

Dr. G Vijaya Lakshmi

Assistant Professor

Education Qualifications:
Specialization:

Doctor of Philosophy (Mathematics)
Applied Mathematics



ADDRESS:

- B- Block -Room No 104

JNTUH ID:

1779-210702-095702

EMAIL:

gvijayalakshmi_maths@mgit.ac.in

DATE OF JOINING:

28-07-2025

EXPERIENCE - 19 Years

- Teaching -19
- Research -10

SUMMARY:

- Publications - 16
- Conferences - 7
- Patents – 3
- Books –
- Honors/Awards -

EVENTS:

- Organized -
- Attended - 30

LET'S MEET ON SOCIAL:

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

Membership of Professional Bodies:

- Indian Science Congress Association
- International Association of Engineers(IAGEN)

Honors/Awards Received:

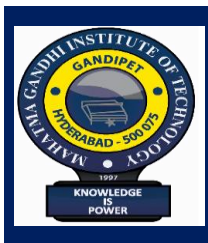
- I was awarded a merit certificate graded Elite + Silver having a consolidated score of **83%**

Courses Handled at Under Graduate /Post Graduate Level:

- 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.
- PG:** Algebra Real Analysis, Mathematical Methods, Number Theory, Function Analysis, Operations Research.

Publications:

- Dr. G Vijaya Lakshmi, "Statistical Analysis of Costs of OPEC crude oil prices using Machine Learning Techniques Lecture Notes in Computer Science June 2023(Online) DOI:https://doi.org/10.1007/978-3-031-36402-0_66 Scopus Indexed
- Dr. G Vijaya Lakshmi, " MHD Hybrid NanoLiquid PermeableStretching Sheetwith Radiation HeatTransferEnhancement Effect Passer Journal of basic and applied sciences ISSN:2706-5952Vol5,Issue2Pg No290-297June2023 (Online)DOI.org/10.24271/psr.2023.377379.1201Scopus Indexed
- Dr. G Vijaya Lakshmi, "Common fixed-point theorem for self-maps of S-metric spaces with a weak s-metric CVR Journal of Science andtechnologyEISSN:2581-7957 Vol22,Pg No161-164June2022DOI:10.32377/cvrjst2225
- Dr. G Vijaya Lakshmi, "MHD hydro-nanofluid flow over up right plate in presence of radiation and viscous dissipation AIP ConferenceProceedingsISSN:1551-7616Vol2375,Issue.1Pg No030008Oct2021<https://doi.org/10.1063/5.0066411>ScopusIndexed
- Dr. G VijayaLakshmi,"MHD Williamson nano fluid across a permeable medium past an extended sheet with constant and irregular thickness Heat Transfer Wiley ISSN 2688-4542 (Online) Vol50, Issue.8Pg No1-15 July 2021 DOI:10.1002/htj.22270 Scopus & Web of Science Indexed
- Dr. G Vijaya Lakshmi, " MHD Nano fluid over a stretching surface immersed in double stratified media with radiation and partial slip conditions. International Journal of Advanced science and technology, ISSN:2005-4238 (Print) ISSN:2207-6360(Online)Vol20,Issue.9s Impact Factor 0.41Pg No3204-3213HIndex May 2020 Scopus IndexedQ3
- Dr. G Vijaya Lakshmi, "MHD mixed convection stagnation point flow of nanofluid through a porous medium over stretching sheet International Journal of Pure and AppliedMathematicsISSN:1314-3395(Scopus)Vol 118, Issue 10PgNo:369-389Impactfactor0.635HIndexFeb2018ScopusIndexed



