

Faculty Profile



Mr. H. Prathab M.Sc.,M.Phil.,B.Ed.,(Ph.d.) SET.
Assistant Professor (SG)
Department of Mathematics.

HIGHLIGHTS:

- Number of Journal Publications: 08
- H-Index: 02
- Patents Granted: 01

PROFESSIONAL LINKS:

- Scopus ID: **58657491600**
- Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=58657491600>
- Google Scholar
ID: <https://scholar.google.com/citations?hl=en&user=yT41mQcAAAAJ>
- Orcid ID: **0000-0002-4573-0299**
- Anna University Faculty ID: **270389**
- AICTE Faculty ID: **1-1496135759**
- LinkedIn: <https://www.linkedin.com/in/prathab-h-05173487/>

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: **16 Years 01 Months**

AREA OF SPECIALIZATION:

- Graph Theory
- Fuzzy
- Mathematical Modeling
- Operational Research

PATENTS PUBLISHED/GRANTED:

- Math Teaching Device, Indian Design Patent, October 2024

COURSES CERTIFIED:

- NPTEL Online Certification Course “Graph Theory” 8- Weeks Course Completed.
- AICTE Approved Online Course “ UHV” 1- Week Course Completed.

JOURNAL PUBLICATIONS:

- **H. Prathab**, N. Ramalingam, E. Janaki, A. Bobin, V. Kamalakannan and M. Anandhkumar, “Interval Valued Secondary k-Range Symmetric Fuzzy Matrices with Generalized Inverses” IAENG International Journal of Computer Science, Volume 51, Issue 12, December 2024, Pages 2051-2066, Scopus Indexed, SNIP: 0.635, (Q3).
- M. Anandhkumar, **H. Prathab**, S. M. Chithra, A. S. Prakaash and A. Bobin,” Secondary K-Range Symmetric Neutrosophic Fuzzy Matrices” International Journal of Neutrosophic Science, Volume 23 , Issue 4, PP: 23-28 , 2024. ISSN: 2690-6805, Scopus Indexed, SNIP:1.312 (Q1).Doi : <https://doi.org/10.54216/IJNS.230402>.
- Bobin, A.,Thangaraja, P., **Prathab, H.**,Thayalan, S.” Decision Making Using Cubic Hypersoft Topsis Method” J. Appl. Math. & Informatics Vol. 41(2023), No. 5, pp. 973 – 988.<https://doi.org/10.14317/jami.2023.973>. Scopus Indexed, ISSN: 2234-8417.SNIP:0.44.
- Sathish.K, **Prathab.H** “On strong metric dimension of certain interconnection networks”AIP Conference Proceeding, 2023, 2852(1), 020009, Scopus Indexed, ISSN:0094-243X.SNIP: 0.247.<https://doi.org/10.1063/5.0164416>
- Sathish.Krishnan, **Prathab Harinathan** “Computing Topological Indices of Two-Dimensional Lattice of Cu – BHS Nanocrystal Structure” Materials International – Article Volume 5, Issue 3, 2023, 2. ISSN: 2668-5728.<https://doi.org/10.33263/Materials53.002>
- R.Gomathi, S.Madeswaram, C.Ramki, N. Vedichi, **H. Prathab** “Dielectric and Mechanical Studies of Cyclohexylammonium Hydrogen Maleate Hemihydrate Single Crystals” Journal of Physics: Conference Series 2801(2024)012020, <https://doi:10.1088/1742-6596/2801/1/012020>
- **Prathab H**, M.Gayathri Lakshmi, Bhaskaran.S “Modified Jarratt- type methods with optimal fourth order convergence” Solid State Technology, 2020,Volume 63 Issue: 5, Page No 1258-1262, Scopus Indexed, ISSN: 0038-111X. SNIP: 0.492.
- P.SivaKumar, N.Joshna, **H.Prathab**, M.Sathiragavan “ Sixteenth order iterative method for solving system of quadratic equations” Applied Science and Compute Mathematics, 1(1) (2020), 8-14, Further science.

CONFERENCES PRESENTED:

- “Modified Jarratt- type methods with optimal fourth order convergence” National Conference on Advances in Science, Humanities and Technology, Saveetha School of Engineering, 12/03/20 & 13/03/20.
- “On Strong Metric Dimension of Certain Interconnection Networks”, International Conference on Mathematical Techniques and Application(e- ICMTA-2022), SRM University, Kattankulathur, 23rd to 25th March 2022.

