

Dr. Rajlaxmi Mukherjee
Assistant Professor
Department of Mathematics (UG & PG)
Garhbeta College, Paschim Medinipur

(E-mail: ju.rajlaxmi@gmail.com, rajlaxmimukherjee@garhbetacollege.ac.in)



● **Academic Qualification**

- **Ph.D. (Sc.), December 2015,**
Institution: Jadavpur University
- **M.Sc. Mathematics, 2007-2009**
Marks obtained: 86.8%
Institution: Jadavpur University
- **B.Sc. Mathematics, 2004-2007**
Marks obtained: 83.25%
Institution: Jadavpur University
- **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. Sudhansu 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).

● **Teaching Experience:**

- Teaching UG & PG courses in Mathematics as an Assistant Professor in the Department of Mathematics, Garhbeta College (Date of joining: 30.03.2015).

● **Research Project:**

- Completed one **Minor Research Project (funded by UGC)**,
Duration: 22nd February, 2017-21st February, 2019
Title of the Project: *Morita Invariants of Semirings in terms of Fuzzy sets.*

● **Ph. D. Supervision:**

- Presently acting as a Co-supervisor of Tuhin Manna who has been registered for Ph. D. (Science) degree in Jadavpur University (**Index No.- 35/18/Maths./25**).

● **Research Articles:**

1. Rajlaxmi Mukherjee (Pal), Pavel Pal; **Some Additional Morita Invariants of Semirings**, *Southeast Asian Bulletin of Mathematics* (ISSN: 0129-2021), Publisher: Southeast Asian Mathematical Society, Volume: 45, Issue: 01, 81-94, Publication date: April, 2021, Link: <http://www.seams-bull-math.ynu.edu.cn>
2. Pavel Pal, Sugato Gupta, Rajlaxmi Mukherjee, Sujit Kumar Sardar; **Isomorphisms of Some Lattices Obtained from Morita Context of Semigroups Using Fuzzy Notions**, *Southeast Asian Bulletin of Mathematics* (ISSN: 0129-2021), Publisher: Southeast Asian Mathematical Society, Volume: 44, Issue: 05, 703-718, Publication date: November, 2020, Link: <http://www.seams-bull-math.ynu.edu.cn>
3. Pavel Pal, Kamalika Chakraborty, Rajlaxmi Mukherjee (Pal), Sujit Kumar Sardar; **On (bi) linked group congruences on (bi) linked semigroups**, *Afrika Matematika (E ISSN: 2190-7668, Print ISSN: 1012-9405)*, Publisher: Springer, Volume: 32, Issue: 01, 253–274, published online: August, 2020, DOI: [10.1007/s13370-020-00824-y](https://doi.org/10.1007/s13370-020-00824-y)
4. Rajlaxmi Mukherjee (Pal), Tuhin Manna, Pavel Pal; **On additively completely regular seminearrings: II**, *Communications in Algebra* (Print ISSN: 0092-7872, Online ISSN: 1532-4125), Publisher: Taylor & Francis, Volume: 47, Issue: 05, 1954–1963, published online: January, 2019, DOI: [10.1080/00927872.2018.1524011](https://doi.org/10.1080/00927872.2018.1524011)
5. Rajlaxmi Mukherjee (Pal), Pavel Pal, Tuhin Manna, Sujit Kumar Sardar; **A note on additively completely regular seminearrings**, *Semigroup Forum* (Electronic ISSN: 1432-2137, Print ISSN: 0037-1912), Publisher: Springer, Volume: 100, Issue: 01, 339–347, published online: November, 2018, DOI: [10.1007/s00233-018-9983-9](https://doi.org/10.1007/s00233-018-9983-9)
6. Rajlaxmi Mukherjee (Pal), Pavel Pal, Sujit Kumar Sardar; **On additively completely regular seminearrings**, *Communications in Algebra* (Print ISSN: 0092-7872, Online ISSN: 1532-4125), Publisher: Taylor & Francis, Volume: 45, Issue: 03, 5111-5122, published online: February, 2017, DOI: [10.1080/00927872.2017.1293970](https://doi.org/10.1080/00927872.2017.1293970)
7. Sujit Kumar Sardar, Rajlaxmi Mukherjee; **Erratum to: On additively regular seminearrings**, *Semigroup Forum* (Electronic ISSN: 1432-2137, Print ISSN: 0037-1912), Publisher: Springer, Volume: 93, Issue: 03, 629-631, published online: September, 2015, DOI: [10.1007/s00233-015-9749-6](https://doi.org/10.1007/s00233-015-9749-6)
8. Rajlaxmi Mukherjee (Pal), Sujit Kumar Sardar, Pavel Pal; **On additively commutative near-ring congruences on seminearrings**, *Semigroup Forum* (Electronic ISSN: 1432-2137, Print ISSN: 0037-1912), Publisher: Springer, Volume: 91, Issue: 03, 573-583, published online: December, 2014, DOI: [10.1007/s00233-014-9664-2](https://doi.org/10.1007/s00233-014-9664-2)
9. Sujit Kumar Sardar, Rajlaxmi Mukherjee; **An introduction to operator seminearrings of a near- Γ -semiring**, *Southeast Asian Bulletin of Mathematics* (ISSN: 0129-2021), Publisher: Southeast Asian Mathematical Society, Volume: 38, Issue: 06, 887-905, Publication date: December, 2014, Link: <http://www.seams-bull-math.ynu.edu.cn>
10. Pavel Pal, Sujit Kumar Sardar, Rajlaxmi Mukherjee; **Fuzzy Operands of Semigroups**, *Fuzzy Information and Engineering* (Print ISSN: 1616-8658, Online ISSN: 1616-8666), Publisher: Taylor & Francis, Volume: 06, Issue: 02, 235-244, published online: June, 2014, DOI: [10.1016/j.fiae.2014.08.007](https://doi.org/10.1016/j.fiae.2014.08.007)
11. Rajlaxmi Mukherjee, Debabrata Mandal, Sujit Kumar Sardar; **A realization of intuitionistic fuzzy ideals of semirings**, *Annals of Fuzzy Mathematics and Informatics* (Print ISSN: 2093–9310; Electronic ISSN: 2287–6235), Publisher: Research Institute for Basic Science, Wonkwang University, South Korea, Volume: 07, Issue: 03, 529-542, published online: March, 2014, Link: <http://www.afmi.or.kr/>
12. Sujit Kumar Sardar, Rajlaxmi Mukherjee; **On additively regular seminearrings**, *Semigroup Forum* (Electronic ISSN: 1432-2137, Print ISSN: 0037-1912), Publisher: Springer, Volume: 88, Issue: 03, 541-554, published online: October, 2013, DOI: [10.1007/s00233-013-9538-z](https://doi.org/10.1007/s00233-013-9538-z)

