



Dr. H.N. Shwetha M.Sc., Ph.D.

Principal

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PERSONAL PROFILE:

Name	: Dr. Shwetha H N
Date of Birth	: 19-04-1984
Sex	: Female
Nationality	: Indian
Religion	: Hindu (Vokkaliga)
Marital Status	: Married
Languages Known	: Kannada, English
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CURRICULUM VITAE

Educational Qualifications:

Degree	Year	University	Specialization
B.Sc.	2004	Bangalore University.	Govt. College, Tumkuru. (PMCs)
M.Sc.	2006	Bangalore University.	MES College, Bangalore Mathematics Graph Theory.
Ph.D.	2023	VTU, Belgaum	Graph Theory

Experience:

Total Teaching Experience; 15 years

1. Working as **Lecturer in Dept of Mathematics** GSSS College of Engineering, Bangalore from 2007 to April 2009.
2. Working as Assistant **Professor, Dept of Mathematics** in **BGS Institute of Technology**, Adichunchanagiri University, B G Nagar from Aug - 2009 **to** till July-2023, and promoted as Principal to ASNS, Adichunchanagiri University, B G Nagar

OTHER RESPONSIBILITIES;

1. Worked as College Admission and Promotion coordinator.

2. Working as Warden BGSIT Girls Hostel from 2011 to till date.

3. BOS Chair person in the Department of Mathematics at ASNS from 01-03-2024.

Member of the Society's;

1. Member of **“THE INDIAN MATHEMATICAL SOCIETY”** on 2017.
2. Member of **“THE INDIAN SCIENCE CONGRESS ASSOCIATION”** on 2019.
3. Member of **“THE INDIAN SOCIETY FOR TECHNICAL EDUCATION”** on 2020.

Online Exam;

1. NPTEL Online Examination cleared in 2022.
2. NPTEL Online Examination on **“Calculus Economics, Commerce and Management cleared”** in Jul-Sep-2025 (8 Weeks).

International / National Conference Attended:

1. International Conference on **“Advances in Mathematical Sciences and Applications”** on Dec-22, 23, 2014 at AIT Chikkamagaluru.
2. International Conference on **“Pure and Applied Mathematics”** Organized by the SCSVMV, Enathur, Kanchipuram, held during Dec-17, 18, 2018.
3. National Conference on **“Geometric Function Theory and its applications”** held on Jan 29,30,2018 at Yuvaraj's College, Mysore.
4. International Conference on **“Global advancement of Mathematics”** June 25,26,2019 at Acharya Institute of Graduate Studies, Bangalore.
5. Attended Engineering faculty Workshop conducted at BGSIT, BG- Nagar on Oct 16, 17,18,2013.
6. Attended one day Work Shop on **“Significance of Intellectual Property Rights and Innovations”** at BGSIT, BG-Nagar on Mar-10-2020.

7. Attended one day Work Shop on **“Mysteries of our Universe-A Scientific Inquiry”** at BGSIT, BG-Nagar on Oct-31-2014.
8. Attended One day Training on **“Management of Intellectual property”** at BGSIT, BG-Nagar on Jun-21-2019.
9. Attended one day orientation program on **“Draft National Education Policy- 2019”** held on sep-06-2019 at Adichunchanagiri University, BG-Nagar.
10. Attended **“International Conference on Mathematical Applications in Engineering, Management and Health Sciences”** held on 22-23 January-2023 at Adichunchanagiri University, BG-Nagar.
11. Attended International **“International Conference on Advancements in Humanities, Management, Science and Technology (ICAHMST)2024”** held on 24-25 July 2024.at Tamil Nadu, India.
12. Attended International Conference on **“Current trends in Drug Discovery Techniques and diagnostics: Chemical Biology Approaches”** from 02 and 03 August 2024, Organized by Adichunchanagiri University, BG-Nagar.
13. Organized **“Yusuf Hamied Chemistry Camps”** held at Adichunchanagiri University, BG-Nagar, for Govt. High school teachers from 4-6, December 2024.
14. Organized and attended five days faculty development program on **“Recent innovations in energy, Health and Environment”** held at Adichunchanagiri School of Natural Sciences, Adichunchanagiri University, BG-Nagara from 10-14 February 2025.
15. Organized one day international Conference on **“Science and Technology for a sustainable Tomorrow: Innovation and pioneering Breakthroughs.”** On 30-May-2025.
16. Attended Five Days Faculty Development Program on **“Bridging Academia and Society: FDP on Social Connect Responsibility”** Organized by the Department of Basic Science and Humanities, SJBIT Bangalore from 08th to 12th September 2025.
17. Attended Online International Workshop on the **“Transformative Role of Artificial Intelligence in Mathematics: Enhancing problem Solving Teaching and Research”** Organized by the Department of Mathematics under the aegis of Department of Basic Sciences, Cambridge Institute of

Technology, Bengaluru from 1st December to 5th December-2025.

