

Dr. G. Sudha

Assistant Professor

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



ADDRESS:

- E – Block -Room No 605

JNTUH ID:

26150402-143748

EMAIL:

gsudha_maths@mgit.ac.in

DATE OF JOINING:

02-09-2002

EXPERIENCE - 19 Years 7 Months

- Teaching - 19
- Research - 6

SUMMARY:

- Publications - 8
- Conferences - 8

EVENTS:

Attended - 32

Membership of Professional Bodies:

1. Life Member of Indian Society for Technical Education (ISTE) LM 35546 .
2. Life Member of APTSMS LM 282.

Responsibilities Held at Department Level:

1. Coordinator – IQAC Cell at department level for NAAC .

Honors/Awards Received:

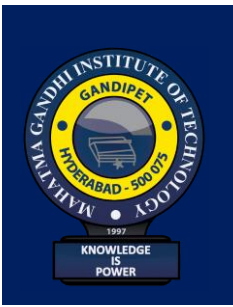
1. I was awarded a merit certificate graded Elite + Gold having a consolidated score of 93%. I was declared a topper (top 1% of merit candidates).

Courses Handled at Under Graduate /Post Graduate Level:

1. **UG:** Mathematics-I, Mathematics-II, Mathematics-III, Mathematics-IV, Mathematical Methods, Numerical Methods, Probability and Statistics, Probability and Statistics & Complex Analysis, Computer Oriented Statistical methods, Laplace Transforms, Numerical Methods and Complex Variables and Mathematical Statistical Foundations.

Publications:

1. G. Sudha, C. Haritha “Analysis Report On Microfluidic Viscometers For Biochemical Application” in the Turkish Journal of Computer and Mathematics Education, Volume 11 No. 03 (2020), 983 -987.
2. G. Shantha G. Sudha “Analysis On Determination Of Leakage Flow And Separation Force Of Gas Turbine Engine” in the Turkish Journal of Computer and Mathematics Education, Volume 11 No. 03 (2020), 1041-1046.
3. C. Haritha & G. Sudha “Analysis of Bidispersed Fluid for its Potential Application” in the Mukt Shabd Journal, Volume IX, Issue VI, June 2020, pp 5402 – 5407, ISSN No. 2347 – 3150.

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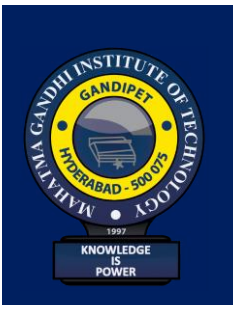
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Attended - 32

4. G. Sudha & C. Haritha “Analytical Review on Fluid Mechanics with Magneto Hydrodynamic Effects” in the Journal of Critical Reviews, volume 7, Issue 16, 2020, pp 8-12, ISSN : 2394 – 5125.
5. S. Aruna, G. Sudha & C. Haritha “Analysis of Euler Coordinated Fluid Dynamics Lectures in Elementary” in the Alochana Chakra journal, Volume IX, Issue VI, June 2020 9552 – 9957, ISSN No. : 2231 – 3990.
6. G. Sudha “Thermal radiation effect on oscillating plate temperature flow of micropolar viscous dissipative fluid past a vertical porous plate in the presence of Couple stresses” in the International Journal of Mathematical Archive (IJMA), Vol. 6, Issue. 6, 2015, pp. 52-62, ISSN: 2229-5046.
7. G. Sudha “Converging Shock waves in Stellar Atmosphere under the action of Monochromatic Radiation” in the International Journal of Computational and Applied Mathematics (IJCAM) volume8, No.2 (2013), pp. 173-185.
8. G. Sudha “Phase-Plane Analysis Application to Guderley’s Problem” in the Journal of Emerging Trends in Engineering and Applied Sciences (JETEAS) – 4(3): 406-411, 2013.

