

Dr. P.V. Janadhana Reddy

Asst. Professor of Mathematics



Education Qualifications: Doctor of Philosophy (Mathematics)
Specialization: Applied Mathematics

ADDRESS:

D – Block -Room No: TPO Panel-5

JNTUH ID:

55150402-164729

EMAIL:

pvjreddy_maths@mgit.ac.in

DATE OF JOINING:

13-06-2006

EXPERIENCE - 15 Years

- Teaching - 15
- Research -9

SUMMARY:

- Publications - 14
- Conferences - 3
- Patents – 2
- Books/Chapters – 1

EVENTS:

- Organized - 2
- Attended - 12

LET'S MEET ON SOCIAL:

- <https://www.facebook.com/mgithyderabad>
- <https://www.instagram.com/mgithyderabad>
- <https://www.linkedin.com/company/mgithyderabad>
- <https://twitter.com/MGIThyderabad>

Membership of Professional Bodies:

1. SYSTEMS SOCIETY OF INDIA – 2015 - LM-33056.
2. IAENG- International Association Of Engineers - 2020 - LM- 256460
3. A.I.M.E.D(Association For Improvement of Maths Education) - 2020 -LM-604

Responsibilities Held at Institution Level:

1. Coordinator, Director of student Welfare (DSW) from 14-02-2019 to till date

Responsibilities Held at Department Level:

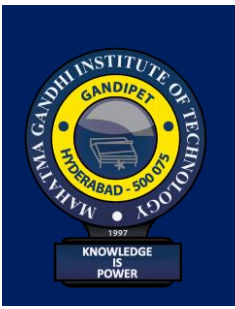
1. Member, NBA document preparation from the dept. of M&H, for department of MME

Courses Handled at Under Graduate /Post Graduate Level:

- UG: Mathematics-I, Mathematics-II, Probability and Statistics Mathematics-IV (Complex Analysis)
- PG: Computer Oriented Statistical Methods (CONM), Statistical Foundations for Artificial Intelligence (SFAI)

Publications:

1. Parametric Simulation of the Heat Transfer in Vertical Channel of Viscous Fluid Flow : A Case Study of FEM Simulation Page Number: 68-International Journal of Scientific Research in Science and Technology Volume 8, Issue 1 Jan 2021, doi : <https://doi.org/10.32628/IJSRST2181977>, Online ISSN: 2395-602X, UGC-CARE GROUP-I Journal number 64011Peer Reviewed
2. Numerical prediction of periodically convection in vertical channel mounted by heat generating blocks. IRJET, Volume: 08 Issue: 01 Jan 2021, ISSN: 2395-0056, Peer Reviewed, impact factor, 7.529 (SJIF)
3. On velocity distribution in convective fluid flow: A case study of finite element Approach PP 889-897, Alochana chakra Journal Volume IX, Issue XII, December/ 2020, ISSN NO:2231-3990, UGC-CARE GROUP-I Journal number 40772, impact factor 4.5
4. Numerical Study of the Heat Transfer Characteristics of Convection in Vertical Channel through FEM Simulation, International Journal of Scientific Research in Science and Technology, volume 7, Issue 5, Sept2020, doi : <https://doi.org/10.32628/IJSRST196211>, Online ISSN: 2395-602X, UGC-CARE GROUP-I Journal number 64011, Peer Reviewed, impact factor 7.214 (SJIF).
5. Finite difference analysis of MHD three-dimensional heat and mass transfer flow Through a porous medium, MukTShabd Journal, Volume IX, Issue VI, June/2020, <http://shabdbooks.com/gallery/809-June2020.pdf>, ISSN: 2347-3150, UGC-CARE GROUP-I Journal, impact factor 4.6.
6. FEM Simulations in convective viscous fluid flow through porous vertical



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channel, International Research Journal of Engineering and Technology, IRJET, Volume: 07 Issue: 06 | June 2020, e-ISSN: 2395-0056. Peer Reviewed impact factor 7.529 (SJIF).

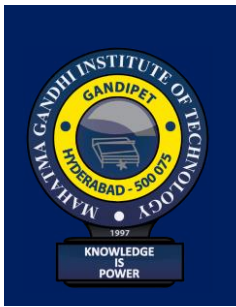
7. Finite Element Analysis of cason's oscillatory flowbetween two parallel platesJournal of Xidian University, vol.14,Issue-5, May-2020. ISSN: 1001-2400, Scopus 34022,UGC-CARE GROUP-I Journal withimpact factor 5.4.
8. Finite Element Method for Radiation Profile of HeatTransfer Flow in a Vertical Channel Mixed Convective Porous Medium, International Journal of RecentTechnology and Engineering (IJRTE),vol.8,Issue-5,Jan-2020. ISSN:2277-3878, Scopus & UGC-CARE GROUP-I Journal with impact factor 0.7.
9. Effect of Chemical Reaction and Radiation on MHD Flow along a moving Vertical Porous Plate with Heat Source and Suction, International Journal of Applied Engineering Research ISSN 0973-4562 Volume 14, Number 4 (2019) pp. 869-876, ISSN 0973-4562, Scopus & UGC Approved Journal - 2017 (Journal No. - 64529) impact factor 0.51
10. Numerical study on Natural convection with surface radiation from a planar heat generating element mounted freely in a vertical channel: An approach of FEM simulation PP 208-217, EDU WORLD,Volume IX Number:2,Jan 2018,(Special Issue), ISSN: 2319-7129,UGC Notification Number 62981,A Multidisciplinary International Peer Reviewed / Refereed Journal.
11. A paper titled "A computational study of FEM on convection MHD flow through a Porous Medium" was published in International Journal of Recent Trends in Engineering & Research (IJRTER) Volume 03, Issue 06; June – 2017, [ISSN: 2455-1457]
12. A paper titled "A FINITE ELEMENT ANALYSIS ON CONVECTIVE FLUID FLOW IN A VERTICAL CHANNEL THROUGH A POROUS MEDIUM" was published in Open Journal of Applied & Theoretical Mathematics (OJATM) ,Vol. 2, No. 4, December 2016, pp. 887~906, ISSN: 2455-7102.
13. Mixed convective heat transfer flow in a vertical channel through a porous medium with radiation,PP 810-818.International Journal of Scientific and Innovative Mathematical Research (IJSIMR) Volume 3, Special Issue 3, July 2015.ISSN 2347-307X (Print), COSMOS impact factor 3.597.
14. A paper titled "Finite element solution for velocity distribution and radiation pattern of viscous fluid through a horizontal porous channel." was published in the online "International Journal of Mathematical Research and Science (IJMRS) September- 2013 (Vol. 1, Issue 4) issue
- 15.

