

CURRICULAM VITAE

Personal Details

DR. MRIDULA SARKAR

ASSISTANT PROFESSOR
DEPARTMENT OF MATHEMATICS
BANKURA SAMMILANI COLLEGE
KENDUADIHI, BANKURA-722102



Date of Birth : 15/09/1986
Educational Qualifications : M.Sc, Ph.D.
Permanent Address : Baikuntha Bhaban, Vill-Banipara,
P.O-Boral, Kolkata-700154
Contact No. : 8420916217
Email Id : mridula.sarkar86@rediffmail.com
mridula.sarkar86@yahoo.com
Date of Joining : 06/07/2017
Area of Teaching : Applied Mathematics (Mechanics, Operational
Research, Differential Equation, Complex
Analysis, LPP, Geometry, C-Programming and
so on.)
Research Interest : Structural Design Optimization in Imprecise
Environment.

Academic Qualification

Name of the Examination	Board/University	Subject Taken	Year of Passing	Marks (%)
Madhyamik	W.B.B.S.E	Bengali, English, Mathematics, Physical Sciences, Life Sciences, History, Geography, Biology	2003	74.375
H.S	W.B.C.H.S.E	Bengali, English, Mathematics, Physics, Chemistry, Biology.	2005	62.50
B.Sc	University of Calcutta	Mathematics (Hons)	2009	46
M.Sc	Bengal Engineering and Science University, Shibpur	Applied Mathematics (Hons)	2011	71.65
CSIR-UGC NET	-	Mathematical Sciences	2014	-
Ph.D.	Indian Institute of	Studies on Some Truss Design,	05/02/2018	-

	Engineering Science and Technology, Shibpur	Welded Beam Design and Pavement Design Optimization Models in Imprecise Environment		
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List of Publications in National /International journal &Books

1. Sarkar, Mridula; Dey, Samir and Roy ,Tapan Kumar, Structural Design Optimization using Parameterized p-norm based Geometric Programming Technique, International Journal of Computer & Organization Trends(IJCOT),33(1),32-41,2016.
2. Sarkar, Mridula; Dey, Samir and Roy ,Tapan Kumar, Optimization of Structural Design by Fuzzy Geometric Programming Technique, IOSR Journal of Mathematics(IOSR-JM),12(5),97-106,2016.
3. Singh, Biswajit; Sarkar, Mridula; and Roy, Tapan Kumar, Intuitionistic Fuzzy Optimization of Truss Design: A Comparative Study, International Journal of Computer & Organization Trends (IJCOT), 37(1),25-33,2016.
4. Sarkar, Mridula and Roy, Tapan Kumar, Intuitionistic Fuzzy Optimization on Structural Design: A Comparative Study, International Journal of Innovative Research in Science, Engineering and Technology, 5(10), 18471-18482, 2016.
5. Sarkar, Mridula and Roy ,Tapan Kumar, Truss Design Optimization with Imprecise Load and Stress in Intuitionistic Fuzzy Environment, Journal of Ultra Scientist of Physical Sciences, Section B,29(2),12-23,2017.
6. Sarkar, Mridula; Dey, Samir and Roy ,Tapan Kumar, Truss Design Optimization using Neutrosophic Optimization Technique, Neutrosophic Sets and Systems,13,62- 69,2016.
7. Sarkar, Mridula and Roy, Tapan Kumar, Truss Design Optimization using Neutrosophic Optimization Technique: A Comparative Study, Advances in Fuzzy Mathematics, 12(3),411-438,2017.
8. Sarkar, Mridula; Dey, Samir and Roy ,Tapan Kumar, Neutrosophic Optimization Technique and its Application on Structural Design, Journal of Ultra Scientist of Physical Sciences,28(6),309-321,2016.
9. Sarkar,Mridula; Dey, Samir and Roy ,Tapan Kumar,Multi-Objective Neutrosophic Optimization Technique and its Application to Structural Design, International Journal of Computer Applications,148(12),31-37,2016.
10. Sarkar,Mridula and Roy ,Tapan Kumar,Multi-Objective Welded Beam Optimization using Neutrosophic Goal Programming Technique, Advances in Fuzzy Mathematics, 12(3),515-538,2017.
11. Sarkar,Mridula and Roy ,Tapan Kumar,Truss Design Optimization with Imprecise Load and Stress in Neutrosophic Environment, Advances in Fuzzy Mathematics, 12(3),439-474,2017.
12. Sarkar,Mridula; Dey, Samir and Roy ,Tapan Kumar,Multi-Objective Structural Design Optimization using Neutrosophic Goal Programming Technique, Neutrosophic Sets and Systems,15,8-17,2017.

