



Miranda House University of Delhi

Name: Dr. Sneha Mavi

Department: Mathematics

Current Designation: Assistant Professor

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Academic Qualifications

- 1. Ph.D. (Mathematics)** (2024), **Thesis Title:** On Key and Abstract Key Polynomials, Department of Mathematics, University of Delhi, Delhi.
- 2. M.Phil. (Mathematics)** (2020), **Thesis Title:** A study on distinguished pairs and saturated distinguished chains, Department of Mathematics, University of Delhi, Delhi.
- 3. M.Sc. (Mathematics)** (2016), I.P College for Women, University of Delhi, Delhi.
- 4. B.Sc. (Mathematics)** (2014), I.P College for Women, University of Delhi, Delhi.

Field of Specialization under the Subject/Discipline: Group Theory, Ring Theory, Field Theory, Irreducible Polynomials, Valuation Theory, Henselian Valued Fields, Newton Polygon over Valued Fields, Algebraic Number Theory and Commutative Algebra.

Awards

1. Awarded Net in 2017, Junior Research Fellowship in 2019 and Senior Research Fellowship in 2021.
2. Awarded Dr. Ram Kishore Memorial Scholarship for the most deserving student admitted for the year 2015-2016.

Total Teaching Experience

1. Worked as Guest Faculty for one Semester in Zakir Hussain College, University of Delhi, in 2019.
2. Conducted tutorial classes during the even semester of the academic sessions 2017-18, 2021-22.
Course Name: Module Theory.
3. Conducted tutorial classes of M.A./MSc, Ist Semester of the academic sessions 2018-19, 2021-22.
Course Name: Field Theory.
4. Conducted tutorial classes of M.A./MSc, IVth Semester of the academic sessions 2019-20, 2022-23.
Course Name: Algebraic Number Theory.

Teaching at Miranda House since: 05/09/2023



Miranda House University of Delhi

List of Publications

1. Sneha Mavi and Anuj Bishnoi, On Characterizations of Approximation Types using MacLane Vaqui'e chains, *Journal of Algebra and Its Applications*, (2023) doi.org/10.1142/S0219498825500082 (SCIE Publication).
2. Sneha Mavi and Anuj Bishnoi, Abstract key polynomials and distinguished pairs, *Journal of Algebra and Its Applications*, 22(9), 2350193 (2023). (SCIE Publication).
3. Sneha Mavi and Anuj Bishnoi, MacLane Vaqui'e chains and valuation transcendental extensions, *Journal of Commutative Algebra*, 15(2), 249–259 (2023) (SCIE Publication).
4. Sneha Mavi and Anuj Bishnoi, Abstract key polynomials and MacLane Vaqui'e chains, *International Journal of Algebra and Computation*, 33 (1), 15-30, (2023) (SCI Publication).
5. Sneha Mavi and Anuj Bishnoi, Valuation-transcendental extensions and pseudo-monotone sequences, *Communications in Algebra*, 50 (10), 4288- 4299, (2022) (SCIE Publication).

Paper Presented

1. Presented a paper in National Research Scholar's Seminar held on 28th Dec. 2018 in the Department of Mathematics, University of Delhi.
2. Participated and Presented a Paper on "Abstract key polynomials and distinguished pairs" in Three Days International (Online) Conference on "Recent Trends in Mathematics" (22nd December - 24th December 2021) organised by Department of Mathematics, Hansraj College in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi.
3. Participated and Presented a Paper on "Valuation-transcendental extensions and pseudo-monotone sequences" in Three Days International (Online) Conference on "Evaluation in Pure and Applied Mathematics" Akal University, Talwandi Sabo, Bathinda (November 16-18, 2022).

Seminars/Workshops/Conferences attended

1. Participated in the Second International Conference on Algebra and Discrete Mathematics- ICADM 2020 (Webinar), Department of Mathematics DDE- Madurai Kamraj University, Madurai-625 021 from 24-26 June, 2020-21.



Miranda House University of Delhi

2. Participated in the online workshop on Algebraic Number Theory organized by Department of Mathematics, Assam University, Silchar, From 31st August to 5th September, 2020, sponsored by University Grant Commission under SAP (DRS-II).
3. Attended the 33rd Annual Conference of the Ramanujan Mathematical Society. Worked as Volunteer in the International Conference on Topology and Geometry