

Name: **Dr. M. Pavankumar Reddy**
Designation: Assistant Professor of Mathematics
Department: Humanities & Sciences
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Experience (in years): Teaching: 16Y 9M Research: 06Y Others(if any, specify):

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.Sc.	2003	Mathematics, Statistics, Computer Science
2	M.Sc.	2005	Mathematics & Scientific Computing
3	Ph.D.	2019	Fluid Dynamics

2. Teaching and Learning:

2.1. Teaching Interests:

- Differential Equations
- Complex Variables
- Numerical Analysis
- Linear Algebra and Calculus
- Probability and Statistics
- Operations Research

2.2. Novel Teaching & Learning Techniques adopted:

- WIT & WIL
- Student-Centred learning

2.3. Involvement in curriculum updating / Design: -

3. Co-curricular and Extra-Curricular Activities

3.1. Interests and Hobbies: Reading Books, Playing Cricket and Cooking

3.2. CCA/ECA Organized: Organized Intra College Cricket Tournament

3.3. CCA/ECA participated: Participated in Faculty Cricket Tournament 5 times
Participated in Scholar's Premier League, NIT Warangal 3 times
Participated in Campus Premier League, NIT Warangal.

3.4. Counseling and Mentoring Activity:

3.5. Committees involved in:

Department level: - QS Coordinator, H&S Department

Institute Level: -

4. Conference / Workshop / Seminar / Guest Lectures :

4.1 Conducted: -

4.2 Attended:

1. 2023 – Attended a 5–Day Online Faculty Development Programme on **Data Science and Chat GPT** during 15th – 19th May, Organized by KL Deemed to be University in Collaboration with ExcelR, Hyderabad, Telangana.

2. 2023 – Attended a 5–Day Workshop on **Statistical Analysis using Python** during 06th – 11th March, Organized by the Department of Humanities & Sciences, CSE (CYS, DS) and AI&DS, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, Telangana.
3. 2022–Attended One Week Workshop on **Hands-on-Training on Solving Differential Equations in Engineering Sciences** during 21st–25th June, Organized by the Department of Mathematics, National Institute of Technology, Uttarakhand.
4. 2020 – Attended One week Online Faculty Development Programme on **Mathematical and Statistical Modelling** during 26th – 30th May, Organized by the Department of Humanities and Basis Sciences, Godavari Institute of Engineering and Technology, Rajahmundry, Andhra Pradesh.
5. 2019–Attended STTP on **Numerical And Symbolic Computing (NSC)** during 27th–31st May, Organized by DEPARTMENT OF MATHEMATICS, NATIONAL INSTITUTE OF TECHNOLOGY, Warangal.
6. 2019–Attended One Week Workshop on **Teaching and Learning of Engineering Mathematics using Python through Hands-on Experience** during 05th–10th March, Organized by DEPARTMENT OF MATHEMATICS in association with TEACHING LEARNING CENTRE, NATIONAL INSTITUTE OF TECHNOLOGY, Warangal.
7. 2019- Attended a National Conference on Computational Methods for Fluid Dynamics Problems - 2019, organized by department of Mathematics, N.I.T. Warangal, India during 18th–20th, January.
8. 2018- Attended a National Conference on Mathematical Modeling in Science and Engineering - 2018, organized by department of Mathematics, N.I.T. Warangal, India during 27th–28th, March.
9. 2018- Attended an International Conference Numerical Heat Transfer and Fluid Flow - 2018, organized by department of Mathematics, N.I.T. Warangal, India during 19th–21st, January.
- 10.2018–Attended One Week Continuing Education Programme on **Matrix Computation and Numerical Techniques In Science and Engineering** (CEP–MC–NTSE), Sponsored by TEQIP–III NITW (29th October 02nd November, 2018), Organized by Department of Mathematics, NATIONAL INSTITUTE OF TECHNOLOGY, Warangal.
- 11.2018–Attended A Two Week GIAN Course on **Separation and Instabilities in High Speed Flows** during 06th–17th August, Conducted by Dept. of Mathematics, NIT Warangal.
- 12.2017–Attended 10 Days GIAN Course on **Computational Methods and Parallel Processing in Science and Technology** during 20th–30th December, Organized by Department of Mathematics, NATIONAL INSTITUTE OF TECHNOLOGY, Warangal.
- 13.2017–Attended A Five Day Faculty Development Workshop on **R-Programming Concepts and Applications for Teachers in Higher Education**, during 13th–17th September, Organized by Department of Civil Engineering, NIT Warangal in association with Teaching Learning Centre.

