

Dr. C. Haritha

Assistant Professor of Mathematics



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

ADDRESS:

- E- Block -Room No 605A

JNTUH ID:

1315405-143330

EMAIL:

charitha_maths@mgit.ac.in

DATE OF JOINING:

07-01-2002

EXPERIENCE - 20 Years

- Teaching -20
- Research -6
- Industry -0
- Others -

SUMMARY:

- Publications - 11
- Conferences - 6

EVENTS:

- Organized -3
- Attended - 33

Membership of Professional Bodies:

1. Life Member of Indian Society for Technical Education. LM 35545
2. Life Member of APTSMS LM 281

Responsibilities Held at Department Level:

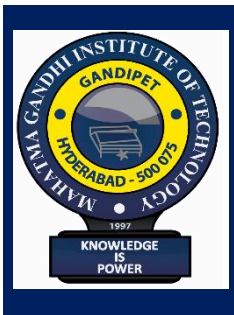
1. In-charge Timetables committee

Courses Handled at Under Graduate /Post Graduate Level:

- **UG:** Mathematics-I(M-I), Mathematics-II(M-II), Mathematics-III (M-III), Mathematics-IV(M-I(M-I)), Mathematical Methods(MM), Numerical Methods(NM), Probability and Statistics(P&S), Probability and Statistics & Complex Analysis(PS&CV), Computer Oriented Statistical methods(COSM), Laplace Transforms, Numerical Methods and Complex Variables(LTNMCV)

Publications:

1. G. Sudha, C.Haritha"Analysis Report On Microfluidic Viscometers For Biochemical Application" Turkish Journal of Computer and Mathematics Education Vol.11 No.03 (2020), 983- 987
2. C.HarithaS.Aruna "Analysis On Applications On Computational Fluid Dynamics" Turkish Journal of Computer and Mathematics Education Vol.11 No.02 (2020), 798- 802
3. S.Aruna,G.Sudha, C.Haritha"Analysis of Euler Coordinated Fluid Dynamics Lectures in Elementary" Alochana Chakra Journal Volume IX(VI)Pg.No 9552 to 955
4. Sudha, G., Haritha, C."Analytical review on fluid mechanics with magneto hydrodynamic effects" (2020) Journal of Critical Reviews, 7 (16), pp. 8-12.
5. Balla, C.S., Haritha, C., Naikoti, K., Rashad, A.M."Bioconvection in nanofluid-saturated porous square cavity containing oxytactic microorganisms" (2019) International Journal of Numerical Methods for Heat and Fluid Flow, 29 (4), pp. 1448-1465.
6. Chandra Shekar, B., Haritha, C., Kishan, N."Magnetohydrodynamic convection in a porous square cavity filled by a nanofluid with viscous dissipation effects" (2019) Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 233 (3), pp. 474-488.
7. Balla, C.S., Haritha, C., Kishan, N., Rashad, A.M."Magnetohydrodynamicnanofluid flow and heat transfer in a porous



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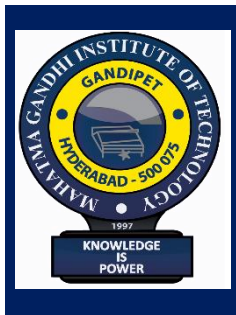
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cavity containing heated surface” (2019) Journal of Nanofluids, 8 (3), pp. 577-588.

8. Haritha, C., Shekar, B.C., Kishan, N.”MHD natural convection heat transfer in a porous square cavity filled by nanofluids with viscous dissipation” (2018) Journal of Nanofluids, 7 (5), pp. 928-938.
9. Shekar, B.C., Haritha, C., Kishan, N.”Magnetohydrodynamic double-diffusive convection in fluid saturated inclined porous cavity with thermal radiation and chemical reaction” (2018) Journal of Chemical Technology and Metallurgy, 53 (3), pp. 518-536.
10. Sekhar, B.C., Kishan, N., Haritha, C.”Convection in nanofluid-filled porous cavity with heat absorption/generation and radiation” (2017) Journal of Thermophysics and Heat Transfer, 31 (3), pp. 549-562.
11. D. LathaMadhuri, Haritha, C. and Kishan, N “Finite Difference Analysis on an unsteady mixed convection flow past a semi-infinite vertical permeable moving plate with Heat and Mass Transfer with Radiation and Viscous dissipation” Advances in Applied Science Research Volume 3(4)Pg.No 22666 to 2278

Conferences:

