT 2012	UGC sponsored & University of Kalyani	National (Mar. 21-22, 2012)
9 Seminar-Participation	CCAA 2011	UGC sponsored & Sundarban Mahavidyalaya, WB	National (Nov. 24-25, 2011)

## Workshop

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Title	Particulars	Organized by	Date
1 Refresher Course	Refreshers Course on Application of MATLAB in Engineering	NITTR, Kolkata	(3-14 Sep., 2018)
2 Teacher's Enrichment Programme	Ecological & Environment Modelling	Indian Statistical Institute (ISI), Kolkata & GCETT, Berhampore	(Oct. 25, 2016)
3 Teacher's Enrichment Programme	National centre for Mathematics ( <a href="http://www.ncmath.org">www.ncmath.org</a> )	In Collaboration with TIFR & IIT, Bombay	(Feb. 1-6, 2016)
4 Faculty Development Programme	Statistical Modelling & Data Analysis: Its Engineering Application	GCETT, Berhampore	(Jan. 11-15, 2016)
5 RMS-NCM Teacher's Enrichment Programme	National centre for Mathematics Advanced Training in Mathematics School ( <a href="http://www.atmschools.com">www.atmschools.com</a> )	In Collaboration with TIFR & IIT, Bombay	(Dec. 27-31, 2013)