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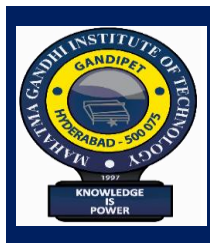
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8. Dr. G Vijaya Lakshmi, "Viscous dissipation effect on MHD nano fluid flow on an exponentially radiating stretching sheet thermally stratified medium International Journal of Pure and Applied Mathematics" ISSN:1314-3395(Scopus)Vol 118, Issue 10PgNo:147-165Impact factor 0.635H Index Feb2018 Scopus Indexed
9. Dr. G Vijaya Lakshmi, " A Common Fixed-Point Theorem for Compatible Mappings in S Metric Space Asian Journal of Science andTechnologyISSN:0976-3376Vol. 08, Issue, 11, PgNo.6421-6426, Impactfactor6.315Aug2017
10. Dr. G Vijaya Lakshmi, "Heat and Mass transfer in MHD stagnation point Nanofluid flow overstretching sheet in porous medium with Chemical Reaction and Prescribed surface heat flux International Journal of Computer &Mathematical Sciences ISSN:2347-8527Vol 6, Issue 7PgNo:1-10Impactfactor3.091
11. Dr. G Vijaya Lakshmi, "Joule heating and viscous dissipation effects on MHD boundary layer flow and heat transfer over an exponentially stretching sheet embedded in a thermally stratified Medium International Journal of Advancement inEngineeringTechnologyISSN:2349-3224 Vol3,Issue 12Pg No133-147Impactfactor3.102 Dec 2016
12. Dr. G Vijaya Lakshmi, " Radiation and Mass transfer effects on MHD boundary layer flow due to an exponentially stretching sheet with heat source-A Keller box approach International Journal of innovative trends in EngineeringISSN:2395-2946Vol 22, Issue 1PgNo.18-26 Impact factor 3.87 Sept 2016
13. Dr. G Vijaya Lakshmi, " A-Contractions Relative to a weak S-metric and common fixed-point theorems Asian Journal of Science and TechnologyISSN:0976-3376Vol. 07, Issue, 08, PgNo.3390-3396 Impact factor 6.315 Aug 2016
14. Dr. G Vijaya Lakshmi, " A common Fixed-Point Theorem on Lohani and Bhadshahusing A-compatible and S- Compatible mappings International Journal in IT and Engineering ISSN :2321-1776 Vol 2, Issue 10PgNo10-19Impactfactor3.570 Oct2014
15. Dr. G Vijaya Lakshmi, " Lexi search approach to travelling sales man problem International organization of Scientific Research ISSN:2278-5728Vol 6, Issue 4PgNo1-8Impactfactor3.09 7 May2013
16. Dr. G Vijaya Lakshmi, "The Great Mathematician Srinivasa Ramanujan International Journal IJRCM ISSN:2231-5756 Pg.No. 111-116 Impact factor Feb2013

Conferences:

1. "MHD Hybrid Nano Liquid Permeable Stretching Sheet with Radiation Heat Transfer Enhancement effect", RAEME, BK Birla Institute of Engineering &Technology, Pilani, 30th-31stMay2022.
2. "MHD Hydro Nano fluid flow of Radiative and Viscous Dissipation Heat Transfer of a Past Vertical Plate "International Conference on Applied Mathematical Models (ICAMM2021) - Online organized by Department of Mathematics, PSG College of Technology, Coimbatore, India.7th -9th January2021.
3. Hybrid Nano fluid exponential Stretching Sheet with MHD and Radiation Heat Transfer Enhancement effect", International Multidisciplinary conference, RBVRR Women'sCollege,Hyderabad,2nd and3rd Dec2022
4. "Heat and Mass transfer enhancement with Hydro Nano fluid flow with Chemical Reaction and Radiation effect" Two Day National e-Conference on Essence of Mathematics in Engineering Applications (EMEA-2020) On 2nd & 3rd December 2020, KL University, Guntur, Andhra Pradesh.
5. "Heat and Mass transfer in MHD stagnation point Nano fluid flow over stretching sheet in porous medium with Chemical Reaction and Prescribed surface heat flux" 3rd International Conference on New Frontiers of Engineering, Science, Management and Humanities (ICNFESMH-2017) 29thJuly2017, **IETE Chandigarh Conference.**
6. Electrical MHD mixed convection slip flow of Nano fluid near a stagnation point over a stretching sheet embedded in a porous medium with Joule heating and convective boundary conditions", National Conference on Recent Advances of Mathematical Techniques in Science and Engineering, Osmania University, July30-31,2017.
7. "Radiation and Mass transfer effects on MHD Boundary layer flow due to an exponentially stretching sheet with heat Source – A Keller Box Approach", National Conference on Computational Mathematics and Operations Research CMOR-16 organized by B.K.Birla Institute of Engineering and Technology Pilani,Rajasthan,15thand16th Oct 2016.



