

1 Name of Faculty Dr.G.Deepa  
 2 Designation Assistant Professor  
 3 Nature of Job/Appointment Regular  
 4 Date of Joining 07-06-2007  
 5 E-mail gdeepa\_maths@cbit.ac.in



6 Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy	Awarded
PG	M.Sc. (Applied Mathematics)	First Class with Distinction
UG	B.Sc. (Computers)	First Class

7 **Work Experience**

Teaching 15Years  
 Research 5Years  
 Industry --  
 Others --

8 Area of Specialization Fluid Mechanics

9 Professional Memberships APTSMS II

10 Responsibilities held at Institution Level -

11 Responsibilities held at Department Level Class time table in charge

12 Research Guidance -

13 Awards Received -

14 Courses Handled at Under Graduate / Post Graduate Level. Mathematics for I and II years and Number Theory for M-tech

15 No. of Papers Published National Journals – 01 International Journals – 05

National Conference – 01 International Conference – 00

16 Projects Carried out -

17 Patents 2

18 Technology Transfer -

19 Invited Speaker -

20 No. of Books/ Chapter Published with details 1

**WS/ Seminars/ Conferences/ STTPS/ FDPs Attended**

1. Participated in the One week online FDP on “Quality Education through OBE” organized by Chaitanya Bharathi Institute of Technology(Autonomous), Gandipet, Hyderabad500 075, Telangana, India., in association with IEEE Education Society Student Branch Chapter CBIT during 22nd - 27th January 2024
  2. Participated in the One Week International Faculty Development Program on "Mathematics in Real, Applied and Computational Domains" organized by the Department of Mathematics, School of Science and Humanities, Satyabama Institute of Science and Technology, Chennai, from 3 to 8 July, 2023.
  3. Attended the five-days online FDP on Software Tools using Mathematical Computation conducted by MUTHAYAMMAL ENGINEERING COLLEGE on 5 th – 9 th June 2023 organized by the department of computer science & Engineering as well as department of Mathematics.
  4. participated in One Week National Level Online Faculty Development Program on Recent Advances in Data Science, Data Analytics and Cyber Security from 1-5 March 2023 organized by the department of CSE at Shri Vishnu Engineering College for Women (A), Bhimavaram
  5. Participated in the five days workshop A "DIFFERENTIAL EQUATIONS AND IT'S APPLICATIONS" Under DBT - Star College Scheme Organized
- 21 Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/ Other Trainings (**Attended and/or organized**).

by Department Of Mathematics, Vivekananda College, Tiruvudagam West, Madurai - 625 234 from 21.02.2023 - 25.02.2023

6. Participated in 5 day online Teachers training program titled "USE OF ICT TOOLS IN TEACHING-LEARNING PROCESS" Jointly Organized by Department Of Physics, Zoology, Botany, Mathematics & Chemistry, Maharaja Bhoj Govt. P. G. College Dhar (M.P.), Academic activity under MPHEQIP (World Bank Project), under the aegis of IQAC during 16-20 Jan. 2023.
7. Participated in the AICTE Recognized Faculty Development Programme on "Smart Materials Processing and Applications" Conducted by Applied Science Department from 25/07/2022 to 29/07/2022 (One Week) at CBIT, Gandipet, Hyderabad.
8. Attended A two Week International FDP on "Research Perspectives in Mathematics and its Applications" organized by the Department of Mathematics, Sathyabama Institute of Science and Technology, Chennai, from July 4 to July 16, 2022.
9. Attended A One day online National Level Workshop on "Role of Mathematics in Research", organized by the Department of Mathematics, Vaagdevi College of Engineering, Bollikunta, Warangal Urban, Telangana, India, on June 18, 2022.
10. Participated in webinar series-1 on "Frontiers in Mathematics" organized by Department of Mathematics, School of Sciences SR University, Warangal, Telangana on 12 February 2022.
11. Participated in International Symposium on "MATHEMATICAL SCIENCES AND THEIR APPLICATIONS: MSATA-2022" JANUARY 28th&29th, 2022 organized by Department of Applied Mathematics, Yogi Vemana University, kadapa.
12. participation in the Two-Day International Webinar on "An Introduction to GeoGebra" Organized by Department of Mathematics, St. Xavier's College, Mapusa-Goa, Catalyzed and Supported by National Council for Science & Technology Communication, DST, Govt. of India, New Delhi and Goa State Council for Science & Technology, Saligao, Goa, on the occasion of National Mathematics Day 2021, held from 24th January to 25th January 2022.
13. Participated in Online International Faculty Development Program 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
14. Participated in five-day FDP on "Computational Mathematics and Recent Advances in Management Principles" held from 15/11/2021 to 19/11/2021 organized by Department of Management Studies and Department of Mathematics, at Swami Keshav Anand Institute of Technology Management & Gramatan, Jaipur.
15. Attended a one day webinar on "National Conference on Moral Values and Relevance of Swami Vivekananda's Thought in the Present World " held on 2<sup>nd</sup> November 2021 organized by the Swami Vivekananda Centre for Higher Research and Education, Alagappa University, Karaikudi.
16. Attended a one day webinar on "AN OVERVIEW OF MATHEMATICAL SCIENCES-TRB ASPIRANTS "held on 25th October 2021 organized by the Department of Mathematics, Kongu Engineering College.
17. Participated in the 'National webinar on "Fixed Point Theory and its Applications" during October 10-12, 2021, organized by the Department of Mathematics, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.
18. Participated in One Week Virtual International Lecture Workshop on "New Advances in Mathematical and Computational Sciences " (NAMCS-2021) Organized by Department of Applied Mathematics, Yogi Vemana University, Kadapa - 516005, A.P., INDIA during 13.09.2021 to 18.09.2021.
19. Participated in the 'National webinar on Cryptography't "during

