



UNIVERSITY OF CALCUTTA

FACULTY ACADEMIC PROFILE / CV

1. Full name of the faculty member : Dr. Sunil Kumar Maity
2. Designation : Assistant Professor
3. Specialization : Abstract Algebra
4. Passport size photograph :



5. **Contact information :**

*Department of Pure Mathematics, University of Calcutta,
35, Ballygunge Circular Road, Kolkata - 700019.*

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6. **Academic qualifications :**

College/University from which the degree was obtained	Abbreviation of the degree
University of Calcutta	B. Sc.
University of Calcutta	M. Sc.
University of Calcutta	Ph. D.

7. **Positions held/holding :**

- (i) Assistant Professor in Mathematics in Raiganj (University) College [at present Raiganj University] from 08.11.2005 to 11.06.2007.
- (ii) Assistant Professor in Mathematics in Burdwan University from 12.06.2007 to 20.07.2016.
- (iii) Assistant Professor in Pure Mathematics in Calcutta University from 21.07.2016 to till date.

8. Research interests :

- *Semigroup Theory*
- *Semiring Theory*

9. Research guidance :

- Number of researchers awarded Ph.D. degrees : 02 (in Burdwan University)
- Number of researchers pursuing Ph.D. : 04

10. Projects : Nil

- *Completed projects :*
- *Current projects :*

11. Select list of publications :

a) Journals :

- *On Quasi Completely Inverse Semirings*, Southeast Asian Bulletin of Mathematics, **41 (2017)**, 879–886. **(with R. Ghosh & R. Chatterjee)**
- *The Congruence Y^* on completely regular semirings*, Quasigroups and Related Systems, **25 (2017)**, 279 - 288.
- *Retractive nil-extensions of completely simple semirings*, Quasigroups and Related Systems, **26 (2018)**, 103 - 108. **(with R. Chatterjee & R. Ghosh)**
- *Completely Archimedean Semirings*, Discussiones Mathematicae-General Algebra and Applications **Vol 38 (2018)**, 115–129. **(with R. Chatterjee)**
- *Bipartite and Planar Power Graph of Finite Groups*, Southeast Asian Bulletin of Mathematics, **Vol 39 (2015)**, 539-543.
- *The Congruence Y^* on GV-semigroups*, Afrika Matematika, **Vol 26 (2015)**, 1371-1378.

- On Quasi Completely Regular Semirings, *Semigroup Forum*, **Vol 89, no. 1 (2014)**, 422-430. **(with R. Ghosh)**
- On Balanced Order Relations and the Normal Hull of Completely Simple Semirings, *Discussiones Mathematicae - General Algebra and Applications*, **Vol 34 (2014)**, 75-84.
- Congruences on bands of π -groups, *Discussiones Mathematicae - General Algebra and Applications*, **Vol 33 (2013)**, 5 - 11.
- Nil-extensions of Completely Simple Semirings, *Discussiones Mathematicae - General Algebra and Applications*, **Vol 33 (2013)**, 201-209. **(with R. Ghosh)**
- Clifford Congruences on Generalized Quasi-orthodox GV-semigroups, *Discussiones Mathematicae - General Algebra and Applications*, **Vol 33 (2013)**, 137-145.
- On Completely Regular Semirings, *Bull. Cal. Math. Soc.*, **Vol 98, no. 4 (2006)**, 319 - 328. **(with M. K. Sen & K. P. Shum)**
- Congruences on additive inverse semirings, *Southeast Asian Bulletin of Mathematics*, **Vol 30, no. 3 (2006)**, 473 - 484.
- Matrix semiring, *J. Korea Soc. Math. Educ. Se. B Pure Appl. Math.*, **Volume 13, no. 2 (2006)**, 95 - 111. **(with M. K. Sen)**
- Regular Additive Inverse Semirings, *Acta Math. Univ. Comenian. (N. S.)*, **Vol 75, no. 1 (2006)**, 137-146. **(with M. K. Sen)**
- Clifford semirings and generalized Clifford semirings, *Taiwanese Journal of Mathematics*, **Vol 9, no. 3 (2005)**, 433 - 444. **(with M. K. Sen & K. P. Shum)**
- Completely simple semirings, *Bull. Cal. Math. Soc.*, **Vol 97, no. 2 (2005)**, 163 - 172. **(with M. K. Sen & H. J. Weinert)**
- On semirings which are distributive lattices of rings, *Kyungpook Math. J.*, **Vol 45, no. 1 (2005)**, 21 - 31.

- A note on orthodox additive inverse semirings, *Acta Univ. Palack. Olomuc. Fac. Rerum Natur. Math.*, **Vol 43 (2004)**, 149 – 154. **(with M. K. Sen)**
- Semirings embedded in a completely regular semirings, *Acta Univ. Palack. Olomuc. Fac. Rerum Natur. Math.*, **Vol 43 (2004)**, 143 – 148. **(with M. K. Sen)**
- Clifford semifields, *Discussiones Mathematicae - General Algebra and Applications*, **Volume 24, no. 1 (2004)**, 125 – 135. **(with M. K. Sen)**

b) Books :

- Applications of Calculus : Theory and Problems (Third Edition), Academic Publishers (2016), ISBN : 978-93-80599-26-7 **(With Sitanshu Bandyopadhyay)**

c) Conference/seminar volumes :

- Semisimple Clifford semirings, *Advances in algebra, Proceedings of ICM - 2002*, World Sci. Publ., River Edge, NJ **(2003)**, 221-231. **(with M. K. Sen & K. P. Shum)**

12. Membership of Learned Societies : Life member of Indian Mathematical Society