

## Dr. Pavel Pal

### Office Address

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### Education

- **Jadavpur University** **Kolkata, India**  
Ph.D. (Sc.) February 2015  
*Dissertation Title:* “A study of some aspects of semigroups and partially ordered  $\Gamma$ -semigroups in terms of fuzzy sets .”  
*Supervisor :* Prof. Sujit Kumar Sardar
- **Jadavpur University** **Kolkata, India**  
M.Sc. Mathematics (85.6%) 2007-2009
- **Jadavpur University** **Kolkata, India**  
B.Sc. Mathematics(80.08%) 2004-2007

### Professional Experience

- Full time Lecturer of Mathematics in School of Applied Sciences, Haldia Institute of Technology, 31st August, 2009-9th July, 2010.
- UGC Junior Research Fellow, Jadavpur University, 16th August, 2010-15th August, 2012.
- UGC Senior Research Fellow, Jadavpur University, 16th August, 2012-13th January, 2015.
- Assistant Professor, Department of Mathematics, Government General Degree College, Singur, 25th February, 2015-31st March, 2015.
- Assistant Professor, Department of Mathematics, Jagannath Kishore College, Purulia, 1st April, 2015-23rd July, 2015.
- Assistant Professor, Department of Mathematics, Bankura University, Bankura, 24th July, 2015-till date.

### Awards and Honors

- Achieved 158th rank in CSIR-UGC NET (December 2009).
- Achieved 36th rank in GATE (2010).

## Research interests

- Bi-ordered sets;
- Representation theory of semigroups;
- Theory of near-algebras;
- Fuzzy semigroup theory.

## Publications

- (1) Sujit Kumar Sardar, Pavel Pal, Rajlaxmi Mukherjee, **Semilattice congruence and fuzzy semi-lattice congruence on po- $\Gamma$ -semigroup via its operator semigroups**, *East-West Journal of Mathematics*, 13 (2) (2011), 151-162.
- (2) Sujit Kumar Sardar, Pavel Pal, Samit Kumar Majumder, Rajlaxmi Mukherjee, **On fuzzy ideals of po- $\Gamma$ -semigroups**, *International Electronic Journal of Pure and Applied Mathematics*, 5 (2) (2012), 79-93.
- (3) Pavel Pal, Samit Kumar Majumder, Sujit Kumar Sardar, **Anti fuzzy ideal extension of semigroups**, *Journal of Hyperstructures*, 1 (1) (2012), 27-40.
- (4) Sujit Kumar Sardar, Samit Kumar Majumder, Pavel Pal, **Bipolar valued fuzzy translation in semigroups**, *Mathematica Aeterna*, 2 (7) (2012), 597-607.
- (5) Pavel Pal, Samit Kumar Majumder, Sujit Kumar Sardar, **Characterization of  $\Gamma$ -semigroups in terms of anti fuzzy ideals**, *Annals of Fuzzy Mathematics and Informatics*, 5 (3) (2013), 463-473.
- (6) Sujit Kumar Sardar, Pavel Pal, Samit Kumar Majumder, Parimal Das, **Atanassov's intuitionistic fuzzy ideals of po- $\Gamma$ -semigroups**, *Kragujevac Journal of Mathematics*, 37 (1) (2013), 87-101.
- (7) Sujit Kumar Sardar, Pavel Pal, **Prime fuzzy ideals, weakly prime fuzzy ideals of  $\Gamma$ -semigroups**, *Fuzzy Information and Engineering*, 5 (4) (2013), 383-397.
- (8) Pavel Pal, Sujit Kumar Sardar, Rajlaxmi Mukherjee, **Fuzzy operands of semigroups**, *Fuzzy Information and Engineering*, 6 (2) (2014), 235-244.
- (9) Bibhas Chandra Saha, Samit Kumar Majumder, Pavel Pal, Sujit Kumar Sardar, **Properties of fuzzy ideals with thresholds  $(\alpha, \beta)$  of semigroups**, *Mathematica Aeterna*, 4 (8) (2014), 869-876.
- (10) Rajlaxmi Mukherjee (Pal), Sujit Kumar Sardar, Pavel Pal, **On additively commutative near-ring congruences on seminearrings**, *Semigroup Forum*, 91 (3) (2015), 573-583.
- (11) Bibhas Chandra Saha, Samit Kumar Majumder, Pavel Pal, Sujit Kumar Sardar, **Action of fuzzy translation operators in semigroups**, *Mathematica Aeterna*, 5 (1) (2015), 1-10.
- (12) Pavel Pal, Samit Kumar Majumder, Bijan Davvaz, Sujit Kumar Sardar, **Regularity of po- $\Gamma$ -semigroups in terms of fuzzy subsemigroups and fuzzy bi-ideals**, *Fuzzy Information and Engineering*, 7 (2) (2015), 165-182.
- (13) Bibhas Chandra Saha, Samit Kumar Majumder, Pavel Pal, Sujit Kumar Sardar, **Fuzzy, rough, rough fuzzy interior ideals of ternary semigroups**, *Annals of Fuzzy Mathematics and Informatics*, 10 (1) (2015), 181-192.
- (14) Pavel Pal, Sujit Kumar Sardar, Rajlaxmi Mukherjee, **Prime fuzzy ideals, completely prime fuzzy ideals of po- $\Gamma$ -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.

- (15) Rajlaxmi Mukherjee (Pal), Pavel Pal, Sujit Kumar Sardar, **On additively completely regular seminearrings**, *Communications in Algebra*, To appear.

## Talks (Contributed)

- (1) Presented a paper entitled **A realization of semilattice congruence and fuzzy semilattice congruence on partially ordered  $\Gamma$ -semigroups** in the International Conference on Algebra and Discrete Mathematics (ICADM-2013), organized by the Department of Mathematics, Government College, Kattappana during March 04-06, 2014.
- (2) Presented a paper entitled **Prime fuzzy ideals, weakly prime fuzzy ideals of  $\Gamma$ -semigroups** 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.
- (3) Presented a paper entitled **Semilattice congruence and fuzzy semilattice congruence on po- $\Gamma$ -semigroup via its operator 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.
- (4) Presented a paper entitled **Regularity of po- $\Gamma$ -semigroups in terms of fuzzy subsemigroups and fuzzy bi-ideals** 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.

## Workshops Attended

- (1) **National Workshop and Conference on Discrete Mathematics and its Applications (NWCDMA 2014)** organized by the Department of Mathematics, Jadavpur University, during March 10-14, 2014.
- (2) **Instructional Workshop on Semigroups and Applications** organized by the Department of Mathematics, Cochin University of Science and Technology, during February 22-24, 2014.
- (3) **National Workshop on Computer Algebra Systems (CAS)** held at Bhaskaracharya Pratishthana, Pune, during January 27-31, 2011.