Conferences:

1. Numerical Simulations in Fluid dynamics through Finite Element Methods PP 4-13, First International Conference on Advances in Science Hub (ICASH 2020) 27 & 28 June 2020,e ISSN: 2582-4376

Patents:

1. Patent on "Helical Fluid Flow of a Comprehensive B-Oldroyd Unsteady State with Partial Derivative" was published on 01/10/2021along with Dr..K.L.Vasundhara,and Dr. SreeDivya ; No.202141041209 A



2. Patent on “Dynamic Fluid Flow Governing Equations in the Functionality Modelling of Binary Alloys” was published on 24/12/2021 along with Dr. Y.SunitaRani,,andDr.SyedSalahuddin, ; No.202141055879 A

No. of Books/Chapter Published with details:

1. Finite Element Study on Velocity Distribution and Radiation Pattern of Convective Fluid through a Horizontal Porous Channel PP 1-17, Emerging Advances in Mathematical and Physical Sciences” Walnut Publications,Bhubaneswar,India. ISSN:9789390261673.

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- <https://twitter.com/MGIThyderabad>

Events Organized:

FDPs/STTPs:

1. One-Week ISTE Faculty Development Programme on “Teaching, Learning and Research in Engineering & Technology”30 July to 3rd Aug2019.ISTE chapter MGIT and IIPC-MGIT, Funded by AICTE
2. One week FDP on “ Machine learning through Mathematical Modeling Supported with Python & R-Soft”, (02-07 July 2018), Dept. of Mathematics & Humanities, Mahatma Gandhi Institute of Technology in collaboration with E&ICT Academy, NIT Warangal.

Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:

1. One day online work shop on “Social Responsibility and Community Engagement” conducted by School of Management Studies, Mahatma Gandhi Institute of Technology, Hyderabad on 17-06-2020.

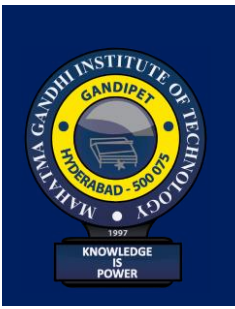
Events Attended:

FDPs/STTPs:

1. FDP on SCILAB-An open source substitute for MATLAB,JNTU, Sultanpur, andIIT Bombay, 25th to 30th May,2020
2. One Week Online FacultyDevelopment ProgrammeOn ”TAXONOMY OFSOFTWARESRELATED TOMATHEMATICALSCIENCES” 9th - 14thJune,2020.GokarajuRangarajuInstitute ofEngineering andTechnology(AUTONOMOUS)HYDERABAD,TELANGANA.
3. STTP on Development of Research Proposals and Funding Opportunities, 3rd June – 9th June, 2020,Tirumala Engineering College, A.P.
4. Two-DayFDP on Virtual trainingTeaching LearningCentre, Coimbatore Institute ofTechnology, 20& 21April,2020 (2 days).

Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:

1. Two-Day Workshop on “Online Tools & Software for Remote Teaching – Learning”24-25 April, 2020(2 days), UGC-HRD Centre, JNTUH.
2. Four days National webinar on “Fluid Mechanics and it’s Applications in Engineering science”Dept. of Mathematics, PES Institute of Technology and Management, Shivamogga, Karnataka., 27th to 29th June 2020 (4 days).
3. Participated in the Refresher Course - "Role of Communication Skills in Effective Teaching", sponsored by UGC, organized by UGC-ASC, JNTUH. Secured 'A' grade in the three week Refresher course during 17th May, 2013 to 6th June, 2013.



4. Participated in the 21st Orientation Course sponsored by UGC, organized by UGC-ASC, JNTUH. Secured 'A' grade in the four week orientation course during 20th June, 2011 to 16th July, 2011.
- 5.

Online Certifications: (COURSERA)

1. Learning How to Learn for Youth, Arizona State University, April, 2020 (3 weeks)
2. Positive Psychology, University of North Carolina, April-May, 2020,(6 weeks)
3. Introduction to Psychology, Yale University, April-May, 2020,(6 weeks)
4. Introduction to Calculus, University of Sydney, May-June, 2020 (5 weeks)

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