- “Fault- Tolerant Strong Metric Dimension of Rooted Product Graphs”, International Conference on Mathematical Modeling- ICM 2023, Bharathiar University, Coimbatore, 27th and 28th Jan 2023.
- “Higher Order Finite Difference Approximation for Computing Derivatives” International Conference of Mathematical Society – BHU-2023, Varanasi. 3 to 5th Feb 2023.
- “Resolvability and its variants in a chemical Graph” International Conference on Innovations in Science and Humanities(ICISH-2023), Saveetha Engineering College, Chennai at 19th & 20th April- 2023.
- “Metric Dimension in Wheel Graph” 2nd International Conference on Innovations in Science and Humanities (ICISH-2024), Saveetha Engineering College, Chennai at 18th & 19th July- 2024.
- “Assessing the Mental Balance of College Students Using Quadri-Partitioned Neutrosophic N-Soft Sets” 2nd International Conference on Innovations in Science and Humanities (ICISH-2024), Saveetha Engineering College, Chennai at 18th & 19th July- 2024.

FACULTY DEVELOPMENT PROGRAM (FDP) ATTENDED:

- Five Day International Virtual Faculty Development Program on “Mathematics and its Application” organized by Department of Mathematics(PG), PSGR Krishnammal College for Women, Coimbatore from 11.03.2024 to 15.03.2024.
- In “e^Λe” Enrich and Empower Math skills, a one week Faculty Development Program from 03.11.2023 to 09.11.2023, organized by the Department of Mathematics, M.O.P. Vaishnav College for Women (Autonomous), Chennai-600 034 .
- One Week International Faculty Development Programme on "Mathematics in Real, Applied and Computational Domains" organized by the Department of Mathematics, School of Science and Humanities, Sathyabama Institute of Science and Technology, Chennai, from 3 to 8 July, 2023.
- Five Day International Virtual Faculty Development Program on “Mathematics and its Application” organized by Department of Mathematics(PG), PSGR Krishnammal College for Women, Coimbatore from 11.03.2024 to 15.03.2024.
- A Seven Days Online FDP on Advanced LaTeX for Technical Writing organized by Department of Career Guidance, College of Science and Humanities, SRM, from 22-28 May-2023.
- Five-Day Online FDP on “Optimization Techniques using Mathematical Methods and Evolutionary Algorithms” organized by Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai from 13th - 17th February 2023.
- Nine Days FDP on “ Collaborative Research Practices in Modern Era” during 13th – 21st Feb 2023.
- Two Week Online International Faculty Development Programme on “ Current Trends in Applications of Mathematics” Organized by Department of Mathematics, School of Science and Humanities, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi. From 21.09.2022 to 04.10.2022.
- FDP Titled “Advance Latex” Conducted by Division of Mathematics, School of Advanced Science (SAS), during June 27-29, 2022 at VIT , Chennai.
- 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education(AICTE) from 26 July, 2021 to 30 July, 2021.

- Two Week Faculty Development Programme on “Research Advances in Mathematics and its Applications” organized by the Department of Mathematics, Sathyabama Institute of Science and Technology, Chennai, from August 2 to August 14, 2021.
- "One week International FDP on Applicable Mathematics and Programming in Science and Technology” conducted by Department of Mathematics from 7-6-2021 to 12-6-2021.
- One week Faculty Development Programme on “Software tools for Mathematical Education” organised by Department of Mathematics, Bannari Amman Institute of Technology, Sathyamangalam and Providence College for Women, Coonoor, Tamil Nadu, India from 30th August to 05 September 2021.
- One Week Virtual International Faculty Development Program on “Legal, Ethical and Social Issues of Digital Age: Stay Online Stay Safe” organized under the aegis of IQAC by Department of Commerce - UG from 1st September 2021 to 8th September 2021.
- One Week Online Faculty Development Programme on “ Recent Advancements and Emerging Technologies in Area of Education and Research Conducted by IIMT College of Management Greater Noida, U.P from 3rd to 9th Feb 2022.
- Five days online FDP on MATHEMATICAL DEVELOPMENTS IN CRYPTOGRAPHY AND DATA SCIENCE organized by the Department of Mathematics, Ramaiah Institute of Technology, Bangalore-54 held during August 9-13, 2021.
- Three days National level Virtual FDP on GRAPH THEORY held from 21.12.2021 to 23.12.2021 organized by Department of Mathematics(CA), Vellalar College for Women, Erode.
- “One Week International FDP on Research Excellence and Academic Development” organized by Department of Commerce with Professional Accounting from 01.09.2021 to 08.09.2021
- International FDP on Applicable Mathematics and Programming in Science and Technology Organized by Mohamed Sathak A J College of Engineering held on 7-06-21 to 12-06-21
- International FDP On Recent Advances in Mathematics & Statistics Organized by GITAM – Deemed University held on 3/8/20 to 8/8/20.
- Five Days FDP on Training in Python Programming, Organized by DRBCC Hindu College held on 10.06.20 to 15.06.20.
- Faculty Development Program on Linear Algebra and Research Indicators & Ethics in Research Organized by Loyola College held on 05/06/20 to 06/06/20.
- Faculty Development Program on ICOVID 20-Improving competency and Value towards intellectual development Organized by Saveetha Engineering College held on 06.04.2020 to 10.05.2020.
- Faculty Development Program on Advancement in science and Humanities hosted by Department of science and Humanities, Panimalar Institute of Technology on 25.05.2020 to 29.05.2020.
- Faculty Development Program on R Language Organized by Auxilium College, collaboration with IIT Bombay held on 13.05.2020 to 20.05.2020.
- National Faculty Development Program on Algebra and Number Theory Organized by Rajalakshmi Institute of Technology held on 12.06.2019.
- Faculty Development Program on Improving Competency and Values Towards y Intellectual Development Organized by Saveetha Engineering College held on 6.05.2020 to 10.05.2020.
- Faculty Development Program on Designing Research Project, Proposal Writing, Grants & Funding Agencies Organized by Saveetha Engineering College held on 26.04.2018 to 27.04.2018.

