



UNIVERSITY OF CALCUTTA

FACULTY ACADEMIC PROFILE / CV

1. Full name of the faculty member : Dr. Sunil Kumar Maity
2. Designation : Associate 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.*

e-mail : sskmaity@gmail.com

Mobile no. -

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 07.11.2017.
- (iv) Associate Professor in Pure Mathematics in Calcutta University from 08.11.2017 to till date.

8. Research interests :

- *Semigroup Theory*
- *Semiring Theory*
- *Topological Semigroup*
- *Topological Semiring*

9. Research guidance :

- Number of researchers awarded Ph.D. degrees : 03 (in Burdwan University)
- Number of researchers pursuing Ph.D. : 06

10. Projects : Nil

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

11. Select list of publications :

a) Journals :

- On spined product of quasi rectangular skew-rings, *Southeast Asian Bulletin of Mathematics*, Vol 45 (2021) (to appear) (with R. Chatterjee)
- Subdirect product of an idempotent semiring and a b-lattice of skew-rings, *Asian European Journal of Mathematics*, (2021) published online <https://doi.org/10.1142/S1793557122500978> (with R. Debnath & A. K. Bhuniya)
- Leavitt path algebras for power graphs of finite groups, *Journal of Algebra and its Applications*, (2021) published online <https://doi.org/10.1142/S0219498822502097> (with Sumanta Das & M. K. Sen)

- Semilattice of topological groups, *Communications in Algebra*, (2021) <https://doi.org/10.1080/00927872.2021.1909606> published online (with Monika Paul)
- The congruence Y^* on quasi completely regular semirings, *Asian-European Journal of Mathematics*, published online <https://doi.org/10.1142/S1793557122500243> (with R. Ghosh)
- On order prime divisor graph of finite groups, *Discussiones Mathematicae - General Algebra and Applications*, Vol - 41 (2021), 419 - 437. (with M. K. Sen & Sumanta Das)
- Von Neumann regular semimodule, *An. Stiint. Univ. Al. I. Cuza Iasi. Mat. (N.S.)*, Vol LXVII, no. 2 (2021), 279 - 294. (with M. K. Sen & Sabnam Swomin)
- Congruences on quasi completely regular semirings, *Semigroup Forum*, Vol 102, no. 3 (2021), 725 - 736. (with R. Ghosh)
- Inverse semimodules, *Asian-European Journal of Mathematics*, Vol 14, No. 2 (2021), 2150022 (14 pages) DOI: 10.1142/S1793557121500224 (with M. K. Sen & A. K. Bhuniya)
- Congruences on nil-extension of b-lattice of skew-rings, *Quasigroups and Related Systems*, Vol 27, no 2 (2019), 273 - 280. (with U. Kapuria & B. Mitra)
- Quasi orthodox quasi completely regular semirings, *Southeast Asian Bull. Math.* Vol 43, issue - 6 (2019), 847 - 854. (with R. Ghosh)
- b-lattices of nil-extensions of rectangular skew-rings, *Quasigroups and Related Systems*, Vol 27, no. 1 (2019), 81 - 90 (with R. Chatterjee)
- Leavitt path algebras with coefficients in a Clifford semifield, *Communications in Algebra*, Vol 47, no. 2 (2019), 660 - 675. (with R. Sen Gupta & M. K. Sen)

- Retractive nil-extensions of completely simple semirings, *Quasigroups and Related Systems*, **Vol 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)**
- On Quasi Completely Inverse Semirings, *Southeast Asian Bulletin of Mathematics*, **Vol 41 (2017)**, 879-886. **(with R. Ghosh & R. Chatterjee)**
- The Congruence Y^* on completely regular semirings, *Quasigroups and Related Systems*, **Vol 25 (2017)**, 279 - 288.
- 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.*, **Vol 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*, **Vol 24, no. 1 (2004)**, 125 - 135. **(with M. K. Sen)**

b) Books :

- Topics in Abstract Algebra (Third Edition), University Press (2019), ISBN : 978-93-86235-70-1 (**With M. K. Sen, Shamik Ghosh and Parthasarathi Mukhopadhyay**)
- 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**)

d) **Other publications : Nil**

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

13. Patents : Nil

14. Invited lectures delivered : 04

15. Awards : Nil

16. Other notable activities : Reviewer of Mathematical Reviews, USA.

Date : 12/09/2021