- 14.2015–Attended STTP on **Symbolic Computing and Numerical Programming Using Mathematica/Matlab**, during 10th–12th July, Organized by Department of Mathematics, NATIONAL INSTITUTE OF TECHNOLOGY, Warangal.
- 15.2013–Attended One Week Workshop on **Mathematical Modeling in Engineering (MME-2013)** during 02nd–06th December, Sponsored by TEQIP Phase–II, NITW, Organized by Department of Mathematics, NATIONAL INSTITUTE OF TECHNOLOGY, Warangal.
- 16.2012–Attended Two Day FDP on **Applications of Mathematics in Engineering Sciences** during 04th–05th September, Organized by Department of Mathematics, Vidya Jyothi Institute of Technology, Hyderabad.
- 17.2010–Attended One Day Seminar on **Challenges in Current Mathematics Research** on 22nd October, Conducted by Department of Mathematics, NATIONAL INSTITUTE OF TECHNOLOGY, Warangal.
- 18.2010–Attended Two Day Workshop on **Applications of Mathematics and Statistics for Engineering**, during 23rd–24th July, Organized by Department of Mathematics, JNTUH College of Engineering Hyderabad, Hyderabad.
- 19.2008–Attended Three Days Faculty Development Programme during 08th -10th August, Organized by Vaageswari College of Engineering in Association with Indian Society for Technical Education, New Delhi.

5. Academic Contribution and Research & Consultancy:

- 5.1. Invited Lectures: -
- 5.2. Articles/Chapters published in Books: -
- 5.3. Books published as single author or as editor: -
- 5.4. Projects Guided :
 - a) UG : -
 - b) PG : -
- 5.5. Research Interests : Fluid Dynamics, Hydrodynamic Stability
- 5.6. Ph.D students :
 - a) Enrolled : -
 - b) Submitted: -
 - c) Awarded: -

5.7. Papers published in reviewed journals :

S.No	Title of the Paper	Journal Name Vol. No. PP	ISBN/ISSN No.	Impact Factor/ Citation Index	National/ International
1	Heat Flow in a Rectangular Plate	<i>Lecture Notes in Mechanical Engineering (Springer) – NHTFF 2018</i>	978-981-13-1903-7		International
2	Entropy Analysis for Heat Transfer In a Rectangular Channel with Suction	<i>Heat Transfer – Asian Research, 2019, Vol 48, Issue 7</i>	2688-4542		International

3	Hall Effect on Steady MHD Flow and Heat Transfer of a Viscous Fluid in a Rectangular Channel with Suction and Injection	<i>E3S Web of Conferences, 128, 07008 (2019) ICCHMT, Rome, Italy</i>	2267-1242		International
4	Stokes flow and heat transfer past a circular cylinder in a square cavity with Suction /injection on opposite-side walls	<i>SN Applied Sciences, (2020, Vol 2, Issue 3</i>	2523-3971		International
5	Stokes Flow and Heat Transfer Past A Circular Cylinder In A Square Cavity With Suction/Injection On Side Walls	<i>Heat Transfer – Asian Research, (2020, Early View</i>	2688-4542		International
6	Effect of Magnetic Field on Couple Stress Fluid Flow in a Rectangular Channel	<i>AIP Conference Proceedings 2246, 020057 (2020) ICMSA 2019</i>	1551-7616		International
7	Internally heated convection in a porous medium saturated couple-stress fluid with the effect of throughflow and variable gravity	<i>NeuroQuantology October 2022, Volume 20, Issue 12, Page1581-1588</i>	1303-5150		International
8	Effect of magnetic field in a porous layer saturated Couple-Stress fluid with through flow and internal heat source	<i>Mathematics In Engineering, Science And Aerospace, Vol. 14, No. 1, pp. 197-204, Feb 2023</i>	2041-3165		International

5.8. Papers presented at National / International Journals :

S.No	Title of the Paper	Names of the Conference/ Seminars	National/ International	Period
1	Heat Flow in a Rectangular Plate	NHTFF - 2018	International	19 th –21 st , January, 2018
2	Flow of Couple Stress Fluid through a Rectangular Channel Under Transverse Magnetic Field	CMFDP - 2019	National	18 th –20 th , January, 2019

5.9. Sponsored research Projects:

S.No	Title	Agency	Period	Grant amount	Ongoing / Completed

5.10 Consultancy Projects:

S.No	Title	Agency	Period	Sanctioned Amount	Ongoing / Completed

6. Awards / Honors received:

7. Motto: Be the servant while leading. Be unselfish. Have infinite patience, and success is yours.