



## GOVERNMENT GENERAL DEGREE COLLEGE, RANIBANDH

### FACULTY PROFILE

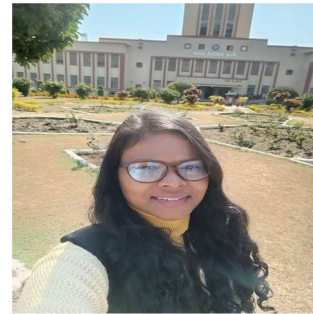
#### DEPARTMENT OF MATHEMATICS

#### Ipsita Rajwar

**Designation** Assistant Professor

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GGDC Ranibandh, Dept. of  
Mathematics

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#### Educational Qualification

Degree	Institution	Year
Ph.D.	IIT Kharagpur	Thesis submitted 2024
M. Phil.	NA	NA
P.G.	Presidency University	2016
U.G.	Presidency University	2014

**Any other  
Qualification**

#### Research Areas

Matrix Lie Group, Geometry

#### Areas of Interest/ Specialization

Real Analysis, Algebra, Differential Geometry, Mathematical Physics

## Career Profile

Serving as an Assistant Professor in Mathematics at GGDC, Ranibandh since March 29, 2019.

## Administrative Assignments

## Topics Taught In the Previous Academic Year

Differential & Integral Calculus, Differential Equation, Linear Algebra, Vector Calculus, Complex Analysis, Integral Transform.

## Publication

- D. Biswas and **I. Rajwar**, *The Geometry of projective action of  $SL(3, \mathbb{R})$  from the Erlangen perspective*, Armenian Journal of Mathematics, 16(1), 1--28, 2024. DOI: <https://doi.org/10.52737/18291163-2024.16.1-1-28>
- D. Biswas and **I. Rajwar**, *Projective disk and the action of  $SL(3, \mathbb{R})$  Exploring orthogonality*, Lobachevskii Journal of Mathematics, 2023. Vol. 44, No. 12, pp. 5186–5196. (Accepted for publication)
- D. Biswas and **I. Rajwar**, *Geometry associated with the  $SL(3, \mathbb{R})$  action on homogeneous space using the Erlangen program*, Armenian Journal of Mathematics, 14(11), 1--15, 2022. DOI: <https://doi.org/10.52737/18291163-2022.14.11-1-15>

## Research Paper Presentation in Conferences

- Presented a paper titled *EPH upper half plane in connection to the projective action of  $SL(3, \mathbb{R})$*  in the 29th ICFIDCAA held at Department of Mathematics, Pondicherry University, Pondicherry during 21-25 August, 2023.
- Presented a paper titled *An Erlangen approach to study the action of the subgroup of  $SL(3, \mathbb{R})$  on the real projective plane* in the 88th Annual Conference of The Indian Mathematical Society organized by Department of Mathematics, BIT MESRA, Ranchi during 27-30 December, 2022.
- Presented a paper entitled *An Erlangen approach to study invariants on Real Projective Plane under the action of The Lie Group  $SL(3, \mathbb{R})$*  in the International Conference AACMME-2021 held at Department of Mathematics, National Institute of Technology, Rourkela (24th-26th February 2021).
- Presented a paper titled *Some Invariants on Real Projective Plane under the action of the Lie Group  $SL(3, \mathbb{R})$*  in the National Conference NCEMS-2021 held at Department of Mathematics, Institute of Science, Banaras Hindu University during 20-22 December, 2021.

- Presented a paper entitled *Geometry associated with the Lie group  $SL(3, \mathbb{R})$*  in the International Conference ICAHMMSMM-2019 organized by Calcutta mathematical Society (20th -22nd December, 2019).

#### **Awards & Distinction**

- Recipient of Inspire Scholarship (2011-2016).
- Recipient of UGC Fellowship for pursuing Ph.D (2017-2019).

#### **Other Academic Achievements**

Qualified NET-JRF, GATE

#### **Association with Professional Bodies**

#### **Other Activities**

#### **Visions**

To assist all my students in comprehending the inherent beauty of Mathematics.