CONFERENCES/SEMINARS/WORKSHOPS/ATTENDED:

- “Recent Emerging Trends of Research in Mathematics” organized by the Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai-600127 on 27th to 31st March 2023.
- e-Short Term Training Programme on ALGEBRA AND ANALYSIS organised by Department of Mathematics, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India during December 13-18, 2021.
- Workshop on OPEN BOARD, SMART NOTEBOOK & MICROSOFT MATH Organized by DG VAISHNAV COLLEGE held on 14-06-21 to 16-06-21.
- Two Days Webinar on Differential Transforms and Series Solutions of Non-Darcy Momentum Equation Organized by KPR institute of Engineering & Technology held on 25/6/20 to 26/6/20. writing & reference Management using Mandalay Organized by Annamalai University on 22/6/20.
- National Level one Week Short Time Training Program on “MATLAB for All” Organized by Sir M Visvesvaraya Institute of Technology held on 04/06/20 to 08/06.20.
- Workshop on On New Extorial Function & its Application in Fractional Calculus Organized by Government Arts College For Women, 24/6/20.
- FIVE DAYS INTERNATIONAL SEMINAR ON RECENT RESEARCH IN MATHEMATICS Organized by GITAM – Deemed University held on 11/09/20 to 15/09/20.
- Workshop on “ Mathematical Modeling on Infectious Disease” Organized by Rajalakshmi Engineering College held on 06.07.20.
- Workshop on “ Mathematical Perspectives on Computational Science and Engineering Organized by “Ramaiah Institute of Technology on 6/7/20 to 10/7/20.
- National Workshop on Mathematical Analysis Organized by Loyola College held on 08/06/20 to 13/06/20.
- Workshop on Algebra and Number Theory Organized by Saveetha Engineering College held on 28.06.2019 to 29.06.2019.
- Workshop on Assessment Planning for Outcome Based Education Organized b IIT MADRAS on 21.02.2020.
- Two Days Online National Seminar on Recent Research Topics in Mathematics Organized by Auxilium college held on 28.05.2020 to 29.05.2020.
- One day Workshop on Assessment Planning for Outcome Based Education Organized by TLC, IIT Madras held on 21.02.2020.
- Workshop on Pedagogy for online and Blended Teaching- Learning Process Organized by IIT BX(ONLINE) held on 03.05.2018 to 18.06.2018.
- Workshop on Foundation Program in ICT for education Organized by IIT BX(ONLINE) held on 08.03.2018 to 12.03.2018.
- Workshop on One – Day hands on Training in LATEX Organized by Saveetha Engineering College held on 04.02.2017.
- Two Days International Conference on Contemporary Approaches in Mathematics and Emerging Trends Organized by Aarupadi Veedu Institute of Technology, Kancipuram, held on 04.05.2017 to 05.05.2017.

PROFESSIONAL MEMBERSHIPS:

- National Digital Library India.
- Institute of Mathematical Statistics.

OTHER DETAILS (If any):

- First Year Accreditation Criteria- 8 NBA (S&H) Coordinator.