

**Dr. K. Sharath Babu**

M.Sc., Ph.D., LMISTE, LMAPSMS

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**PROFESSIONAL SUMMARY**

Experienced academician with 27+ years of teaching and research in Engineering Mathematics. Specialized in Numerical Analysis, Mathematical Modeling, and Operations Research, with strong contributions to interdisciplinary research including AI, Machine Learning, and Computational Methods. Proven record in Ph.D. supervision, publications, curriculum development, and academic leadership.

**AREAS OF EXPERTISE**

- Numerical Analysis & Differential Equations
- Mathematical Modeling
- Computational Methods
- Operations Research
- Data Science & Machine Learning Applications

**EDUCATION**

Ph.D. (Mathematics) – National Institute of Technology (NIT), Warangal, 2012

M.Sc. (Mathematics) – JNTU Hyderabad, 1999 (First Class with Distinction)

B.Sc. (MPC) – Osmania University Affiliated College, 1997

**PROFESSIONAL EXPERIENCE**

Professor of Mathematics – Aurora Deemed University, Hyderabad (2023–Present)

Associate Professor – Matrusri Engineering College, Hyderabad (2017–2023)

Professor & HoD – MLR Institute of Technology, Hyderabad (2016–2017)

Professor – Malla Reddy Engineering College (2014–2016)

Research Scholar & Teaching Assistant – NIT Warangal (2008–2011)

Professor & HoD – Swarna Bharathi Institute (2003–2014)

Assistant Professor – J.S.N. College (1999–2003)

#### **RESEARCH & PUBLICATIONS**

- 50+ Research Papers in reputed journals (Scopus & IEEE)
- 1 Patent Published (2026)
- Research in Numerical Methods, Boundary Value Problems, AI Applications

#### **RESEARCH GUIDANCE**

- Ph.D. Supervisor (2 awarded, others ongoing)
- Guided 100+ UG projects

#### **BOOKS PUBLISHED**

- Essential Engineering Mathematics (2021)
- Operations Research & its Applications (2023)
- Mathematics in Everyday Life (2024)

#### **ACADEMIC ACHIEVEMENTS**

- Best Research Paper Award (APSMS)
- Indo-Asian Best Teacher Award (2024)
- Editorial Board Member & Reviewer
- Invited Speaker and Conference Chair

## **CONFERENCES & FDPs**

Participated in 100+ FDPs, Workshops, and Conferences including IEEE and AICTE programs.

## **PROFESSIONAL MEMBERSHIPS**

- Life Member – ISTE
- Life Member – APTSMS

## **TECHNICAL SKILLS**

- MATLAB, Python, R
- Numerical Computing, LaTeX

## **ADDITIONAL ROLES**

- NSS Programme Officer
- R&D Coordinator
- NAAC/NBA Coordinator
- Student Mentor

## **DECLARATION**

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

Dr. K. Sharath Babu

Date: 25-04-2026