

## RESUME



**NAME:** DR. ARUP KUNDU

**Designation:** Assistant Professor in Mathematics (Stage-II)  
(Methodology Course), West Bengal Educational Service(WBES)

**Date of Joining in Government Service:** 04.08.2015

**Present Office Address:** ASSISTANT PROFESSOR IN MATHEMATICS (METHODOLOGY),  
GOVERNMENT TRAINING COLLEGE (CTE), HOOGHLY,  
GOVERNMENT OF WEST BENGAL  
CHAWKBAZAR, P.O.+DIST. - HOOGHLY, PIN- 712103, WEST BENGAL  
**Permanent Address (R):** VILL- BELATUKRI, P.O. - NIKUNJAPUR, DIST- BANKURA, WEST BENGAL.

**Category:** GENERAL  
**Nationality:** INDIAN

**Gender:** MALE  
**Religion:** HINDU

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### Academic Qualification:

B.Sc. (Mathematics Honours),  
MA/M.Sc. (Mathematics & Education),  
B.Ed., M.Ed.,  
Post Graduate Diploma in Guidance and Counselling  
&  
NET-JRF of University of Calcutta, Ph.D.

### Area of Specialization:

Applied Mathematics (Advanced Optimization and Operation Research),  
Pedagogical Study of School Subjects (Mathematics & Physical Science), Measurement and  
Evaluation in Education,  
Education Technology, Education of Children with Special Needs, Guidance & Counselling,  
Mathematics Education.

**AREA OF INTEREST:** Mathematics Education, Research Methodology, Educational Statistics,  
Measurement and Evaluation, Guidance and Counselling, Critical Understanding of ICT, Curriculum  
Studies, Understanding Discipline and Subject.

### ADMINISTRATIVE EXPERIENCE:

A) To play the role of Convener/coordinator/Supervisor:

- i.) Convener of Internal and External examination,
- ii.) Supervisor of University Examination,
- iii.) Nodal Officer of National Scholarship Portal
- iv.) Nodal officer of AIKYASHREE Scholarship

- v.) Nodal officer of SVMCM Scholarship
- vi.) Nodal officer of OASIS Scholarship
- vii.) West Bengal Student Credit Card scheme
- viii.) Nodal officer of Banglar Uchchashiksha Portal
- ix.) NSS Programme Officer, GTCH Unit.
- x.) Excursion in Charge (Educational Excursion of college
- xi.) ICT Laboratory In-Charge
- B) Acted as OIC in absence of Principal / OIC of Govt. Training College, Hooghly
- B) Acted as **Presiding officer** under Election Commissioner of India
- i. West Bengal Legislative Assembly 2021 (Bidhansava 2021).
- ii. Parliamentary General Election 2024 (Loksabha 2024).

### Teaching Experience:

Name of post	Institution/ Office were employed	Permanent or temporary or on contract basis	Date of joining (exact date)	Date of leaving (exact date)
Lecturer in Mathematics	Acharya Prafulla Chandra College, New Barrackpur. Kolkata-131	Guest Lecturer	04/09/2010	26/05/2012
Junior Research Fellow (JRF)	University of Calcutta (Junior Research Fellow-NET-Awarded by the UGC, Govt. of India)	Junior Research Fellow	21/10/2013	03/08/2015
Former Guest Honorary Lecturer	Department of Education, University of Calcutta, Kolkata-27	Guest Lecturer (Non-Remunerative)	01/07/2017	30/06/2022
Assistant Professor in Mathematics (Methodology) (Stage-I)	Government Training College (CTE), Hooghly- 712103	Permanent	04/08/2015	04.08.2019
Assistant Professor in Mathematics (Methodology) (Stage-II)	Government Training College (CTE), Hooghly- 712103	Permanent	04/08/2019	Till date

### Publications:

Sl. No.	Title	Published Articles	Year	ISSN/ ISBN/ Vol. No.	Remarks
1	Van Hiele levels of geometry thinking among H.S. students from different streams of study	'SIKSHACHINTAN' a Journal of Education, RKMSM, Belur Math, Howrah	2015	ISSN-0973-5461, Vol. 9	Main author
2	Parental Education and van Hiele Level of Geometric Thinking among Higher Secondary Students	Indian Journal of Educational Research (Peer Reviewed), UGC Approved Department of Education, University of Calcutta	2015	ISSN 2277-3819 Vol. IV. March 2015	Main author

