

Dr. Muzaffar Sarkar Raju

Designation: Assistant Professor in Mathematics (W.B.E.S), Email: <u>msarkar704@gmail.com</u> Specialization: Pure Mathematics Current Position: Assistant Professor, Department of Mathematics, P. R. Thakur Government College, Thakurnagar, North 24 Paraganas, WB

Major Interest Areas: Optimization, Convex Analysis, Metric Spaces, Functional Analysis, Numerical Analysis, Complex Analysis, Abstract Algebra, Linear Algebra

Academic Credentials:

- Ph.D. in Mathematics (2024): Aligarh Muslim University, Aligarh, UP, India (Title of Thesis: *Some Iterative Algorithms for Solving Equilibrium Problems and Minimization Problems*)
- B.Ed. (2016-2018): WBUTTEPA, WB, India
- M.Sc. in Mathematics (2013-2015): University of Kalyani, Kalyani, WB, India
- B.Sc. (Hons.) in Mathematics (2010-2013): University of Kalyani (Krishnath College, Berhampore, Murshidabad, WB, India)

Teaching Experience:

• 03rd January, 2025 – Till date: Assistant Professor of Mathematics, P. R. Thakur Govt. College, Thakurnagar, North 24 Paraganas, WB, India

Courses taken:

• Teaching UG Mathematics under West Bengal State University syllabus for both Major and Minor courses.

Research Interest:

• Optimization, Convex Analysis, Nonlinear Analysis, Variational Inequality Problems, Equilibrium Problems

Research Grants Received:

• None

Research Experience:

• Six years in the field of Optimization, Convex Analysis, Variational Inequality Problems, Equilibrium Problems

List of Publications:

- 1. Q. H. Ansari, F. Babu and M. S. Raju; *Proximal point method with Bregman distance for quasiconvex pseudomonotone equilibrium problems*, Optimization, (2023), DOI : 10.1080/02331934.2023.2252430. Impact factor = 1.6
- 2. Q. H. Ansari, **M. S. Raju** and F. Babu; *Gradient projection method for quasiconvex equilibrium problems*, **Carpathian J. Math.**, **41**(1), 01-12 (2025). **Impact factor = 1.4**
- 3. Q. H. Ansari and M. S. Raju; Splitting extragradient-like algorithms with Bregman distance for solving equilibrium problems, J. Nonlinear Convex Anal., (Accepted for publication). Impact factor = 1.016
- 4. Q. H. Ansari, M. S. Raju and F. Babu; Sequential splitting algorithms with Bregman distance for solving equilibrium problems, J. Nonlinear Var. Anal., (Accepted for publication). Impact factor = 2.5
- F. Babu, M. S. Raju and J. C. Yao, Incremental conditional subgradient methods for minimizing the sum of quasiconvex functions, J. Nonlinear Convex Anal., (Accepted for publication). Impact factor = 1.016

List of Books/Book Chapters:

• None

Patents (if any):

• None

List of Honours/Awards:

- Visited Department of Applied Mathematics, National Sun Yat-sen University, Kaohsiung, Taiwan for collaboration with Prof. Jen-Chih Yao, January 01 - January 19, 2024.
- Received Maulana Azad National Fellowship No. 201920-425194 of University Grant Commission, India for five years during Ph.D. at AMU, Aligarh, India
- Qualified GATE 2021 organised by IIT Bombay
- Qualified CSIR-UGC NET June, 2019
- Qualified CSIR-UGC NET December, 2018
- Qualified WBSET, 2017
- Qualified CSIR-UGC NET December, 2016
- Qualified JAM 2013
- Awarded INSPIRE Scholarship for five years during B.Sc and M.Sc from the Department of Science and Technology, Ministry of Science and Technology, Government of India

• Life Member of Indian Mathematical Society

Editor/or Editorial Board Member/Reviewer:

• Reviewer of some journals of Springer

Lecture Presentations:

- Presented a research paper entitled '*Explicit iterative method for minimizing the sum of non-convex functions*' in the International Conference on Dynamical Systems, Control and their Applications (ICDSCA-2022), organized by Department of Mathematics, IIT Roorkee, India, July 01-03, 2022.
- Presented a research paper entitled 'PPA with Bregman distance for quasiconvex pseudomonotone equilibrium problems' in the 88th Annual Conference of The Indian Mathematical Society, An International Meet, organized by Department of Mathematics, BIT Mesra, Ranchi, India, December 27-30, 2022.
- 3. Presented a research paper entitled 'Gradient projection method for quasiconvex equilibrium problems' in the G-20 Themed International Conference on Variational Analysis and Optimization with Applications (ICVAOA-2023), organized by Department of Mathematics, Aligarh Muslim University, Aligarh, India, September 23-25, 2023.