

MANJUNATH B. T.



ASSISTANT PROFESSOR - MATHEMATICS

CORE QUALIFICATION

- Excellent knowledge of Mathematics and applied Mathematics
- Proficiency in modern mathematical tools and software.
- Experience with interdisciplinary research collaborations.
- Innovation in teaching methodologies and curriculum design.
- Practical approach and knowledge of Mathematical methods and their usage.
- High level of critical analysis of any topic using Mathematical knowledge.
- High flow of speaking and writing English.
- Good command over Logical approach.
- Quick responding and computer savvy.

SKILL HIGHLIGHTS

- Cutting-edge Research
- Funding & Grant Acquisition
- Interdisciplinary Collaboration
- Learning strategies & Innovation
- Analytics & Student centered learning
- Mentorship & Curriculum development
- Academic committees
- Technology Integration & Instruction
- Thought Leadership
- Pedagogy & Supervision
- Advocacy & Dissemination
- Synergy
- Programming skills: C and C++
- FOSS Software: Scilab and Maxima

ABOUT ME

Dynamic Mathematics professional with demonstrated ability to integrate modern pedagogical approaches with traditional mathematical theory, creating a dynamic and inclusive learning environment. Experienced in developing rigorous curriculum, strong analytical skills and proven track record of engaging students through active learning strategies, and conducting innovative research that addresses real-world challenges. Passionate about making the world of mathematics accessible and relevant to all students and striving to make meaningful contributions to the advancement of mathematical theory and its practical applications while nurturing the academic and professional growth of students under my mentorship.

Dedicated assistant professor with a strong work ethic and leveraging expertise in graph theory to tackle complex problems at the forefront of mathematical research. Seeking to inspire curiosity, instill confidence, and cultivate a lifelong passion for mathematics among students while making significant contributions to the scholarly community through impactful research endeavours. Resourceful educator with adaptable and approachable style.

PERSONAL DETAILS

- Address: #35/27, Panchamukhi, ground floor, 5th cross, LIC colony,,3rd block Jayanagar east, Bangalore-560011
- Languages known: English, Kannada, Hindi & Telugu
- Father's name: Thippeswamy B
- Date of birth: 08/09/1993
- Nationality : Indian, Hindu, Veerashiva Lingayat - Kunchitiga.



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Jayanagar, Bangalore



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PROFESSIONAL SUMMARY

HIGHLIGHTS:

- *Presently Working as an Assistant Professor in department of mathematics, DAYANANDA SAGAR COLLEGE OF ENGINEERING from 2022 to till date.*
- *Worked as an Assistant Professor in department of mathematics, KNS INSTITUTE OF TECHNOLOGY from 2016 - 2020 (4 Years).*
- *Worked as a Subject matter expert in a Private firm - Simpli learn from 2020 - 2021 (1 Year).*

RESPONSIBILITIES:

- *Instructed undergraduate courses in graph theory, discrete mathematics, calculus, differential equations, and linear algebra.*
- *Developed, delivered courses in pure and applied mathematics and implemented effective instructional strategies to enhance student populations.*
- *Presented findings at academic conferences and published research articles in peer-reviewed journals.*
- *Collaborated with colleagues on interdisciplinary initiatives and contributed to departmental service activities.*
- *Utilised innovative teaching methods, such as flipped classroom and active learning, to enhance student engagement and comprehension.*
- *Participated in curriculum development and assessment activities to improve program effectiveness.*
- *Designed efficient lesson plan as per curriculum standards and reviewed students assignments and progress on regular basis.*

EDUCATIONAL QUALIFICATIONS

- *PhD in Mathematics (Pursuing), in Graph Theory, department of mathematics, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Bangalore.*
- *Master of Science in Mathematics with 8.2 GPA(A Grade) from Central College, Bangalore University , July 2016.*
- *Bachelor of Science in Maths , Physics and Chemistry with 73.43% from Vijaya college , Bangalore , May 2014.*
- *PUC in Maths , Physics , Chemistry and Biology with 73.16% from Vijaya PU College , March 2011.*
- *SSLC with 86.24% - Distinction , P.T.A School , Bangalore , March 2009.*

ACHIEVEMENTS AND AWARDS

- *Qualified in KARNATAKA STATE ELIGIBILITY TEST (KSET)*
- *Awarded with "YOUNG RESEARCHER AWARD 2022" by Institute of Scholar, connecting Scholars since 2014, registered under Govt. of India.*
- *Scored 100% score in the subject "LINEAR ALGEBRA" during second year Masters in Science - Mathematics.*
- *Recognised as Reviewer for the domain Graph theory by Institute of Scholar, recognised under Govt. Of India.*

AREAS OF INTEREST

- *Discrete Mathematics,*
- *Graph Theory,*
- *Graph Labeling,*
- *Linear Algebra,*
- *Differential Equations,*
- *Algebra,*
- *Fluid Mechanics,*
- *Cryptography and*
- *Data Security.*

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PUBLICATIONS

- *Manjunath B T and K.N. Meera. "An Application of Radio Geometric Mean Labeling in Encoding and Decoding". 4th PhD Colloquium on Ethically Driven Innovation and Technology for Society (PhD EDITS), IEEE, 2022.*
- *Manjunath B T and K.N. Meera. "Enhanced Algorithm Employing Radio Geometric Mean Labeling & Eccentricity for Encoding and Decoding". 5th PhD Colloquium on Ethically Driven Innovation and Technology for Society (PhD EDITS), IEEE, 2023.*
- *K. N. Meera and Manjunath B T. "Radio Geometric graceful graphs." , Materials Science and Engineering. Vol. 577. No. 1. IOP Publishing, 2019.*
- *Nehad Ali Shah, Manjunath B T, et all. "The analytical study of double diffusive convection in a rectangular enclosure bounded by porous lining with thermal radiation", Scientific Reports, 2024.*
- *Manjunath B T and K.N. Meera. "Dual level Enciphering and Deciphering Algorithm Employing Radio Geometric Mean Labeling". (Article in Preparation)*
- *Manjunath B T and K.N. Meera. "Novel Cryptographic Algorithm for Data Protection based on Radio Geometric Mean Labeling and Linear Algebra". (Article Finalised for communication)*

PATENTS

- *"ARTIFICIAL NEURAL NETWORKS FOR SOCIAL MEDIA FAKE ACCOUNT DETECTION", Manjunath B. T. and others, Published 01/11/2024.*

BOOK CHAPTERS

- *Manjunath B T and others, "CYBER SECURITY IN THE AGE OF ARTIFICIAL INTELLIGENCE: ADDRESSING EMERGING CHALLENGES AND IMPLEMENTING INNOVATIVE SOLUTIONS FOR ENHANCED PROTECTION", Global issues in Multidisciplinary Academic Research (GIMAR), Rubicon Publications , ISBN: 978-1-80433-924-4, Page. 141.*

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REFERENCES

- **Dr. Meera K. N.**

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- **Dr. Medha Itagi Huilgol**

*Professor in Department of Mathematics,
Bangalore City University, Bangalore.
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- **Dr. I. S. Shivakumar**

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- **Dr. P G Siddeshwar**

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Christ University, Bangalore.
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- **Dr. Prasanna Kumar D**

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