3	The Relationship between Attitude and Self efficacy in Mathematics among Higher Secondary Students	<i>ISOR Journal of Humanities and Social Science (IOSR-JHSS)</i>	2016	ISSN-2279-0837 Vol. 21(4)	Main author
4	The Relationship between Attitude towards and Achievement in Mathematics among Higher Secondary Students	<i>International Journal of Multidisciplinary Research and Development</i> IF:RJIF5.72	2016	ISSN-2349-4182 Vol. 3(6)	Main author
5	Gender Related Difference in the Acquisition of van Hiele Level in Geometry of Higher Secondary Students in West Bengal	<i>International Journal of Multidisciplinary Educational Research, UGC Approved</i> IF:3.318 IC Value:5.16	2016	ISSN-2277-7881 Vol. 5(6)	Main author
6	Students' Attitude towards Mathematics in Higher Secondary Schools of Southern Districts of West Bengal	<i>A Quarterly Refereed Journal of Dialogues on Education</i> "Education India" UGC CARE	2016	ISSN 2278-2435 Vol. 5(3)	Main author
7	Self-efficacy in Mathematics and Students' van Hiele Levels	<i>A Quarterly Refereed Journal of Dialogues on Education</i> "Education India" UGC CARE	2017	ISSN 2278-2435 Vol. 6(2)	Solo
8	Gender Related Difference in the Achievement of van Hiele Level in Geometry of Higher Secondary Students in the district Bankura	<i>International Seminar on Education for all - Issues, Challenges and Perspectives.</i>	2017	ISBN 978-93-5267-710-8	Solo
9	A Step for Joyful Learning of Mathematics-Establishing Mathematics Laboratory in Schools	<i>International Seminar on Education for all - Issues, Challenges and Perspectives.</i>	2017	ISBN 978-93-5267-710-8	Co-author
10	The Relationship between Self-efficacy and Achievement in Mathematics among Secondary Students	<i>International Seminar on Education for all - Issues, Challenges and Perspectives.</i>	2017	ISBN 978-93-5267-710-8	Co-author
11	Parental Educational status on Students' Performance of Geometry in Bankura District	<i>MANAN: An Academic (Peer Reviewed) Journal</i>	2017	ISSN-2348-3849 Vol. IV(1&2)	Solo
12	'Influence of Parental Education on the Performance in Mathematics'	<i>International Journal of Current Advanced Research, UGC Approved</i>	2018	ISSN: 2319-6475	Solo
13	A Survey on Self efficacy in Mathematics of Class XI Students in West Bengal	<i>Journal of Indian Education Department of Teacher Education- UGC CARE, NCERT, New Delhi</i>	Feb, 2019	ISSN 0377-0435	Solo

				Vol. XLIV(4)	
14	Parents' Level of Education as Predictors of Students' performance of Van Hiele Geometric Level in South 24 Parganas District	<i>Workshop Proceedings "Mathematics for all"</i>	Marc h, 2019	ISBN:978-81-929219-6-9	Solo
15	Impact of Mothers' Education on the Achievement in Mathematics	<i>International Journal of Basic and Applied Research, UGC Approved,</i>	July, 2019	ISSN:2249-3352(P), Vol.9(7)	Solo
16	Influence of Parents Educational Qualification on Children's Achievement in Mathematics in Bankura District	<i>KHOAI-UGC CARE Listed Journal Art and Humanities Tri-Annual Journal,)</i>	May, 2021	ISSN: 2319-8389 Vol. 43(43)	Solo
17	Influence of Gender and Parents Education Level on Mathematics Achievement of Madhyamik Passed Students in South 24 Parganas, West Bengal	<i>Voice of Teachers and Teacher Educators, UGC CARE ,NCERT, New Delhi</i>	July, 2022	ISSN 2455-1376 Vol. XI, (I)	Solo
18	Innovation in Teaching Mathematics to strengthen Mathematical understanding of school students	<i>POLYPHONY: Bankura University Journal of Education</i>	2023	ISSN: XXXX-XXXX, Vol. 01(01)	Solo
19	The Geometric Reasoning Levels and Gender Difference of pre-Service Teachers' in West Bengal	<i>Centre for Pedagogical studies in Mathematics: Challenges in Mathematics Education</i>	2023	ISBN: 978-81-964521-0-0 Vol. 31	Solo
20	A study on the relationship between Self-efficacy beliefs in mathematics and Attitude towards mathematics in the district of Bankura	<i>ANWESA: A Journal of Education (Peer Reviewed)</i>	2023	ISSN:0973-5895	Solo
21	A Study on Attitude towards Mathematics and Geometric Concepts Acquisition of Higher Secondary Students in district of Bankura	<i>Department of Education, Bankura University</i>	Jan, 2024		Solo
22	Gateways to Strengthen Mathematical Reflection for School Students to Materialize NEP 2020	<i>Teacher Education: Issues and Challenges in the Perspectives of NEP -2020</i>	Jan, 2024	ISBN: 978-81-969989-8-1	Solo

23	Joyful mathematics learning through competency in digital literacy in view of NEP 2020	ESHANA	May, 2024	ISBN: 978-81-969989-6-7	Solo
24	Artificial Intelligence integrated education and some AI based tools for mathematics teaching & learning	Centre for Pedagogical studies in Mathematics: Challenges in Mathematics Education	June, 2024	978-81-964521-3-1	Solo
BOOK(s) Publication					
25	Pedagogy of Mathematics Teaching	Aaheli Publishers	Feb, 2024	ISBN: 978-93-92416-70-5	Solo

**Other relevant information:**

**A) Special Award / Achievement:**

- 1) **Awarded UGC-NET Junior Research fellowship (JRF)** joined PhD programe University of Calcutta.