Conferences:

1. Presented a paper titled “Effect of viscous dissipation and chemical reaction on unsteady MHD heat and mass transfer radiating micropolar fluid flow in a rotating frame of reference” at the 20th International Conference organized by University College of Science, Osmania University, Hyderabad during July 14-16, 2017.
2. Presented a paper titled “Influence of Thermal radiation on unsteady MHD free convection flow micropolar fluid past a vertical moving plate embedded in a porous medium” at the 7th International Conference on “Recent Engineering & Technology” organized by Matrusri Engineering College, Hyderabad on 7th April 2017.
3. Presented a paper titled “Finite difference solutions of MHD free convection flow past an accelerating vertical plate embedded in a porous medium under the effects of Hall Current, Heat and Mass Transfer” at the National Conference organized by, Department of Mathematics, Osmania University, Hyderabad during July 30-31, 2017.
4. Presented a paper titled “Transient mixed convection flow of a polar fluid past a vertical porous plate” at the National Conference organized by Department of Mathematics, OU during 30-31, May 2016.
5. Presented a paper titled “Converging Spherical and Cylindrical Shocks with Zero Temperature Gradient” at the National Conference organized by the Department of M&S, RBVRR Women’s College, Hyderabad, during 13th & 14th June 2014.
6. Presented a paper titled “Laplace Transforms And Its Applications In The Field Of Engineering And Science ” at the National Conference organized by the Department of M&H, MGIT, Hyderabad, during 3rd & 4th April 2014.
7. Presented a paper titled “Self Similar Solution to Converging Shock Wave in Non-Ideal Medium” at XXII Congress of APSMS and the National Conference organized by the Department of M&H, Anurag Group of Institutions, Hyderabad, during 13th -15th December 2013.



8. Presented a paper titled “Similarity Solution to non-ideal Compressible Flow Problem” at the National Conference organized by the Department of Mathematics, Vasavi College of Engineering, Hyderabad, during 6th - 7th September 2013.

Attended FDPs/STTPs:

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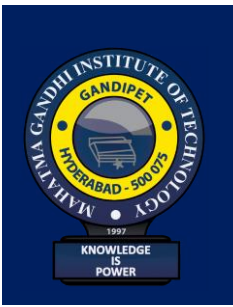
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1. Attended UGC sponsored workshop on " National Institutional Ranking Framework (NIRF)" organized by JNTUH, Hyderabad on 06-02-2021.
2. Attended one week FDP on “Applications of Mathematics and Statistics in Engineering “organized by Mallareddy Engineering College, Secunderabad, from 23 to 27 Nov, 2020.
3. Attended one week FDP on "Relevance of Mathematics to core Engineering Sciences" organized by Department of M&H, MGIT Hyderabad from 12 to 16 October 2020.
4. Attended one week FDP on "Online Based Education and Accreditation " organized by ISTE Telangana Section in association with JNTUH college of Engineering Jagityal, MGIT Hyderabad from 5 to 9 October 2020.
5. Attended ATAL sponsored one week FDP on "ROAD - Response Effectiveness, Organizing Self Attitudinal Shift Decision Making" organized by University college of Engineering, Osmania University from 7 to 11 Sep 2020.
6. Attended AICTE five-day FDP on “Universal Human Values in Ed" organized by AICTE from 24 to 28 August 2020.
7. Attended one – week FDP on “ Machine Learning & Data Sciences in AI” organized by Department of CSE and M&H, MGIT from 28th June to 02nd July 2020.
8. Attended one – week FDP on “Improving Teaching Learning Experience using Best Practices” organized by Dwarkadas J. Sanghvi College of Engineering, Mumbai from 15th June to 19th June 2020.
9. Attended one – week FDP on “Taxonomy of softwares related to Mathematical sciences” organized by Department of H & S, Gokaraju Rangaraju Institute of Engineering and Technology from 9th to 14th June 2020.
10. Attended one – week FDP on “Skill Development for Effective Research and Teaching - Learning Process, organized by Department of ECE, Anil Neerukonda Institute of Technology and Sciences from 8th to 12th June 2020.
11. Attended one – week FDP on “ Multidisciplinary Approach towards Emerging trends in Science & Humanities [MASH 2020]” organized by Ramachandra College of Engineering from 1st to 5th June 2020.
12. Attended one – week FDP on “LaTeX & Technical Report Writing” organized by Department of Mathematics, Kakatiya University in association with Spoken Tutorial, IITB from 25 to 30 May , 2020.
13. Attended One week national level FDP on “ Machine Learning through Mathematical Modeling Supported with Python R-Soft” organized by

