

Shivangi Asthana

Mathematics Researcher | Ph. D.

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Key Subject:

Number theory, Analysis, Algebra, Differential equations

Targeting challenging assignments in teaching & Research Field. Currently looking for a full-time teaching position. I would like to utilize my skills and experience as well as my passion for teaching to train and educate young minds. Moreover, I would like to work with other professionals to improve my skills as an educator which will allow me to further contribute in the field of education.

EDUCATION SUMMARY

- Ph.D. (Mathematics), 2015- 2020: North- Eastern Hill University, Shillong, India.
- Ph.D. Thesis Title: A study on Diophantine equations and related problems. (Supervisor: Dr. M. M. Singh)
- M.Sc. First Class, 2011-2013; North-Eastern Hill University, Shillong, India.
- B.Sc. First Class, 2008-2011; North-Eastern Hill University, Shillong, India.
 - Intermediate, First Class, 2006; Central Board of Secondary Education, 65%
 - Matriculation, First Class, 2004; Central Board of Secondary Education, 80%

WORK EXPERIENCE

- **19 April, 2021 – 30 June, 2021:** Visiting Faculty, Maharishi University of Information and Technology, Lucknow.
- **19 March, 2021- 08 July, 2021:** Guest Faculty, Era College of Pharmacy, Era University, Lucknow.

- **30 July, 2021** – continuing: Guest Faculty, Era University, Lucknow.
- **1st October, 2021 – 30th January, 2022** – Visiting Faculty, Maharishi University of Information and Technology, Lucknow.

RESEARCH WORK

List of Publications:

- On the Diophantine equation $2^x + 7^y = z^2$, **S. Asthana**, M. M. Singh, Int. J. Research in Advent Technology, 7(5), 13-14 (2019).
- On the Diophantine equation $3^x + 13^y = z^2$, **S. Asthana**, M. M. Singh, Int. J. Pure and Applied Mathematics, 114(2), 301-304 (2017), Academic Press.
- On the Diophantine equation $8^x + 113^y = z^2$, **S. Asthana**, M. M. Singh, Int. J. Algebra, 11(5), 225-230 (2017), Hikari Ltd.
- On the Diophantine equation $53^x + 143^y = z^2$, **S. Asthana**, M. M. Singh, Annals of Pure and Applied Mathematics, 19(2), 193-196 (2019).
- On the Diophantine equation $x^2 + 37^l = y^n$, **S. Asthana**, M. M. Singh, JP Journal of Algebra, Number Theory and Application, 44(1), 15- 20 (2019).
- On the Diophantine equation $3^x + 117^y = z^2$, **S. Asthana**, M. M. Singh, Ganita Journal, 70(2), 43-47 (2020).

List of papers under Communication:

- Paper entitled "On the Diophantine equation $x^2 + 2^a \cdot 59^b = y^n$ ".
- Paper entitled "On the Diophantine equation $x^2 + 2^a \cdot 3^b \cdot 19^c = y^n$ ".

Papers presented in Conferences/ Workshops and courses attended:

- **International Annual Conference on Women and Mathematics**, Department of Mathematics, Indian Institute of Sciences, Bangalore, July 13-15, 2017 (Poster Presentation).
- **National Seminar on Pure and Applied Mathematics**, St. Mary's College, Shillong, Meghalaya, September 19-20, 2018 (Oral Presentation).
- **UGC SAP Sponsored National Seminar on Algebra and Topology**, Department of Mathematics, NEHU, Shillong, March 13-14, 2019 (Oral Presentation).

- **2nd Annual Convention of North East Academy of Science and Technology & International Seminar on Recent Advances in Science and Technology (Virtual)**, Mizoram University, November, 16-18, 2020 (Paper Presentation).
- **Workshop on Software in Mathematics and Statistics (WSMS- 2021)**, Department of Mathematics, NIT Tiruchirappalli, 02 – 06 August, 2021.

References

1. Dr. Madan Mohan Singh

Professor

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2. Dr. A. M. Buhphang

Assistant Professor

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3. Dr. J. P. J. Kharbih

Assistant Professor

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