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Patents:

1. Patent on “Stability and Sensitivity Analysis of Nonlinear Boundary Value Problems with Time Dependent Delays” was published on 25-07-2025, No: 202541068271 A.
2. Patent on “Computational Analysis of the Consistency for the Navier-Stokes equation and the formation of a uniform velocity profile in a channel” was published on 21-10-2022, No: 202241058907 A.
3. Patent on “Sensor assembly for evaluating fluid dynamics for a mechanical system and method there of” was published on 23-12-2021, No: 202141060132 A.

Research & Consultancy:

UGC Minor Research Project on “Compatibility and Fixed-Point theorems ” for Rs. 1,60,000/- during 2015-2017.

Events Organized:

Conferences:

FDPs/STTPs:

1. One
2. Two

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

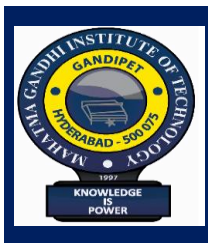
1. One.
2. Two

Events Attended

FDPs/STTPs:

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

1. Attended “NPTEL AWARENESSE-WORKSHOP” on 17th July 2023, SCSVMV Deemed to be University.
2. Attended one-week International FDP on “Mathematics in Real, Applied and Computational Domains”, on 3rd -8th July 2023, Sathyabama Institute of science and Technology Deemed to be University.
3. Attended National workshop on Numerical Computations using MATLAB on 6th&7th Sept, 2019 at Little Flower Degree College.
4. Attended Best practices on ICT Tools on 8th Oct, 2018 at Aurora Degree College, Hyderabad.
5. Attended National Conference on Recent Advances of Mathematical Techniques in Science and Engineering in the Department of Mathematics, O.U, Telangana 30.07.17 to 31.07.17.
6. Attended National Seminar on Recent Advances in Mathematics and its Applications, RBVRR Women’s College, Hyderabad, 06.08.2015 and 07.08.2015.
7. Attended A National Seminar on Emerging Research Trends in Mathematics and Computation in Department of Mathematics and Statistics, RBVRR Women’s College, Hyderabad, 14-06-14 to 15-06.14
8. Organized Inter –collegiate Student seminar on The Life and Works of Srinivasa Ramanujan RBVRR Women’s College, Hyderabad, 19.03.12.



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- <https://www.linkedin.com/company/mgithyderabad>
- https://twitter.com/MGIT_hyderabad

9. Attended a national level workshop in Advanced Techniques in Computational Fluid Dynamics in the Department of Mathematics, O.U, Telangana 24.02.12 to 25.02.12.

10. Attended workshop in GRID Mathematica & Computing at Aurora Engineering College, Hyderabad. 29.11.07 to 01.12.07.

11. Attended workshop in Mathematica at NIT Warangal.14.01.07.

12. Attended Mathematical lectures in Harmonic Analysis at St.Francis College, Begumpet, Hyderabad.10.08.06 to 14.08.06.

Online Certifications:

1. One-Week Online Short Term Course on "Deep Learning Techniques JNTUH-Online 10/02/2025 to 15/02/2025

Integrated Approaches in Fluid Mechanics, AI, ML & Data Science CVR college of Engineering from 02/06/25 to 07/06/25

2. The Role of Mathematical Modeling in Addressing Real-World Scenarios VIT-Online 14/10/24 to 18/10/24

3. REFRESHER COURSE IN MATHEMATICS Ramanujan College University of Delhi Secured -**Grade“A”**

4. “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 11-04- 2022 to 15-04-2022.

Any Other Contribution:

1. One
2. Two