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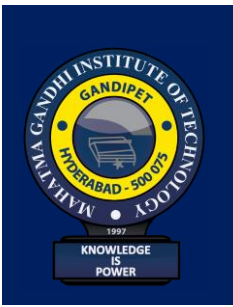
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Department of M & H , MGIT in collaboration with Electronics & ICT ACADEMY NIT Warangal during 2-7 July 2018

14. Attended a Two-Day workshop on “Adoption of Technology in Teaching in Teaching and Learning” organized by Department of IT, MGIT during 5-6 July 2017.
15. Attended 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.
16. Attended a 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.
17. Attended a 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.
18. Participated in a Two-week FDP in “Entrepreneurship” organized by Entrepreneurship Development Cell (funded by AICTE), MGIT from 22nd April to 4th May 2013.
19. Participated in a 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.

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

1. Attended a two-day work shop “Socio-effectiveness of women- WOW FACTOR” organized by Ashna Women-Welfare Cell , MGIT during 8th and 10th March 2014.
2. Attended a one-day work shop on “EXPLORING INTERNET” organized by MGIT on 18th Feb 2014.
3. Attended a one-week national workshop on “Computational Methods in Engineering & Science” organized by NIT, Warangal during October 21-25, 2013.
4. Attended one-day workshop on “Mathematical Modeling and its applications for Engineers and Scientists” organized by JNTUH on 30th August 2013.
5. Attended a 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. Attended a Refresher course on “Environmental science (ID)”, organized by Academic Staff College, OU and sponsored by UGC at Osmania University from 01-8-12 to 25-8-12.
7. Attended a One day seminar on “Innovation and technology for sustainable development” organized by the Dept. of Physics and Chemistry and sponsored by IIPC – AICTE at MGIT on 12-04-12.
8. Attended a One day orientation Program on revised B.Tech 1st year Mathematics syllabus, organized by the Dept. of Mathematics, College of Engineering – Hyderabad, JNTUH on 19-09-09.
9. Attended an Orientation Course, organized by Academic Staff College, OU & sponsored by UGC at OU from 08-04-08 to 07-05-08.



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10. Attended a Two day training Program for Engineering Mathematics teachers organized by Dept. of Mathematics, University College of Engineering, OU & sponsored by TEQIP at OU from 22-12-06 to 23-12-06.
11. Attended a Workshop on “Effective communication” at MGIT from 20-06-05 to 30-06-05.
12. Attended an in house training program on “Personality development & Effective teaching methodology” at CBIT from 8-11-04 to 16-11-04.
13. Attended a One week in house training program on “Effective Teaching Methodology” from 24-11-03 to 29-11-03 at CBIT.

Online Certifications:

1. Attended 8 weeks NPTEL AICTE approved FDP on “Matrix Analysis with Applications” from 26 Aug 2019 to 18 Oct 2019 .
2. Attended 12 weeks NPTEL AICTE approved FDP on “Mathematical Methods and its Applications - 27 Jan 2020 to 17 Apr 2020.
3. 4 weeks coursera course on “Matrix Algebra for Engineers”.
4. 4 weeks coursera course on “Vector Calculus for Engineers“.
5. 8 weeks coursera course on “Introduction to Ordinary Differential Equations”.