

**Name:** DR. JAYANTA MAJUMDAR



**Designation with Department:** ASSOCIATE PROFESSOR OF MATHEMATICS  
(W.B.E.S.)

**Qualifications:** M. Sc. in APPLIED MATHEMATICS, Ph. D.

**Brief Introduction:** Dr. Jayanta Majumdar is currently serving as an Associate Professor (W.B.E.S.) of Mathematics at Maulana Azad College, Kolkata. He has 24 years of teaching experience in both Honours and General courses. He was at Durgapur Govt. College, Durgapur during August 2001 to March 2012 and then served at Hooghly Mohsin College, Chinsurah, Hooghly during March 2012 to January, 2025 both affiliated by The University of Burdwan. His research interests are in the field of APPLICATION OF GENETIC ALGORITHM. He has published 7 research papers in reputed national and international journals and 1 Research Monograph entitled “Assignment and related problems in interval environment” in *LAMBERT Academic Publishing GmbH & Co. KG, Germany* in the year 2011. He has also successfully completed a UGC-sponsored Minor Research Project vide UGC Ref. No. PSW-007/05-06 (ERO) dated 21.03.2006 & 13.07.2007 (2006–2008). Beside his teaching, he remains actively involved in various academic and administrative responsibilities.

**Current Teaching:** 1. UG level: Honours and General courses under CBCS, 2018.  
2. UG level: Four-year (Honours and Honours with Research) under CCF, 2022  
[NEP, 2020]

**Research Interests:** APPLICATION OF GENETIC ALGORITHM FOR DIFFERENT TYPES OF ASSIGNMENT PROBLEMS AND RELATED TOPICS

**Selected Publications:**

1. National/Regional/ State Level:-

Sl No.	Year of Publication	TITLE	Journal Name	ISSN/ ISBN	Published By
1	2014 (Vol. 1, No. 2, July, 2014)	“Performance of Finding the Square of Numbers”	MANAN, An Academic Journal of All Bengal State Govt. College Teachers’ Association	ISSN: 2348-3849	J. Majumdar

2. International:-

Sl No.	Year of Publication	TITLE	Journal Name	ISSN/ ISBN	Published By
1	2006 (Vol.-8, Number 2, 135 – 149)	“Elitist genetic algorithm approach for Assignment Problem”	AMO-Advanced Modeling and Optimization	ISSN: 1841-4311	J. Majumdar and A. K. Bhunia

2	<b>2007</b> (Vol.-177, 684 – 692)	“Elitist genetic algorithm for Assignment Problem with imprecise goal”	European Journal of Operational Research, Elsevier Science	ISSN: 0377-2217	<b>J. Majumdar and A. K. Bhunia</b>
3	<b>2010</b> (Vol.-12, Number 2, 141 – 159)	“Solving Airline Crew-Scheduling Problem with imprecise service time using Genetic Algorithm”	AMO-Advanced Modeling and Optimization	ISSN: 1841-4311	<b>J. Majumdar and A. K. Bhunia</b>
4	<b>2010</b> (Vol.-2, No. 2, 60 – 86)	“Penalty approaches for assignment problem with single side constraint via Genetic Algorithms”	Journal of Mathematical Modelling and Application	ISSN: 2178-2423	<b>J. Majumdar and A. K. Bhunia</b>
5	<b>2011</b> (Vol.-235, Issue 9, 3063 – 3078)	“Genetic Algorithm for asymmetric traveling salesman problem with imprecise travel times”	Journal of Computational and Applied Mathematics, Elsevier Science	ISSN: 0377-0427	<b>J. Majumdar and A. K. Bhunia</b>
6	<b>2011</b> (Vol.-48, No. 3, 197 – 216)	“Solving a multi-objective interval crew-scheduling problem via Genetic Algorithms”	OPSEARCH, Springer	ISSN: 0030-3887 (print version), 0975-0320 (electronic version)	<b>J. Majumdar and A. K. Bhunia</b>
7	<b>2012</b> (Vol.-218, Issue 12, 6934 – 6941)	“An alternative approach for unbalanced assignment problem via Genetic Algorithm”	Applied Mathematics and Computation, Elsevier Science	ISSN: 0096-3003	<b>J. Majumdar and A. K. Bhunia</b>

### 3. Research Monograph:-

Sl No.	Year Of Publication	Title	Publisher & ISBN No.
1	<b>2011</b>  (Dated 25.08.2011)	“Assignment and related problems in interval environment”	<i>LAMBERT Academic Publishing GmbH &amp; Co. KG, Germany</i>  ISBN: 978-3-8454-0046-4

**Awards/Recognitions/ Invited Talk:**

- National Scholarship on the basis of result in H.S., 1991.
- Training-Cum-Workshop on UNIX / C at Calcutta University Computer Centre, 1996.