1. Natural Convection Heat Transfer in a Porous Square Cavity in presence of nanofluids/ International Conference on Computational Fluid flow and Heat Transfer (CFFHT-2018)/ Dept of Mathematics, OU March 28-29/ International.
2. Simultaneous Effects of thermal Radiation and hall current on MHD free convective casson fluid flow past a stretching sheet in presence of Heat and Mass transfer/International Conference on Recent Advances in physical sciences and Future Challenges (CONIAPSXX)/Faculty of Science,OU July 14-16 2017/ International.
3. Soret and Dufour effects on an Unsteady MHD Free Convection Flow Past a Vertical Porous Plate In The Presence Of Suction or Injection/ International Conference on Computational Methods in Engineering and Sciences(CMES-2009) CBIT/ CBIT,8-10 January/ International
4. Applications of Second-Order Differential Equations to the vibration of springs and electric circuits/ National Conference on Revelance of English, Mathematics & Management Science to Technical Courses(REMMT-2014/ISTE Chapter MGIT 3-4 April 2014/National
5. Importance of fourier transforms in engineering/National Conference on Revelance of English, Mathematics & Management Science to Technical Courses(REMMT-2014/ISTE Chapter MGIT 3-4 April 2014/National
6. Soret and Dufour effects on an unsteady MHD mixed convection boundary layer flow past a semi-infinite vertical permeable moving plate with radiation and viscous dissipation/ XXII Congress and National Conference on Recent trends in Applications of Mathematics/ Anurag Group of Institutions 13-15 december 2013/National



Events Organized:

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

1. Co-Convener for One Week Online International Faculty Development Programme on “**The Role Of Linear Algebra in Machine Learning, Artificial Intelligence & Data Science**”, organized by the Departments of Mathematics and Humanities, Computer Science Engineering and Information Technology, Mahatma Gandhi Institute of Technology, Hyderabad held from 29th November, 2021 to 3rd December 2021.
2. Co-Convener for Two-Day Online International Webinar on “**Empowering Women A Paradigm Shift in NEP 2020**” during 08&09 Jan 2021, MGIT
3. Co-Convener for Two Day Online FDP on “**Applications of Mathematics in Engineering**”, 3rd and 4th July 2020, Department of Mathematics & Humanities, Mahatma Gandhi Institute of Technology (MGIT), Hyd.

Events Attended

FDPs/STTPs:

1. Two Week Faculty Development Programme “**Research Advances in Mathematics and its Applications**”, 2 to 14 August, 2021, Department of Mathematics, Sathyabama Institute of Science and Technology, Chennai.
2. One Week Faculty Development Programme “Recent Trends in Applications of Mathematics (RTAM)”, 12th - 17th July 2021, Department of Freshman Engineering, Chadalawada Ramanamma Engineering College (Autonomous), Tirupati.
3. 9-Day National Level Online Faculty Development Program “**Foregrounding the Spectrum of Character Building in Modern Human Life**”, 25 June - 03 July, 2021, Department of Humanities & Sciences, Balaji Institute Of Technology & Science
4. One Week Faculty Development Programme “**Relevance of Mathematics to Core Engineering Sciences**”, 12 to 16 October 2020, Mahatma Gandhi Institute of Technology, Hyderabad .
5. One Week Faculty Development Programme “**Applied Numerical methods**”, 28-Sep-20 to 3-Oct-2020 Department of Mathematics & Statistics, University College for Women, Koti, Hyderabad
6. One Week AICTE Training And Learning (ATAL) Academy **Online FDP "Emotional Intelligence"** 21 to 25 September 2020, St. Martin's Engineering College.
7. One Week AICTE Training And Learning (ATAL) Academy **Online FDP "ROAD - Response Effectiveness, Organising Self, Attitudinal Shift, Decision Making"**, 7 to 11 September 2020, University College of Engineering, Osmania University.
8. Attended AICTE five-day FDP on “**Universal Human Values in Education**” organized by AICTE from 24 to 28 August 2020.
9. One Week Online International Faculty Development Programme “**Role of Applied Sciences in Industry & Engineering “ (IFDPRASIE-2020)**”, 2nd to 6th August 2020, Department of Mathematics, University College of Engineering, Osmania University, Hyderabad, in association with APTSMS.

