

Dr. Rajlaxmi Mukherjee (E-mail: ju.rajlaxmi@gmail.com)

• Academic Qualification

- Ph.D. (Sc.), December 2015,
Jadavpur University, Kolkata
- M.Sc. Mathematics, 2007-2009
(Marks obtained: 86.8%)
Jadavpur University, Kolkata
- B.Sc. Mathematics, 2004-2007
(Marks obtained: 83.25%)
Jadavpur University, Kolkata
- Higher Secondary Examination, 2004
(Marks obtained: 89.0%)
Board: WBCHSE
- Secondary Examination, 2002
(Marks obtained: 85.63%)
Board: WBBSE

• Awards and Honors

- *University Gold Medal* for securing 1st rank in M.Sc. Mathematics in 2009.
- *Dr. Sudhangsu Kumar Banerjee Memorial Silver Medal* for securing the highest aggregate of marks in M.Sc. Mathematics in 2009.
- *S. N. Bando Memorial Gold Medal* for securing the highest aggregate of marks among all the courses in M.Sc. in 2009.
- *D. N. Dutta Memorial Gold Centred Silver Medal* for securing the highest aggregate of marks among all the courses in M.Sc. in 2009.
- Achieved 74th rank in CSIR-UGC NET (December 2009).

• Research Projects:

- One **Minor Research Project (funded by UGC)** ongoing,
Title of the Project: *Morita Invariants of Semirings in terms of Fuzzy sets.*

• Publications:

- 1) **Semilattice congruence and fuzzy semilattice congruence on po- Γ -semigroup via its operator semigroups**, *East-West Journal of Mathematics*, 13 (2) (2011), 151-162.
- 2) **On fuzzy ideals of po- Γ -semigroups**, *International Electronic Journal of Pure and Applied Mathematics*, 5 (2) (2012), 79-93.
- 3) **A realization of intuitionistic fuzzy ideals of semirings**, *Annals of Fuzzy Mathematics and Informatics*, 7 (3) (2014), 529-542.

- 4) **Fuzzy operands of semigroups**, *Fuzzy Information and Engineering*, 6 (2) (2014), 235-244.
- 5) **On additively regular seminearrings**, *Semigroup Forum*, 88 (3) (2014), 541-554.
- 6) **An introduction to operator seminearrings of a near- Γ -semiring**, *Southeast Asian Bulletin of Mathematics*, 38 (6) (2014), 887-905.
- 7) **On additively commutative near-ring congruences on seminearrings**, *Semigroup Forum*, 91 (3) (2015), 573-583.
- 8) **Prime fuzzy ideals, completely prime fuzzy ideals of po- Γ -semigroups based on fuzzy points**, *Semigroups, Algebras and Operator Theory, Kochi, India, February 2014*, Springer Proceedings in Mathematics and Statistics Volume 142 (2015), 105-121.
- 9) **Erratum to: On additively regular seminearrings**, *Semigroup Forum*, 93 (3) (2016), 629-631.
- 10) **On additively completely regular seminearrings**, *Communications in Algebra*, Published online: 21st February, 2017.