Area of research: **Mathematics Education**

Title of research: **‘Van Hiele Level of Geometry conceptualization Among Class XI Students and Its Relation to Their Attitude towards And Self Efficacy in Mathematics.’**

**Ph.D. (Mathematics Education) Awarded on 18.01.2019, University of Calcutta, Kolkata.**

**B) RC/OP/STP/FDP/CBP/school/course completed:**

1) Completed **10 Days Research Methodology Course for Ph. D Scholar in Social Science**, Organised by **Department of Education, University of Calcutta**, Sponsored by Indian Council of Social Science Research (ICSSR).

2) Completed **5 days Capacity Building Programe for the Faculty of Colleges of Teacher Education on the Emerging Concern of Gender, School and Society (August 29<sup>th</sup> –September 2<sup>nd</sup>, 2016)** held at the **Department of Gender Studies, NCERT, New Delhi**.

3) Completed **21 Days (December 10 to 30, 2016) Refresher Course in Education/Teacher Education**, Organised by **UGC-Human Resource Development Centre, The University of Burdwan**.

4) Completed **28 Days (4<sup>th</sup> September 2018 to 03 October 2018) UGC-Sponsored Orientation Programme** Organised by **UGC-Human Resource Development Centre, University of Calcutta**.

5) Successfully completed **Annual Refresher Programme in Teaching (ARPIT-2020) for CAS promotion Pedagogical Innovations and Research Methodology (Interdisciplinary) From 1<sup>st</sup> December 2020 to 31<sup>st</sup> March 2021 with a Grade “A”** in the proctored examination held on 21.08.2021 Organised by **National Testing Agency, UGC & Ministry of Education, Government of India**.

6) Successfully completed the **ICSSR sponsored Two-Week Capacity Building Programme on “Quantitative and Qualitative Research Methods for Social Science Faculty Members”** organized by **Department of Education, Ravenshaw University, Cuttack, from 15.05.2023 to 26.05.2023**.

7) Successfully completed the **Inter-disciplinary Refresher Course on Research Methodology in Economics, Management and Social Science** from 04.12.2023 to 16.12.2023 (Two-Week) at UGC-MMTTC (Formerly HRDC), Jadavpur University, Kolkata.

8) Successfully completed the **NEP-Orientation and Sensitization programme** from 01.05.2024 to 10.05.2024 at UGC-MMTTC Jointly organised by NIEPA, New Delhi & Assam Science and Technology University.

### **C) Workshop Participated**

1) Attended the **two** days UGC sponsored Seminar –cum- Workshop on “**Teaching Learning strategies in 21<sup>st</sup> Century Classrooms**” held at Uluberia College, Howrah-711315.(Organised by Department of Education, Uluberia College, In collaboration with Ramakrishna Mission Sikshanamandira).

2) Attended the **one** day Seminar cum Workshop on “**The revised Curriculum for B.Ed course of study**”, under University of Calcutta (w.e.f the academic session 2013-14) held at Loreto College, Kolkata.

3) Attended the **one** day Seminar –cum- Workshop on “**Different Approaches in Educational Research**” Organized by Department of Education, University of Calcutta & All India Association of Educational Research(WB Chapter), held on 23<sup>rd</sup> November 2014.

4) **Attended and contributed** in the two days Workshop on “**To find out the researchable areas in Population Education**” (under National Population Education Project, Funded by NCERT ) organised by the State Council of Educational Research & Training (SCERT), West Bengal, School Education Department, Govt. of West Bengal on 05<sup>th</sup> & 06<sup>th</sup> November 2015.

### **D) Participated as a Resource person**

1) **Attended and contributed** in the two days Workshop on “**To find out the researchable areas in Population Education**” (under National Population Education Project, Funded by NCERT ) organised by the State Council of Educational Research & Training (SCERT), West Bengal, School Education Department, Govt. of West Bengal on 05-06 November 2015.

2) Acted as ‘Resource **Person**’ in the three days workshop on “**Syllabus and Content Editing of D.El.Ed. Course**” organised by the State Council of Educational Research & Training (SCERT), West Bengal, School Education Department, and Govt. of West Bengal on 24-26 April, 2016.

