

Personal Profile / Curriculum Vitae

Dr. Mridula Sarkar
Assistant Professor

Address

i) Address for Communication:

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Personal Details

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Date of Birth:15/09/1986

Date of Joining:06/07/2017

Web Page Link :Nil

Educational Qualification

MSc.: Bengal Engineering and Science University, Shibpur (2011)

PhD: Indian Institute of Engineering Science and Technology, Shibpur(2018).

(Thesis Title: Studies on Some Truss Design, Welded Beam Design and Pavement Design Optimization Models in Imprecise Environment)

Post-Doctorate Experience : Pursuing

Area of Teaching:

UG (Honours, GE, Programme Courses of Bankura University): All Topics as per Bankura University Syllabus (Mandatory).

PG: Operation Research, Differential Equation (ODEs & PDEs)
CSIR-NET: Linear Algebra, Ordinary Differential Equations (ODEs), Partial Differential Equations(PDEs),Calculus of Variations, Linear Integral Equations,

Research Interest:

Structural Design Optimization under Imprecise Environment (i.e Fuzzy Set Theory, Intuitionistic Fuzzy Set Theory, Neutrosophic Set Theory)

Awards and Fellowships:

- i) Rajiv Gandhi National Fellowship , 2014(F1-17.1/2013-14-SC-wes-42549/(SA-III/Website)),Govt of India.
- ii) CSIR-NET , 2014 (June).

Research Project: Nil

Ph.D. / M. Phil. Thesis Guidance:

Student's Name	Thesis Title	Registration Year	Institution / University
Nil	:-	:-	:-

Member of Personal Body / Editorial Board:Nil

Faculty Development Courses / Programs attended:

Name of the Course / Program	Venue	Duration
Nil	:-	:-

National / International Publications :

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.

List of Books / Book Chapters Published:

1. Neutrosophic Operational Research Volume I, Pons Publishing House, ISBN 978-1-59973-520-7. Page -91.
2. Neutrosophic Operational Research Volume II, Pons Publishing House, ISBN 978-1-59973-537-5. Page-71-180
3. Neutrosophic Optimization and Its Application on Structural Design, Pons Publishing House,Mridula Sarkar,Tapan Kumar Roy, Florentin Smarandache,ISBN 978-1-59973-543-6.

National / International seminars / conferences / workshop attended/ Paper presented:

Sl No	Name of Seminar / Workshop / Symposium	Venue	Duration	State / National / International	Nature of Participation
1.	Concrete Roads: Analysis, Design and Evaluation	Indian Institute of Technology Kharagpur	27-02-2017 — 01-03-2018	National Short Term Course	attained
2.	Concrete Roads: Analysis, Design and Evaluation	University of Calcutta(Department of Pure Mathematics)	24-02-2016 -- 25-02-2016	National Seminar	attained
3.	Recent Development on Optimization and Operation Research	University of Calcutta(Department of Applied Mathematics)	29-07-2015	Workshop	attained
4.	Recent Trends in Mathematics and its Applications	University of Calcutta(Department of Pure (Mathematics))	22-03-2013	National Seminar	attained
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	attained
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

Other Notable Activities:

Teaching Experience

Name of the College	From	To	Total Period	Type of Service	Subject 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-	01.08.2012	30.01.2013	1Year	Guest Lecturer	UG(Hons and Pass,

700029					University of Calcutta Regulations)
Bankura Sammilani College, Bankura-722102	06.07.2017	Continued		Full Time (UGC approved Govt. Post)	UG(Hons and Pass)
Bankura University, Bankura	25.01.2019	Duration of One Semester	Duration of One Semester	Guest Lecturer	PG(ODEs &PDEs)