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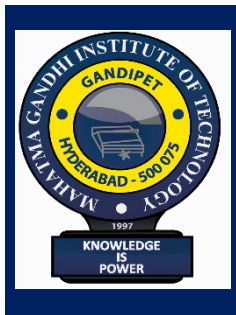
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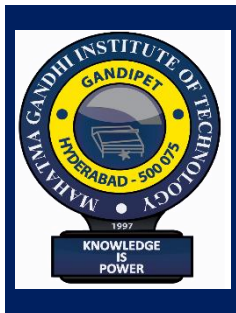
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10. One Week Online Faculty Development Program “**Orienting Applications & Conceptualized Aspects of Sciences & Humanities**”, 21 to 25 July, 2020. Dept. of Humanities & Sciences, Balaji Institute of Technology & Science
11. One Week National Level Online Faculty Development Program “**Essential Mathematics for Machine Learning**”, 27 to 31, July 2020, Department of Humanities and Sciences, VNR Vignana Jyothi Institute of Engineering & Technology, Bachupally,
12. One Week International Online Faculty Development Program “**Applications of Mathematics in Science and Engineering**”, 7th to 11th July, 2020, Department of Basic Science (Mathematics), Vishnu Institute of Technology, Bhimavaram
13. One Week Faculty Development Program “**Role of Machine Learning & Data Sciences in AI**” 28th June to 2nd July 2020, Department of CSE and M&H, MGIT, HYD
14. One Week Faculty Development Program “Multidisciplinary Approach towards Emerging trends in Science & Humanities [MASH 2020]”, 1st to 5th June 2020, Ramachandra College of Engineering
15. One Week Online Faculty Development Program “**TAXONOMY OF SOFTWARES RELATED TO MATHEMATICAL SCIENCES**”, 9th to 14th June 2020, Gokaraju Rangaraju Institute of Engineering and Technology.
16. One week national level FDP on “**Machine Learning through Mathematical Modeling Supported with Python R-Soft**” organized by Department of M & H, MGIT in collaboration with Electronics & ICT ACADEMY NIT Warangal during 2-7 July 2018
17. Two-Day workshop on “**Adoption of Technology in Teaching and Learning**” organized by Department of IT, MGIT during 5-6 July 2017.
18. A UGC sponsored short term course on “**e-Learning and ICT for Teaching and Learning**” at JNTUH, Hyderabad from 06-03-2017 to 11-03-2017.
19. One-Week FDP on “**Intellectual Property Rights**” organized jointly by Department of Bio-Technology, Mechanical Engineering and School of Management Studies, CBIT during 19-24 December 2016.
20. One-week FDP on “**Mathematical Modeling and Simulation Techniques**” organized by Department of Mathematics and Humanities, CBIT, Hyderabad from 5th May to 10th May 2014.
21. Two-week FDP in “**Entrepreneurship**” organized by Entrepreneurship Development Cell (funded by AICTE), MGIT from 22nd April to 4th May 2013.
22. One week in house training program on “Effective Teaching Methodology” from 24 to 29 November, 2002, CBIT

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

1. Two-Day workshop on “**Adoption of Technology in Teaching and Learning**” organized by Department of IT, MGIT during 5-6 July 2017.
2. Two-day work shop “**Socio-effectiveness of women- WOW FACTOR**”



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organized by Ashna Women-Welfare Cell , MGIT during 8th and 10th March 2014.

3. One-day work shop on “**EXPLORING INTERNET**” organized by MGIT on 18th Feb 2014.
4. One-day workshop on “**Mathematical Modeling and its applications for Engineers and Scientists**” organized by JNTUH on 30th August 2013.
5. Two day National Workshop on “Application of Mathematics in Various Branches of Engineering and Bio-Sciences” organized by Department of M&H, CBIT, Hyderabad on 13th&14th August 2013.
6. **Refresher Course** / Osmania University / 3 Weeks
7. July to 25 July 2012 / ASC, UGC
8. Two-day national level workshop on “**Women in Science and Technology – Societal Impact**” organized by Women’s cell of CBIT and supported by IEEE, ISTE, IIPC TEQIP at CBIT during 8th& 9th March 2013.
9. One day orientation Program on revised B.Tech 1st year Mathematics syllabus, 19 september 2009, Dept. of Mathematics, College of Engineering – Hyderabad, JNTUH .
10. **Orientation Course** / University of Hyderabad /4 Weeks, Jan 21 to Feb 18 2008/ ASC,UGC
11. Workshop on “**Effective communication**” at MGIT from 20 to 30 June 2005.
12. In house training program on “**Personality development & Effective**
13. **Teaching methodology**” at CBIT from 8-11-04 to 16-11-04.

Online Certifications:

1. Matrix analysis with applications, 26 Aug 2019 to 18 Oct 2019 8 Weeks
2. Mathematical Methods and its Applications, 27 Jan 2020 to 17 Apr 2020 12 Weeks
3. Vector Calculus for Engineers, 4 Weeks, Coursera
4. Introduction to Ordinary Differential Equations , 4 Weeks, Course