3) Acted as **Workshop Director/in-charge and Resource Person** in the **12** days **IGNOU-B.Ed. Programme workshop-II** for the Session (2016) at Programme study centre 2897P, Govt. Training College Hooghly, West Bengal.

4) Acted as **Resource person (Workshop) and facilitator (PCP)** of **Two** years **D.El.Ed. Course (ODL Mode)** for PBSSM approved in-service Para teachers (Primary & Upper Primary) Session 2015-2017, at Study centre Govt. Training College, Hooghly under West Bengal Board of Primary Education.

5) Acted as **Resource person (Workshop) and facilitator (PCP)** of **Two** years **D.El.Ed. Course (ODL Mode)** for PBSSM approved in-service Para teachers (Primary & Upper Primary) Session 2015-2017, at Study centre Elite B.Ed. College, Hooghly under West Bengal Board of Primary Education.

6) Acted as an **Expert in the panel discussion** of 35<sup>th</sup> Annual conference on the theme of Artificial Intelligence in Teaching Learning Mathematics at the Secondary Level organized by the **Centre for**



**Pedagogical Studies in Mathematics, Kolkata** on 29<sup>th</sup> and 30<sup>th</sup> June, 2024 at the auditorium of CPSM, B/4, Sammilani Park, Kolkata-700075.

#### **E) Seminar and Conference participated/attended**

- 1) Attended the **One-day Seminar on “Role of Media about Awareness on Disability (Mentally Challenged Persons)”** held at Jadavpur University, Kolkata. (Organised by Special Education & HEPSN Cell, J.U & Arogya Sandhan Charitable Trust), 1<sup>st</sup> December 2013.
- 2) Attended the **3 days Conference International Conference on Geometry and its Applications** in collaboration with the tensor Society, India, held at the Department of Mathematics, Jadavpur University, Kolkata, India during October 16-18, 2014.
- 3) Attended the **one-day Seminar on “Pedagogy & Andragogy of Motivation”** Organized by Government Training College, Hooghly. IQAC with the help of the UGC held on 08 May, 2016.
- 4) Attended one day workshop/Seminar on **Mental Health Awareness programme** in Collaboration with the office of the CMOH Hooghly organised by IQAC, Govt. Training College, Hooghly held on 25.08.2023.
- 5) Attended the one-day **International Symposium on “Pathways to Higher Education in the US: Interdisciplinary studies and transformative careers”** organized by IQAC, Govt. Training College, Hooghly held on 24.06.2024.

#### **F) Paper presented**

- 1) **Presented** a paper entitled “Gender Related Difference in the Achievement of Van Hiele Level in Geometry of Higher Secondary Students in the District Bankura” in the UGC sponsored **one day**(17.03.2017) **International Seminar** – on “**Education for All: Issues, Challenges and Perspectives** held at Govt. Training College, Hooghly-712103.(Organised by IQAC, Govt. Training College, Hooghly.
- 2) **Presented** a paper entitled “Streams Related Difference in the Acquisition of Van Hiele Levels in Geometry of Higher Secondary Students in the District of South 24 Parganas” in the UGC sponsored **one day National Seminar** – on “**Curriculum, Pedagogy and Learning: Quest for a New Paradigm**” held at Institute of Education (P.G.) For Women, Chandernagore, Hooghly, Organised by IQAC, Institute of Education (P.G.) For Women, Chandernagore Hooghly.
- 3) **Presented** a paper entitled “Parents’ Level of Education as Predictors of Students’ performance of Van Hiele Geometric Level in South 24 Parganas District” in the West Bengal State Council of Science and Technology catalysed and supported **one day Workshop on “Mathematics for All”** held at Mathematics Resource Centre, Department of Education, Aliah University.
- 4) **Presented** a paper entitled “A Study on Attitude towards Mathematics and Geometric Concepts Acquisition of Higher Secondary Students in district of Bankura” in the two day (09 & 10<sup>th</sup> January, 2024) **International Seminar on “Education in 21th Century: Issues and Challenges”** held at Department of Education, Bankura University.
- 5) **Presented** a paper entitled “Gateways to Strengthen Mathematical Reflection for School Students to Materialize NEP 2020” in the one-day National Seminar on **Teacher Education: Issues and Challenges in the Perspectives of NEP -2020** held at Govt. Training College, Hooghly on 30<sup>th</sup> January, 2024.

6) **Presented** a paper entitled “**Some AI based Tools for Mathematics teaching & learning**” in the One Day National Level Webinar on Injection of Artificial Intelligence in Mathematics Teaching learning organized by Centre for Pedagogical Studies in Mathematics, Kolkata on 3<sup>rd</sup> March, 2024.

Date: 08.07.2024

*Arup Kundu*

SIGNATURE