Awards

1. Received Certificate of Appreciation from the Dept. of Basic Science and Engg. in Recognition of valuable Contribution in Academics and Co-curricular Activities of the institution for the year 2017-2018.
3. Received appreciation certificate from ARDORCOMM Digital Bharath Education Conclave 2025 in recognition of valuable and exemplary Contribution in the Education Sector on 19-Sep-2025 at the Lalit Ashoka Bengaluru.

Research Publications:

Total Publications:

1. **“On 1-edge Balance Index Set of $C_n \times P_4$ and Double squared Chain graph”** Published in **“Malaya Journal of Matematik”**, Vol. 9, No. 1, 204-207, 2021.
2. **“Bounds for α -Adjacency Energy of a Graph”** Published in IOP Conf. Series: **“Materials Science and Engineering”** 1070 (2021) 012019.
3. **“On the Energy of Graphs Associated with Vector spaces”**. Published in **“Chengdu University of Technology”** (Science and Technology Edition), Volume 26, Issue 08, August-2021.
4. **“Characterization of bounds for α -adjacency energy of a graph”** published in **“The Mathematics Student”** ISSN: 0025-5742 Vol. 92, Nos. 3-4, July-December (2023), 147–154.
5. **“3-Total edge product cordial labeling of double triangle rhombic Grid”**.
In Communication.
6. Patent Published Title **“Sematic Multilinear component analysis feature extraction based distributed denial-of-service (DDOS) attacks detection in software defined Networks”** On 29-03-2024, Application No:202441022602 A
7. **“Effect of Turmeric (Curcuma Longa) Proteins against Russel Viper Phospholipase A2”** Published in **“World Journal of Pharmaceutical Research”**, SJIF Impact factor 8.453, volume 13, Issue 24,1001-1008. ISSN 2277-7105.

8. **“A Facial synthesis of Zinc metavanadate nanocomposite for enhanced photocatalytic degradation and sensor applications”** published on 10 January 2025 in **“Research on chemical Intermediates”**, <https://doi.org/10.1007/s11164-024-05468-2>.
9. **“Sesamum indicum L.-assisted facile green synthesis of multifunctional ZnV₂O₆ NPs for photocatalysis and forensic applications”** Published in **Ionics** <https://doi.org/10.1007/s11581-025-06177-5> on 10 March-2025.
10. Published book chapter in **IGI Global Book Chapter (Chapter 12 -Advanced analysis and comparison of Graph Energies)**.
Book name: Innovations in Power Systems and Applications
Booklink: <https://www.igi-global.com/book/innovations-power-systems-applications/349227>, DOI: 10.4018/979-8-3693-7663-8.ch012 on April-2025.
11. **“Aloe Vera–Assisted Synthesis of Dy-Doped MgNb₂O₆ for Sustainable Sensing and Photocatalytic Applications”** published in **“Journal of Nano technology Volume 2025, Article ID 6674176”**,
16 <http://dx.doi.org/10.1155/jnt/6674176>
pages<https://doi.org/10.1155/jnt/6674176> Received 19 November 2024; Accepted Published on 5 April 2025.
12. **“A Supercritical Fluid Chromatographic Method for the Determination and Separation of Boronic Acids”** published in **“JOURNAL OF Separation SCIENCE”** on July 2025, <https://doi.org/10.1002/jssc.70210>.
13. **“Development of novel 3, 5-substituted-1,2,4-oxadiazole derivatives: a multidimensional approach with in vitro antibacterial, antioxidant, DFT insights, and molecular dynamics simulations”** published in **“Discover Chemistry”** on 29-July-2025, <https://doi.org/10.1007/s44371-025-00229-5>.

14. “Swift biosynthesis of NiFe₂O₄ nanoparticles from Guizotia abyssinica seeds for superior photocatalytic dye degradation” published in “Ionics” on 28-Aug-2025, <https://doi.org/10.1007/s11581-025-06632-3>.
15. Multi scale investigations of pq3-quinoxaline derivatives as selective COX-2 inhibitors: Synthesis, structural analysis, DFT, MD simulations and in silico/in vitro evaluation.

Paper Presentation:

- 1) Paper Presented “International Conference on Global advancement of Mathematics”. Title of the Paper “**Hamiltonian Laceability in some brick product Graphs**” on June 25,26,2019 at Acharya Institute of Graduate Studies, Bangalore.
- 2) Paper Presented “International Conference on Pure and Applied Mathematics”. Title of the Paper “**Laceability Properties in some brick product Graphs**” on June 25,26,2019 at Acharya Institute of Graduate Studies, Bangalore.
- 3) Paper Presented “International Conference on Mathematical Applications in Engineering, Management and Health Sciences”. Title of the Paper” **Distinct energies of Glucose**” held on 22-23 January-2023 at Adichunchanagiri University, BG-Nagar.
- 4) Paper Presented “International Conference on Advancements in Humanities, Management, Science and Technology (ICAHMST)2024” held on 24-25 July 2024.at Tamil Nadu, India

Date: 12-01-2024

(Dr. Shwetha H N)

Place: BG-Nagar.