## List of Journal Publication/Conference Papers



No.	Title	Journal Name	ISSN/ ISBN No.	Whether Peer Reviewed. Impact Factor, if any	Name of author(s)	Year of Publication
1.	A visual proof: convergence of a hyper power sequence—a generalisation DOI: <a href="https://doi.org/10.1080/0020739X.2023.2220324">10.1080/0020739X.2023.2220324</a>	International Journal of Mathematical Education in Science and Technology (TAYLOR & FRANCIS)	0020-739X	Yes Peer Reviewed. (SCOPUS) (ESCI)	Rajib Mukherjee	July 2023 UGC CARE enlisted
2.	Extending Galileo's Ratio to Hex Numbers and Beyond DOI: <a href="https://doi.org/10.1080/0025570X.2023.2199704">10.1080/0025570X.2023.2199704</a>	Mathematics Magazine (TAYLOR & FRANCIS)	0025-570X	Yes Peer Reviewed. (SCOPUS) (ESCI)	Rajib Mukherjee and Manishita Chakraborty	2023-04 UGC CARE enlisted
3.	Sums of Reciprocals of Powers of Two in $k$ -Dimension ( $k \geq 2$ ) DOI: <a href="https://doi.org/10.1007/s12045-023-1569-5">10.1007/s12045-023-1569-5</a>	Resonance (SPRINGER NATURE)	0973-712X	Yes Peer Reviewed. (SCOPUS) (ESCI)	Rajib Mukherjee and Manishita Chakraborty	2023-03 UGC CARE enlisted
4.	A geometric telescope revisited DOI: <a href="https://doi.org/10.1017/mag.2023.18">10.1017/mag.2023.18</a>	The Mathematical Gazette (CAMBRIDGE UNIVERSITY PRESS)	0025-5572	Yes Peer Reviewed. (SCOPUS) (ESCI)	Rajib Mukherjee	2023-02 UGC CARE enlisted
5.	A New and Elementary Inequality Related to Riemann Zeta Function DOI: <a href="https://doi.org/10.1007/s12045-022-1492-1">10.1007/s12045-022-1492-1</a>	Resonance (SPRINGER NATURE)	0973-712X	Yes Peer Reviewed. (SCOPUS) (ESCI)	Rajib Mukherjee and Anuprava Biswas	2022-11 UGC CARE enlisted
6.	A Visual Tour to Kempner's Series DOI: <a href="https://doi.org/10.1007/s12045-022-1473-4">10.1007/s12045-022-1473-4</a>	Resonance (SPRINGER NATURE)	0973-712X	Yes Peer Reviewed. (SCOPUS) (ESCI)	Anuprava Biswas, Niladri Sarkar and Rajib Mukherjee	2022-10 UGC CARE enlisted
7.	A Note on Convergence of A Special Class of Infinite Continued Fractions DOI: <a href="https://doi.org/10.1007/s12045-021-1264-3">10.1007/s12045-021-1264-3</a>	Resonance (SPRINGER NATURE)	0973-712X	Yes Peer Reviewed. (SCOPUS) (ESCI)	Rajib Mukherjee and Manishita Chakraborty	2021-11 UGC CARE enlisted
8.	Visual Estimation of Sum of First $n$ Triangular, Tetrahedral and Pentatope Numbers DOI: <a href="https://doi.org/10.1007/s12045-021-1197-x">10.1007/s12045-021-1197-x</a>	Resonance (SPRINGER NATURE)	0973-712X	Yes Peer Reviewed. (SCOPUS) (ESCI)	Rajib Mukherjee and Manishita Chakraborty	2021-07 UGC CARE enlisted
9.	Proof Without Words: Sums of Powers of Eight DOI: <a href="https://doi.org/10.1007/s00283-021-10087-5">10.1007/s00283-021-10087-5</a>	The Mathematical Intelligencer (SPRINGER NATURE)	0343-6993	Yes Peer Reviewed. (SCOPUS) (SCI)	Rajib Mukherjee	2021-06 UGC CARE enlisted
10.	Visual Evaluation of a Geometric Series: Sum of Reciprocals of Odd Powers of Two DOI: <a href="https://doi.org/10.1007/s00283-021-10090-w">10.1007/s00283-021-10090-w</a>	The Mathematical Intelligencer (SPRINGER NATURE)	0343-6993	Yes Peer Reviewed. (SCOPUS) (SCI)	Rajib Mukherjee	2021-06 UGC CARE enlisted
11.	A short note on a curious convergent series DOI: <a href="https://doi.org/10.1142/S1793557121501588">10.1142/S1793557121501588</a>	Asian-European Journal of Mathematics (World Scientific)	1793-7183	Yes Peer Reviewed. (SCOPUS) (ESCI)	Rajib Mukherjee and Niladri Sarkar	2021-02 UGC CARE enlisted
12.	Beyond $\pi^e < e^\pi$ : Proof Without Words of $b^a < a^b$ ( $b > a \geq e$ ) DOI: <a href="https://doi.org/10.1007/s12045-020-1078-8">10.1007/s12045-020-1078-8</a>	Resonance (SPRINGER NATURE)	0973-712X	Yes Peer Reviewed. (SCOPUS) (ESCI)	Rajib Mukherjee and Manishita Chakraborty	2020-11 UGC CARE enlisted
13.	Meromorphic Functions Sharing Three Values and A Result of G. Brosch DOI: <a href="https://doi.org/10.37256/cm.00037.63-76">10.37256/cm.00037.63-76</a>	Contemporary Mathematics	2705-1064	Yes Peer Reviewed.	Indrajit Lahiri and Rajib Mukherjee	2020-03
14.	Entire Functions Sharing Polynomials with Derivatives VOL: 110, (6)	Bulletin of the Calcutta Mathematical Society	0008-0659	Yes Peer Reviewed.	Rajib Mukherjee	2018-12 UGC CARE enlisted
15.	Entire Functions Sharing Certain Values with their Derivatives VOL: 110, (4)	Bulletin of the Calcutta Mathematical Society	0008-0659	Yes Peer Reviewed.	Rajib Mukherjee	2018-08 UGC CARE enlisted
16.	Entire Functions Sharing Certain Values with their Derivatives VOL: 109, (5)	Bulletin of the Calcutta Mathematical Society	0008-0659	Yes Peer Reviewed.	Rajib Mukherjee	2017-08 UGC CARE enlisted
17.	Value Sharing by an Entire Function with Its Derivatives DOI: <a href="https://doi.org/10.1007/s40306-014-0107-7">10.1007/s40306-014-0107-7</a>	Acta Mathematica Vietnamica (SPRINGER NATURE)	0251-4184	Yes Peer Reviewed. (SCOPUS) (ESCI)	Indrajit Lahiri and Rajib Mukherjee	2016 UGC CARE enlisted
18.	Value distribution of the product of a meromorphic derivative and a power of the function DOI: <a href="https://doi.org/10.5666/KMJ.2015.55.2.335">10.5666/KMJ.2015.55.2.335</a>	Kyungpook Mathematical Journal	0454-8124	Yes Peer Reviewed. (SCOPUS) (ESCI)	Indrajit Lahiri and Rajib Mukherjee	2015 UGC CARE enlisted
19.	Entire functions sharing certain values with their derivatives DOI: <a href="https://doi.org/10.1515/anly-2012-1224">10.1515/anly-2012-1224</a>	Analysis (DE GRUYTER)	2196-6753	Yes Peer Reviewed. (SCOPUS) (ESCI)	Indrajit Lahiri and Rajib Mukherjee	2014-01 UGC CARE enlisted
20.	Uniqueness of entire functions sharing a value with linear differential polynomials DOI: <a href="https://doi.org/10.1017/S0004972711002966">10.1017/S0004972711002966</a>	Bulletin of the Australian Mathematical Society (CAMBRIDGE UNIVERSITY PRESS)	0004-9727	Yes Peer Reviewed. (SCOPUS) (SCI)	Indrajit Lahiri and Rajib Mukherjee	2012 UGC CARE enlisted

## List of Accepted Papers



No.	Title	Journal Name	ISSN/ ISBN No.	Whether Peer Reviewed. Impact Factor, if any	Name of author(s)	Year of Publication
21.	Generalization of an algebraic inequality. ACCEPTED: To be published in the July 2025 issue.	The Mathematical Gazette (CAMBRIDGE UNIVERSITY PRESS)	0025-5572	Yes Peer Reviewed. (SCOPUS) (ESCI)	Rajib Mukherjee	<b>2023-09</b> UGC CARE enlisted
22.	Generalizing a limit involving iterated nth roots. ACCEPTED: To be published.	Mathematics Magazine (TAYLOR & FRANCIS)	0025-570X	Yes Peer Reviewed. (SCOPUS) (ESCI)	Rajib Mukherjee	<b>2024-04</b> UGC CARE enlisted