



Dr RANGASWAMY

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PERSONAL PROFILE:

Date of Birth : 13/07/1970
Father's Name : Madaiah
Mother's Name : Lakshamma
Nationality : Indian

EDUCATION:

Ph.D (Number Theory)
Mysore University, Mysore,(2007).
M.Sc. (Mathematics)
Mysore University, Mysore (1996).
B.Sc. (Physics, Chemistry, Mathematics)
Mysore University, Mysore(1994).

PROFESSIONAL HISTORY:

Associate Professor and Head
Department of Mathematics
B. M. S. College of Engineering,
Bangalore-560 019.
Period: 2019 to Till date

Associate Professor
Department of Mathematics
B. M. S. College of Engineering,
Bangalore-560 019.
Period: - 2013 to 2019

Assistant Professor
Department of Mathematics
B. M. S. College of Engineering,
Bangalore-560 019.
Period: - 2009 to 2013

Senior Lecturer
Department of Mathematics
B. M. S. College of Engineering,
Bangalore-560 019.
Period : 2005 to 2009

Lecturer
Department of Mathematics
B. M. S. College of Engineering,
Bangalore-560 019.
Period : 1999 to 2005

TITLE OF Ph.D THESIS: “STUDIES ON BRAHMAGUPTA PLOYNOMIALS AND CONTINUED FRACTIONS WITH SOME INTERCONNECTIONS.”

COURSES HANDLED/LIST

1. Engineering Mathematics I
2. Engineering Mathematics II
3. Engineering Mathematics III
4. Engineering Mathematics IV
5. Graph Theory and Combinatorics
6. Discrete Mathematics Structures
7. Discrete Mathematics and Probability
8. Number Theory (Institutional Electives)
9. Graph Theory
10. Linear Algebra (Institutional Electives/CSE/ISE)
11. Linear Algebra (M.Tech classes)

PUBLICATIONS:

1. “A vedic Type Sutra for square root of N where N is a positive square free integers”, Applied Science Periodical, Vol. 4, No.3, pp.152-158, 2002.
2. “A continued fraction expansion of \sqrt{N} involving a positive rational solution of $x^2 - Ny^2 = -1$ ”, Proc. Nat.Conf. on Challenges of the 21st century in Mathematics and its allied topics, Univ. of Mysore, Ed. By B.S.Kiranagi, 224-231, 2001.
3. “Properties of Brahmagupta Polynomial with two parameters”, Proc. 3rd Annual Conf. Of the “Society for Special Functions and their applications”, pp 57-69, Varanasi, March 4-6, 2002.
4. “The Brahmagupta Polynomials Extended by Generalized Golden Ratio”, Journal of Applied Mathematical Analysis and Applications(July-Dec.)2005, Vol 1, No. 2, pp157-168.
5. “Orthogonal Polynomials of Continued Fractions and Brahmagupta Polynomials”, Applied Mathematical Analysis and Applications(July-Dec.)2005, Vol 1, No. 2, pp169-181.
6. “Melting effect on Non-linear convective flow over a vertical plate in a rotating system in a porous medium”, International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Vol. 3, Special Issue 3, pp. 954-960, ISSN:2347-307X(P), 2015.
7. “Convolution Identities Involving Fixed Power of Expanding Variable, Hybrid Fibonacci and Lucas Polynomials”, International Journal of Mathematical Sciences and Engineering Applications (IJMSEA) Vol.11, No.II, pp: 99-110., Aug. 2017.
8. “Effect of Higher Order Chemical Reaction on Double Diffusive Mixed Convective Flow Over a Rotating Vertical Cone in A Darcy Porous Medium”, International Journal of Research Journal of Science and Technology, Vol. 9, Issue: 03, pp:416-424, ISSN: 0975-4393 (P), 2349-2988 (O), Sep. 2017.

9. "Binomial Convolutions Identities of Hybrid Fibonacci and Lucas Polynomials", International J. of Math. Sci. & Engg. Appls. (IJMSEA), Vol. 11, No. III, Pp: 101-111, ISSN: 0973-9424, Dec. 2017.
10. "Preventive Maintenance and Root Cause Analysis of Sealed Quench Furnace in Axle Heat Treatment Line", International Research Journal of Engineering and Technology (IRJET), Vol.05, Issue: 08, e-ISSN: 2395-0056, p-ISSN: 2395-0072, Imp. Factor:7.211, Aug. 2018.
11. "Preventive Maintenance of Utility Equipments at MANMUL, Gejjalagere Mandya", International Research Journal of Engineering and Technology (IRJET), Vol.05, Issue: 08, e-ISSN: 2395-0056, p-ISSN: 2395-0072, Imp. Factor:7.211, Aug. 2018.
12. "TCAD Device Design and Analysis of 20nm DGTFET, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, Vol.7, Issue:12, ISSN: 2320-3765 (P), 2278-8875 (O), Dec. 2018.

