

# RENJINI S

## Assistant Professor of Mathematics

### ADMINISTRATIVE DISTINCTION

- Head of the Department, Department of Mathematics, TKMM College (2021-2024)
- Teacher-in-charge of B.Sc. Mathematics Batches
- Member, College Council (2021-2024)
- NAAC Criterion 5 Convenor (NAAC 3<sup>rd</sup> Cycle)
- Member, PTA Executive Committee (2023-2024)
- External Examiner, University of Kerala Practical Examinations
- Chairman, Valuation Board, University of Kerala

### SEMINARS/WORKSHOPE ORGANIZED

- International Webinar on 'Outcome- Based Education: How to Measure Learning Objectives' on February 15,2021.
- National Webinar on 'Importance of Data Analysis' on March 12,2021.

### PUBLICATIONS

1. **Ramanujan Sums in Biomedical Research: A Comprehensive Review**, *International Journal of All Research Education & Scientific Methods*, Vol. 11, Issue 5, 2023.
2. **Developments and Applications of Ramanujan Sums in Digital Signals and Image Compression: An Overview**, *International Journal for Multidisciplinary Research*, Vol. 4, Issue 5, 2022.



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### QUALIFICATION

B.Sc. Mathematics, University  
of Kerala, 2007 (First Class,  
99.4%)  
M.Sc. Mathematics,  
University of Kerala, 2009  
(First Class, 92.78%)  
M.Phil. Mathematics,  
University of Kerala, 2011  
(Grade-A)

### DATE OF JOINING

05 January 2011

### EXPERIENCE IN YEARS

14 years

### AREA OF RESEARCH

Number Theory  
Fractal Geometry

3. **Advancing Cancer Detection with Fuzzy Fractal Dimensions, *Journal of Emerging Technologies and Innovative Research*, Vol. 5, Issue 2, 2018.**
4. **Fairness and Paradoxes in Voting Systems: A Mathematical Exploration of Social Choice Mechanisms, *International Journal of Research and Analytical Reviews*, Vol. 4, Issue 2, 2017.**

#### **ACHIEVEMENTS/AWARDS**

- **Junior Research Fellowship (UGC-JRF)**

#### **ORIENTATION OR REFRESHER COURSES ATTENDED**

- **NEP2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Programme of UGC, Organised by UGC-MMTTC, University of Kerala, Thiruvananthapuram, 18-28 November 2024.**
- **Refresher Course on Education & Education Technology, UGC-HRDC, University of Hyderabad, 2023.**
- **One Day Orientation Programme on Valuation of Answer Scripts on 10-10-2022 at MSM College, Kayamkulam.**
- **Two Day Workshop on Syllabus Revision funded by University of Kerala, 11-12 August 2022 at University of Kerala**
- **Refresher Course on Mathematics & Statistics, UGC-HRDC, Punjabi University, 2020.**
- **Refresher Course on Women's Studies, UGC-HRDC, AMU, 2020.**
- **Refresher Course on Mathematics, UGC-HRDC, University of Kerala, 2014.**
- **Orientation Programme, UGC-HRDC, University of Kerala, 2012.**