

Curriculum Vitae

- ❖ **Name :** Dr. R. RAJKUMAR, M.Sc., Ph.D
- ❖ **Designation:** Assistant Professor
Department of Mathematics
Gandhigram Rural Institute- Deemed University
Gandhigram-624302
Tamilnadu , India.



- ❖ **Areas of Research:** Algebraic Coding Theory, Graph Theory and Networks.

- ❖ **E-mail:** rrajmaths@yahoo.co.in

- ❖ **Educational Qualifications:**

Degree	Subject/Specialization	University/Institute	Year of Passing	Percentage/Class/Grade
Ph.D (Mathematics)	Coding theory and Graph Theory	Indian Institute of Technology Madras, Chennai	February 2010	9.33/10
M.Sc	Mathematics	The American College, Madurai	April 2001	First class with Distinction
B.Sc	Mathematics	Devanga Arts College, Aruppukottai	April 1998	First class with distinction

- ❖ **Teaching & Research Experience:**

Institute	Designation	Period
Gandhigram Rural Institute (Deemed University) Gandhigram	Assistant Professor in Mathematics	12-07-2010 to till date
Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, Chennai	Assistant Professor in Mathematics	28-01-2010 to 30-06-2010
Indian Institute of Technology Madras, Chennai	Junior/ Senior Research Fellow	14-08-2004 to 30-12-2009
SAP College, Thiruvannamalai	Lecturer in Mathematics	16-08-2001 13-04-2002

❖ **Research Guidance:** Nil

❖ **Publications in refereed journals:**

- Some metrical problems on symmetric groups with Rosenbloom-Tsfasman metric, *International Journal of Ultra Sci. Phys. Sci.*, 291-294, 2010. (with W.B. Vasantha)
- Distance graphs on constant weight metric spaces with Rosenbloom-Tsfasman metric, *International Journal of Ultra Sci. Phys. Sci.*, 102-111, 2010. (with W. B. Vasantha)
- On the minimum distance of circulant RT distance codes, *International Journal of Ultra Sci. Phys. Sci.*, 725-730, 2009.
- Use of best biapproximation in bicoding theory, *Varahmihir J. Math. Sci.*, 509- 516, 2006. (with W.B. Vasantha)

❖ **Publications in conference proceedings:**

- On the distance graphs of metric spaces with Rosenbloom-Tsfasman metric, Poceeding of Advances in Mathematics: Scientific developments and Engineering applications , *Narosa Publishing House*, New Delhi, pp. 20-26, 2010. (with W. B. Vasantha)
- A class of Cayley graph interconnection networks based on Rosenbloom-Tsfasman metric, proceedings of the 2009 International Conference on Computers and Network Technology, *World Scientific Publishing*, pp. 66-72, 2009. (with W. B. Vasantha)
- Fuzzy codes with Rosenbloom-Tsfasman metric and its distance properties, proceedings of the International Conference on Mathematical Methods and Computation, *Allied Publishers* , pp. 21-26, 2009. (with W. B. Vasantha)
- Automorphism group of distance graphs of metric spaces with Rosenbloom-Tsfasman metric, proceedings of the International Conference on Mathematical Methods and Computation, *Allied Publishers*, Chennai, pp. 15-20, 2009 (with W. B. Vasantha)
- Circulant codes with RT metric, proceedings of the 2nd National Conference Mathematical Techniques: Emerging Paradigms for Electronics and IT Industries, New Delhi, India, pp. 63 – 66, 2008, (with W. B. Vasantha)

❖ **Papers presented in Seminars/Conferences:**

- 2009 International Conference on Computers and Network Technology, Chennai, India, July 24 - 26, 2009.
- International Conference on Mathematical Methods and Computation, Jamal Mohamed College, Trichy, July 24 - 25, 2009.

- 24 th Annual National Conference of the Mathematical Society, Banaras Hindu University Varanasi, India, December 30- 31, 2008.
- International Conference On Operations Research for a Growing Nation, Sri Venkateswara University, Tirupati, India, December 15 - 17, 2008.
- National seminar on Algebra, Analysis and Discrete mathematics, University of Kerala , Kerala, December 10-12 , 2008.
- 2nd National Conference Mathematical Techniques: Emerging Paradigms for Electronics and IT Industries, Deen Dayal Upathyaya College, New Delhi, September 26-28, 2006.
- 71 st Annual conference of the Indian Mathematical Society , I.I.T Roorkee during December 26 - 29, 2005.
- National Seminar on Recent Trends in Cryptography With Coding Theory, Union Christian College, Alwaye, Kerala, February 24 - 26 , 2005.

❖ **Workshops attended:**

- Workshop on Algebra and Coding Theory & Indian Institute of Science , Bangalore, India, December 2005

❖ **Countries visited:**

- Sri Lanka – For serving as a Resourse person for a 10-day inservice Teachers Training Programme held at Patana, Sri Lanka organised by Indian High Commission, Kandy, Sri Lanka during August 10-19, 2010.

❖ **Awards & Recognitions:**

- Received Fellowship (JRF/SRF) in IIT Madras during Aug. 2004 - July 2009.
- Qualified in GATE 2004 with 92.90 percentile.
- Qualified in CSIR-UGC NET in December 2007.

❖ **Membership in Professional Bodies:**

- Member of International Association of Computer Science and Information Technology (IACSIT), *Singapore*