CONFERENCE OR WORKSHOP ATTENDED:

1. "Mathematical Models for Multicriteria Decision Making in Engineering and Industry" held at BMSCE, July 3-17, 1999.
2. "Recent trends in Information technology", held at BMSCE & APSRCE, Bangalore, September 18 – October 2, 1999.
3. "Enterprise resource planning", held at BMSCE, April 30 – May 13, 2000.
4. National Conference on challenges of 21st century in Mathematics and its allied topics held on Feb 3 - 4, 2001 and presented a paper entitled "A continued Fraction Expansion if root N involving a positive rational solution of $x^2 - Ny^2 = -1$."
5. National Conference on Application Vedic Mathematics in Engineering and Technology on March 16 and 17, 2001 and presented a paper entitled "A Vedic type Sutra for N".
6. 3rd Annual Conference of the Society for Special function and their Applications and Symposium on Wavelets on March 4-7, 2002, BHU (UP) and presented the paper entitled "Properties of Brahmagupta polynomials with two parameters."
7. "Recent Advances in Computational Techniques" held at BMSCE, August 2-13, 2004.
8. Attended Feel Teacher Programme held at BMSCE, Sept 1-4, 2005.
9. Participated in the workshop on "Revision of syllabus for Engineering Mathematics-I/II" held at Reva Institute of Technology and Management, Bangalore on 9th September 2006.
10. The 19th International Conference of the Jangjeon Mathematical Society held in the Department of Mathematics, Bangalore University, Bangalore from 22-02-2007 to 24-02-2007 and presented a paper entitled "Orthogonal Polynomial of Continued Fractions and Brahmagupta Polynomials".
11. Computational Fluid Dynamics, held at BMSCE, January 9 – 23, 2008.
12. STTP on Project Management, held at BMSCE, Aug. 20-25, 2012.
13. Brain & Cognition: Neuroscience-Signal & Image Analysis", organized -ISTE Sponsored short term training program, held at BMSCE, Jan. 7-12, 2013.
14. TEQIP-II sponsored One Week Workshop on "Analog & Embedded Processing, held at BMSCE, July 01-06, 2013.
15. Workshop on "Japanese Management Techniques, held at BMSCE, Aug. 26-20, 2013.
16. Continuing Education Programme course on Computer Skills and Business System, held at Govt. Polytechnic for Women, Bengaluru, Feb. 15-26, 2016.
17. One week Workshop on Tools for Project Management and Evaluation, held at BMSCE, July 18-24, 2016.
18. Two week AICTE-ISTE Short Term Training Programme on "Advances in Finite Element Methods and applications, held at BMSCE, July 17-28, 2017.
19. MHRD Sponsored GAIN Course on "Pseudo-Spectral Methods and their Applications in Solving System of Differential Equations, held at BMSCE, Jan. 15-25, 2018.

CONDUCTION OF WORKSHOPS:

1. Convener for FDP on “Linear algebra and its applications” 16 -20th June 2014.
2. Co-ordinator for organizing FDP on “ Graph Theory – Algorithms and Applications” 26-12-2016 to 07-01-2017.

MEMBERSHIP & FELLOWSHIP OF PROFESSIONAL BODIES:

1. B O S Member
2. D A C Member
3. A A C Member
4. Squad member for CIE and SEE
5. Dept. Stock verification coordinator
6. NAAC Coordinator.
7. UTSAV Coordinator ,2014-16 and 2018
8. Library.
9. Member, Grievance Redressal Cell.
10. Graduation Day, Core Committee member, 2017-18.
11. Member to frame API format and to revise the performance appraisal report for CAS under management cadre,2018.
12. Member for finalization of provisional seniority list of non-teaching staff.2018.
13. MISTE life membership.

OTHER INFORMATION:

1. Coordinator for conducting autonomous examinations.
2. Coordinator for valuation center, VTU.