

Amplify Sawkmie

Personal Information

Joined on **21.04.2017**
E-mail **ampsawkmie@gmail.com**
Mobile No. **9862202097**

Ph.D in Mathematics

Year **2018**
Institute **North-Eastern Hill University, Shillong**
Supervisor **Dr. Madan Mohan Singh**
Thesis title **Characterization of the graphs and digraphs arising from power congruences**

Education

- **CSIR-JRF NET**
- **M.Sc in Mathematics**, North-Eastern Hill University, Shillong
- **B.Sc in Mathematics**, St. Edmund's College, Shillong

Research Publications

1. A. Sawkmie, M.M.Singh, "**Digraphs associated with the k th power map on the quotient ring of polynomials over finite fields**", *Journal of Algebra and Its Applications*, Vol. 18 (2019).
2. A. Sawkmie, M.M.Singh, "**On the uniqueness of the factorization of power digraphs modulo n** ", *Rendiconti del Seminario Matematico della Università di Padova*, Vol. 140 (2018), 185 - 219.
3. A. Sawkmie, M.M.Singh, "**On the tree structure of the power digraphs modulo n** ", *Czechoslovak Mathematical Journal*, Vol. 65 (2015), 923–945.

Papers Presented

1. "**Factorization of digraphs associated with the k th power map on quotient rings of polynomials over finite fields**, presented at a *National Seminar on "Recent Advancements in Science and Technology"*, organized by Union Christian College, Umiam, June 12th to 14th, 2019.
2. "**On the uniqueness of the factorization of the digraphs associated with the congruences $x^k \equiv y \pmod{n}$** ", presented at the *UGC SAP National Sponsored Seminar on "Current Trends in Mathematics"*, organized by the Department of Mathematics, North-Eastern Hill University, Shillong, from March 14th to 16th, 2017.
3. "**On the tree structure of the digraphs associated with the congruence $a^k \equiv b \pmod{n}$** ", presented at the *National Conference on "Mathematics and its Applications"*, organized by the Department of Mathematics, Cotton College, Guwahati, from October 21st to 22nd, 2016.

Seminars/Workshops Completed

1. One Week Faculty Development Programme on "*Research Writing & Mathematical Typesetting with LaTeX*", organized by the Teaching Learning Centre, Ramanujan College, University of Delhi, in collaboration with the Department of Statistics, RamLal Anand College, University of Delhi, from December 07 to 13, 2023.
2. One Week Faculty Development Programme on "*National Education Policy-2020*", organized by the Teaching Learning Centre, Ramanujan College, University of Delhi, from November 16 to 22, 2023.
3. One Week Faculty Development Programme on "*Academic Research Writing*", organized by the Teaching Learning Centre, Ramanujan College, University of Delhi, from August 23 to September 03, 2023.
4. Faculty Development Programme on "*Mentoring Skills for Millennial Educators*", organized by the Internal Quality Assurance Cell, St. Edmund's College, Shillong, in collaboration with the Centre for Professional Excellence & Lifelong Learning, Kristu Jayanti College, Bengaluru, from March 06 to 14, 2023.
5. One Week Faculty Development Programme on "*Open Source Tools for Research*", organized by the Teaching Learning Centre, Ramanujan College, University of Delhi, from December 27, 2022 to January 02, 2023.
6. Seminar to Celebrate the 180th Anniversary of the "*Khasi Written Language & Literature*", organized by the Khasi Department, St. Edmund's College, Shillong, on December 9, 2022.
7. Two Week Refresher Course on "*Mathematical Sciences*", organized by the Teaching Learning Centre, Ramanujan College, University of Delhi, from September 26 to October 10, 2022.
8. One Week Faculty Development Programme on "*Advanced Pedagogical Techniques*", organized by the Teaching Learning Centre, Ramanujan College, University of Delhi, from September 19 to 25, 2022.
9. One Week Faculty Development Programme on "*NEP-2020, New Trends in Higher Education*", organized by the Teaching Learning Centre, Ramanujan College, University of Delhi, from August 29 to September 04, 2022.
10. One Week Faculty Development Programme on "*E-Content Development*", organized by the Teaching Learning Centre, Ramanujan College, University of Delhi, from August 20 to 26, 2022.
11. One Week Faculty Development Programme on "*Academic Administration*", organized by the Teaching Learning Centre, Ramanujan College, University of Delhi, from August 06 to 12, 2022.
12. Innovation Ambassador training "*Advanced Level*", conducted by the Ministry of Education's Innovation Cell & AICTE, during the calendar year 2021 – 22.

13. Innovation Ambassador training "*Foundation Level*", conducted by the Ministry of Education's Innovation Cell & AICTE, during the calendar year 2021 – 22.
14. Regional Meet of the "*Institutions's Innovation Council, MoE's Innovation Cell*", organized by Assam Royal Global University, Guwahati, on August 04, 2022.
15. UGC-Sponsored Interdisciplinary Refreshers Course on "*Basic Mathematical and Statistical Tools for Research*", organized by the Human Resource Development Centre, Manipur University, from February 12 to 25, 2022.
16. UGC-Sponsored "*Faculty Induction Programme*" organized by the Human Resource Development Centre, North-Eastern Hill University, Shillong, from March 11 to April 10, 2021.
17. Short Term Course in "*SPSS*", organized by the Human Resource Development Centre, North-Eastern Hill University, Shillong, from February 15 to 20, 2021.
18. Teacher's Enrichment Workshop on "*Algebra & Multivariate Calculus*", organized by the National Centre for Mathematics, from January 08 to February 14, 2021.
19. Workshop on "*Achieving Excellence in Higher Education : Strategies and Efficacy*", organized by the Internal Quality Assurance Cell, St. Edmund's College, Shillong, on April 23, 2018.
20. Workshop on "*Higher Education : Reshaping the Learning Space*", organized by the Internal Quality Assurance Cell, St. Edmund's College, Shillong, on August 19, 2017.
21. UGC SAP National Sponsored Seminar on *Current Trends in Mathematics*, held at North-Eastern Hill University, Shillong, organized by the Department of Mathematics, North-Eastern Hill University, from March 14 to 16, 2017.
22. Science Academies' Lecture Workshop on *Hyperbolic Partial Differential Equation and Conservation Laws*, held at North-Eastern Hill University, Shillong, organized by the Department of Mathematics, and the Department of Basic Sciences & Social Sciences, North-Eastern Hill University, from February 22 to 25, 2017.
23. National Conference on *Mathematics and its Applications-2016*, held at Cotton College, Guwahati, organized by the Department of Mathematics, Cotton College, Guwahati, from October 21 to 22, 2016.
24. UGC SAP NEHU Workshop and National Conference on *Contemporary Topics in Mathematics*, held at North-Eastern Hill University, Shillong, organized by the Department of Mathematics, North-Eastern Hill University, from December 16 to 17, 2014.
25. *NBHM Sponsored Mathematical Olympiad Orientation Programme* held at North-Eastern Hill University, Shillong, organized by the Department of Mathematics, North-Eastern Hill University, from December 8 to 11, 2014.

26. International Research School and Conference on *Fourier Analysis of Groups in Combinatorics*, held at North-Eastern Hill University, Shillong, organized by the Department of Mathematics, North-Eastern Hill University, from November 18 to 30, 2013.
27. Workshop on *Mathematics Teaching for School Teachers*, held at North-Eastern Hill University, Shillong, organized by the Department of Mathematics, North-Eastern Hill University, from October 24 to 26, 2013.