13. Sarkar, Mridula and Roy ,Tapan Kumar, Optimization of Welded Beam with Imprecise Load and Stress by Parameterized Intuitionistic Fuzzy Optimization Technique, Advances in Fuzzy Mathematics,12(3),577-608,2017.
14. Sarkar,Mridula and Roy ,Tapan Kumar, Multi-Objective Welded Beam Design Optimization using T-Norm and T-Co-norm based Intuitionistic Fuzzy Optimization Technique.Advances in Fuzzy Mathematics,12(3),549-575,2017.
15. Sarkar,Mridula and Roy ,Tapan Kumar, Optimization of Welded Beam with Imprecise Load and Stress by Parameterized Neutrosophic Optimization Technique.Journal of Ultra Scientist of Physical Sciences,29(6),220-242,2017.
16. Sarkar,Mridula; Ghosh, Swarup and Roy ,Tapan Kumar, Multi-Objective Welded Beam Optimization using Neutrosophic Optimization Technique:A Comparative Study. Journal of Ultra Scientist of Physical Sciences, 29(6), 243-263, 2017.
17. Sarkar,Mridula and Roy ,Tapan Kumar, Optimization of Welded Beam Structure using Neutrosophic Optimization Technique:A Comparative Study.International Journal of Fuzzy Systems, DOI: 10.1007/s40815-017-0362-6.
18. Neutrosophic Operational Research Volume I, Pons Publishing House, ISBN 978-1-59973-520-7. Page -91.
19. Neutrosophic Operational Research Volume II, Pons Publishing House, ISBN 978-1-59973-537-5.Page-71-180
20. Neutrosophic Optimization and Its Application on Structural Design, Pons Publishing House,Mridula Sarkar,Tapan Kumar Roy, Florentin Smarandache,ISBN 978-1- 59973-543-6.
21. Sarkar,Mridula, Single Objective Welded Beam Design Optimization by Four Valued Refined Neutrosophic Optimization Technique,Neuroquantology,19(8),274-294,2021, DOI:10.48047/nq.2021.19.8.NQ21142.
22. Sarkar,Mridula, Multi Objective Three Bar Truss Design Optimization by Four Valued Refined Neutrosophic Optimization Technique,Neuroquantology,19(11),581-592,DOI:10.48047/nq.2021.19.11.NQ21262

Paper Presented and Attended in National/International Seminars/ Conferences /Workshop

Sl.No.	Name of the Conferences/ Workshop/ Seminar	Venue	Duration	National/ International	Title of the Paper Presented
1.	Concrete Roads: Analysis, Design and Evaluation	Indian Institute of Technology Kharagpur	27-02-2017—01-03-2018	National Short Term Course	Nil
2.	Recent Advances in Mathematics and its Applications	University of Calcutta(Department of Pure Mathematics)	24-02-2016--25-02-2016	National Seminar	Nil

3.	Recent Development on Optimization and Operation Research	University of Calcutta(Department of Applied Mathematics)	29-07-2015	Workshop	Nil
4.	Recent Trends in Mathematics and its Applications	University of Calcutta(Department of Pure	22-03-2013	National Seminar	Nil

		(Mathematics)			
5.	Recent Advances in Modelling & Computational Techniques in Applied Mathematics	Indian Institute of Engineering Science and Technology, Shibpur	20-11-2017---24-11-2017	National Workshop	Nil
6.	Fuzzy Set Theory and Applications	National Institute of Technology, Durgapur	30-11-2017---2-12-2017	National Seminar	Optimization of Welded Beam Structure using Neutrosophic Optimization Technique: A Comparative Study

Research Experience

Name of the University	Topic of the Research	From	To	Total Period	Type
Indian Institute of Engineering Science and Technology, Shibpur	Studies on Some Truss Design, Welded Beam Design and Pavement Design Optimization Models in Imprecise Environment	18-02-2014	06-07-2017	3 Years	Full Time Research Fellow
		06-07-2017	05-02-2018	7 months	Part Time Research Fellow
Area of Interest	Structural Design Optimization, Fuzzy Set Theory, Intuitionistic Fuzzy Set Theory and Neutrosophic Set Theory.				

Other Relevant Information Regarding Research	<ol style="list-style-type: none"> 1. Ph.D course work completed from IEST, Shibpur in the year 2014. 2. RGNF awarded in the year of 2014(F1-17.1/2013-14-SC-wes-42549/(SA-III/Website)), Govt of India.
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Teaching Experience

Name of the	From	To	Total	Type of	Subject
College			Period	Service	Taught
Rammohan College, Kolkata-700009	14.09.2011	31.10.2013	2 years	Guest Lecturer	UG(Hons and Pass, University of Calcutta Regulations)
Charuchandra College, Kolkata-700029	01.08.2012	30.01.2013	1 Year	Guest Lecturer	UG(Hons and Pass, University of Calcutta Regulations)
Bankura Sammilani College, Bankura-722102	06.07.2017	Continued		Full Time (UGC approved Govt. Post)	UG(Hons and Pass)

Faculty Development Course/Programme Attended

1. 4-week Induction/Orientation Programme held from June 26-July 24, 2020; Teaching Learning Centre, Ramanujan College, University of Delhi, MHRD.
2. 2-week Faculty Development Programme on Research Methodology held from October 01-October 15, 2020; Teaching Learning Centre, Ramanujan College, University of Delhi, MHRD.
3. Higher Education : Road Ahead Development Next Generation Academic Leaders held from November 25- December 01, 2020, Department of Commerce & IQAC, Sri Venkateswara College, University of Delhi, MHRD.
4. Advanced Pedagogical Techniques held from October 29-November 05, 2020, Teaching Learning Centre, Ramanujan College, University of Delhi, MHRD.
5. Additional Refresher course (online) held from 20th July-2nd August, 2021, Mizoram University, HRDC.
6. 33rd Orientation Programme/Faculty Induction Programme(online) held from 2nd November-22nd November, 2021, Mizoram University, HRDC
7. UGC-Sponsored Short Term Course on Yoga(Online) From 15-06-2023 to 21-06-2023, Goa University, HRDC.

Extra Curricular Activities

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