Sl. No.	Year	Title	Organized by	International /National / State Level
1	2009 (November 17 – 18)	Recent Trends in Operations Research and its Computational Challenges	Dept. of Applied Mathematics, University of Calcutta	<b>Invited lecture</b> National Seminar
2	2012 (March 16 – 17)	Recent Advances in Mathematics and its Applications in Engineering Sciences	Dept. of mathematics, Bengal College of Engineering & Technology, Durgapur	<b>Invited lecture</b> National Seminar
3	2015 (June 11)	Applications of Mathematics on Biological Science	Dept. of Mathematics, Hooghly Mohsin College, Hooghly	<b>Invited lecture</b> UGC-CPE Sponsored College Level Seminar

**Participation in Seminars / Conferences / Workshops:**

Sl. No.	Year	Title	Organized by	International /National / State Level
1	2007 (January 10 – 12)	Mathematics and Applications – Recent Trends	Dept. of Mathematics, Burdwan University	National Conference
2	2007 (January 31 – February 01)	Emerging Trends in Computational and Applied Mathematics	Dept. of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University	—
3	2007 (August 22 – 23)	Recent Advances in Operational Research and Related Computational Aspects	Dept. of Applied Mathematics, University of Calcutta	National Seminar

<b>4</b>	<b>2008</b> (March 18)	Application of Numerical Software in Mathematical Problems	UGC Sponsored Seminar at Dept. of Mathematics, Bidhan Chandra College, Asansol	College Level
<b>5</b>	<b>2009</b> (January 13 – 14)	Applied Mathematics and Related Computational Problems	Dept. of Applied Mathematics, University of Calcutta	National Symposium
<b>6</b>	<b>2010</b> (January 13 – 15)	Recent Advances in Mathematics and Applications (ICRAMA – 2010)	Dept. of Mathematics, Burdwan University	International Conference
<b>7</b>	<b>2010</b> (March 27 – 28)	Frontier of Mathematics and Applications (NSFMA – 2010)	Calcutta Mathematical Society	National Seminar
<b>8</b>	<b>2010</b> (December 09 – 11)	Recent Development in Mathematical Sciences and their Applications (ICRDMSA – 2010)	Calcutta Mathematical Society	International Conference
<b>9</b>	<b>2011</b> (January 31)	Modern Trends in Operations Research (MTOR -2011)	Dept. of Mathematics, National Institute of Technology, Durgapur	National Seminar
<b>10</b>	<b>2011</b> (March 15 – 17)	Frontiers in Applied Mathematics and its Computational Aspects	Dept. of Applied Mathematics, University of Calcutta	International Conference
<b>11</b>	<b>2012</b> (October 03 – 04)	Current Research and Developments in Mathematics and Computing	Dept. of Mathematics, Aliah University	National Seminar
<b>12</b>	<b>2014</b> (September 09 – 13)	5-Day National Workshop on Optimization and Fuzzy Mathematics	Dept. of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University	National Workshop

13	2015 (January 30)	Present Day Mathematics and its Applications	Dept. of Mathematics, K.K.Das College and Jogesh Ch. Chaudhuri College, Kolkata	UGC Sponsored One-Day State Level Seminar
14	2015 (February 18– 20)	Revisiting Ancient Mathematics and Mathematical Sciences	Dept. of Mathematics, Burdwan University	International Conference
15	2016 (February 09 – 11)	Recent Trends in Mathematical Sciences and Applications (ICRTMSA – 2016)	Dept. of Mathematics, Burdwan University	International Conference
16	2020 (July 10)	Complex Analysis and Vector Spaces	Dept. of Mathematics, Hooghly Mohsin College, Hooghly	One Day State Level Webinar
17	2020 (September 28 – 29)	Mathematics And Its recent Trends	Moulana Azad College, Kolkata – 13.	Two-Day Webinar
18	2020 (October 4)	Leave Rules and Health Schemes for College Teachers in West Bengal	Panihati Mahavidyalaya, Barasat Road, Sodepur, Kolkata -110.	State Level Webinar
19	2021 (June 02)	Glimpses of Ancient indian Mathematics	Dept. of Mathematics, Hooghly Mohsin College, Hooghly	One Day State Level Webinar
20	2021 (September 10)	Academic and Administrative Affairs Emphasizing the Promotion of College Teachers under CAS	Teachers' Council, Tehatta Sadananda Mahavidyalaya, Tehatta, Purba Barddhaman, West Bengal.	State Level Webinar

**Contact Details:**

Email: [jayanta.majumdar73@gmail.com](mailto:jayanta.majumdar73@gmail.com)  
 Mobile: 8335021545 (WhatsApp), 9433110195

**Any Other Information:** Attended 5 Faculty Development Programmes (1 OP, 3 RCs and 1 FEP)

**Web Links to Teaching/other resources:**