

BIO-DATA

Dr. Y. Rajashekhar Reddy

Associate Professor, Head & BOS in Mathematics

Department of Mathematics,

JNTUH University College Engineering, Science & Technology Hyderabad.

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Professional experience: 24 years UG level.

Research & Publications

- **Area of Research Interests:** B-Splines, Trend Analysis.
- **Publications:** 35 Research Papers

Academic & Administrative Experience

- Head, Department of Mathematics, JNTUH University College of Science, Engineering & Technology (from April 2025 to Till date)
- Chairman, Board of Studies (BOS), Mathematics (from April 2025 to Till date)
- Head Dept. Of Mathematics in JNTUH Jagtial(Dec 2016 to 2024 Nov 7)

Educational Qualifications

- Ph.D. (Mathematics), Osmania University, 2015
- M.Sc. (Mathematics), Osmania University, 2000
- B.Ed. (Mathematics), Osmania University, 1998
- B.Sc. (Mathematics, Statistics, Economics), Osmania University, 1997

National Level Qualifications

- CSIR–UGC NET (Mathematics), Qualified – 2001
- GATE (Mathematics), AIR 127 – 2001

Research Supervision

- Ph.D. Awarded: 01
- Ph.D. Scholars Pursuing: 06

Skills & Memberships

- MATLAB (Research & Numerical Computing)
- Quarterly Franklin Membership, London Journals Press (ID: ZI77597)

Declaration

I hereby declare that the above information is true to the best of my knowledge.

(Dr. Y. Rajashekhar Reddy)

List of Research publications

1. Reddy, Y. Rajashekhar "Numerical Solution to the One-Dimensional Heat Equation by using a Recursive Form of Cubic B-spline Collocation Method", International Journal of Advance Research, Ideas and Innovations in Technology, 8(3), 2022: 17-20.
2. Reddy, Y. Rajashekhar. "Numerical Solution to Poisson's Equation." Recent Advances in Mathematical Research and Computer Science Vol. 7 (2022): 118135.
3. Reddy, Y. Rajashekhar "Numerical Solution to Tenth Order Linear Differential Equation using Decic Degree B-Spline Collocation Method", , Indian Journal of Natural Sciences, 13(71), 2022: 39824- 39828.
4. Reddy, Y. Rajashekhar "Recursive form of B-spline Based Collocation Solution to Neumann's Boundary Value problems using MATLAB", Journal of Research in Applied Mathematics, Vol,8(3), 2022:pp: 18-24.
5. Reddy, Y. Rajashekhar, Ch Sridhar Reddy, and MV Ramana Murthy. "A Numerical technique-recursive form of bicubic B-spline collocation solution to Laplace's equation." Int. J. Compute. Appl. Math 11, no. 1 (2016): 71-87.
6. Reddy, Y. Rajashekhar. "Numerical Solution to Euler–Cauchy Equation with Neumann Boundary Conditions Using B-Spline Collocation Method." Annals of Pure and Applied Mathematics 11, no. 2 (2016): 1-6.
7. Reddy, Y. Rajashekhar, and Ch Sridhar Reddy. "Numerical Solution form of Bicubic B.", International Journal of Applied Science and Mathematics, vol.3(4), 2016: 144-152.
8. Y. Rajashekhar Reddy and P Gangothri "Trend Analysis by Using Simple Moving Average, International Journal of Latest Technology in Engineering Management & Applied Science 14(8), 2025:177-191.
9. Reddy, Y. Rajashekhar, Ch Sridhar Reddy, and MV Ramana Murthy. "Solutions to singular boundary–value problems using recursive form of quadratic B-spline collocation method." (2015).
10. Reddy, Y. Rajashekhar "A Numerical Method -High Accuracy Solution to Singular Differential Equations", Aryabhata Journal of Mathematics and Informatics, 9(1), 2017:284-293.