13. Sujit Kumar Sardar, Pavel Pal, Rajlaxmi Mukherjee; **Semilattice congruence and fuzzy semilattice congruence on po- Γ -semigroup via its operator semigroups**, *East-West Journal of Mathematics* (Print ISSN: 0125–2526; Electronic ISSN: 1513-489X), Publisher: Department of Mathematics, Faculty of Science, Mahidol University, Bangkok, Thailand, Volume: 13, Issue: 02, 151-162, publication date: July, 2011,
Link: <http://eastwestmath.org/index.php/ewm/issue/view/19>

• **Chapter in edited volume:**

1. Pavel Pal, Sujit Kumar Sardar, Rajlaxmi Mukherjee (Pal); **Prime fuzzy ideals, completely prime fuzzy ideals of po- Γ -semigroups based on fuzzy points**, Romeo P., Meakin J., Rajan A. (eds) *Semigroups, Algebras and Operator Theory: Springer Proceedings in Mathematics & Statistics* (Print ISBN: 978-81-322-2487-7; Online ISBN: 978-81-322-2488-4), Publisher: Springer, Volume: 142, 105-121, published online: July, 2015, DOI: [10.1007/978-81-322-2488-4_9](https://doi.org/10.1007/978-81-322-2488-4_9)

• **Contributory talks:**

1. Presented a paper entitled “**On decompositions of additively completely regular seminearrings**” in the **International Conference on Analysis, Algebra, Combinatorics and their Applications (ICAADCA 2020)**, organized by the Department of Mathematics, Jadavpur University during January 20-22, 2020.
2. Presented a paper entitled “**On additively completely regular seminearrings**” in the **International Conference on Semigroups and Applications (ICSAA 2019)**, organized by the Department of Mathematics, Cochin University of Science and Technology during December 09-12, 2019.
3. Presented a paper entitled “**On some aspects of additive regularity in seminearrings**” in the **National Seminar on Visva-Bharati Meet on Algebra and its Applications -2018**, organized by the Department of Mathematics, Visva-Bharati during March 24-25, 2018.
4. Presented a paper entitled “**Characterization of seminearrings which are subdirect products of a distributive lattice and a zero-symmetric near-ring**” in the **International Seminar on Topology, Analysis and Algebra (ISTAA) -2017**, organized by the Department of Mathematics, University of North Bengal during February 11-12, 2017.
5. Presented a paper entitled “**A study of congruences on additively Clifford seminearrings**” in the **International Conference on Algebra and Discrete Mathematics (ICADM-2014)**, organized by the Department of Mathematics, Government College, Kattappana during March 04-06, 2014.
6. Presented a paper entitled “**A note on near-ring congruences on additively inverse seminearrings**” in the **International Conference on Semigroups, Algebras and Operator Theory (ICSAOT)**, organized by the Department of Mathematics, Cochin University of Science and Technology, during February 26-28, 2014.
7. Presented a paper entitled “**On fuzzy ideals of po- Γ -semigroups**” in the **National Conference on Mathematical Sciences and Applications (NCMSA-2013)**, organized by the Department of Mathematics, School of Science and Humanities, Karunya University, Coimbatore, during March 14-15, 2013.
8. Presented a paper entitled “**Intuitionistic fuzzy h-ideal of matrix hemiring $S_2 = \begin{pmatrix} R & \Gamma \\ S & L \end{pmatrix}$** ” in the **National Seminar on Algebra, Analysis and Discrete Mathematics (NSAADM 2012)**, organized by the Department of Mathematics, University of Kerala, Thiruvananthapuram, during February 8-10, 2012.