September 10-12, 2021, organized by the KavayitriBahinabai Chaudhari North Maharashtra University, Jalgaon in collaboration with Indian Institute of Information Technology, Lucknow.

20. Participated in two week FDP on " "Research Advances in Mathematics and its Applications" Organized by the Department of Mathematics, Sathyabama Institute of Science and Technology, Chennai from 2<sup>nd</sup>-14<sup>th</sup> August 2021.
21. Participated in one day National webinar on "Latest Technological Tools for Teaching and Learning & Positive (LTTTLPT-2021)" Organized by the Department of Mathematics and Physics in collaboration with IQAC on 24<sup>th</sup> July 2021.
22. Participated in Three day National e-Workshop on "Sagemath" Organized by the Department of Mathematics, Thassim Beevi Abdul Kader College for Women, Kilakarai, held from 22<sup>nd</sup> – 24<sup>th</sup> July 2021.
23. Participated in one Week Faculty Development Program on "Recent Trends Application of Mathematics" Organized by the Department of Freshman Engineering, Chadalawada Ramanamma Engineering College, Tirupati from 12<sup>th</sup>-17<sup>th</sup> July 2021.
24. Participated in one day National level webinar on "A Brief Survey on selected topics on Real Analysis" Organized by the Department of Mathematics in collaboration with IQAC, Fakir Chand College, West Bengal on 08<sup>th</sup> July 2021.
25. Participated in one day National level webinar on "Control Systems in Robotics: Theory and Applications" Organized by the Department of Electrical and Electronics Engineering, Mandsaur University, Mandsaur, July 2021.
26. Participated in one day National level webinar on "Semi Numerical Method for Class of Boundary Value Problem for Nonlinear Ordinary Differential Equations" Organized by the Department of Mathematics, Shree Khasgatesh College of Arts, Commerce and Science, Vijayapur, Talikoti, Karnataka on 7<sup>th</sup> July 2021.
27. Participated in Nine-day National level online Faculty Development Program (FDP) on "Foregrounding the Spectrum of Character Building in Modern Human Life" organized by the Department of Humanities and Sciences, Balaji Institute of Technology and Science, Hyderabad from 25<sup>th</sup> June to 3<sup>rd</sup> July 2021.
28. Participated in one week Faculty Development Program (FDP) on "Research Practices in Thermo Fluid and Renewable Energy Systems" organized by the Department of Mechanical Engineering, Srinidhi Institute of Science and Technology, Hyderabad during 28<sup>th</sup> June to 3<sup>rd</sup> July 2021.
29. Participated in Six-day Faculty Development Program (FDP) on "Mathematics on Various plat forms" organized by the Department of Mathematics Bharat Institute of Engineering and Technology (BIET), Hyderabad during 17<sup>th</sup> to 22<sup>th</sup> June 2021
30. Participated in one-week online Faculty Development Program (FDP) on "Role of Mathematics in Latest Engineering Trends" organized by the Department of Mathematics under Department of Science and Humanities by Lords Institute of Engineering and Technology from 4<sup>th</sup> to 10<sup>th</sup> June, 2021
31. Participated in one-week online Faculty Development Program (FDP) on "IPR & Patent Prosecution" organized by the Department of Computer Science Engineering at MVSREC from 24<sup>th</sup> to 28<sup>th</sup> May 2021
32. Attended two day online National seminar on "Mathematical Modelling-A Comprehensive Approach" held at Loyola Academy Degree and PG College on 11-12<sup>th</sup> May, 2021.



33. Attended one day online National seminar for "IOT Real World" held at CBIT on 28<sup>th</sup> October, 2021.
34. Attended NPTEL online Certification on "Calculus of Several Variables" in the month of August-October 2019.
35. One day workshop as a coordinator in the Department of Mathematics with title "IAVM" in the month of August 29-31, 2019.
36. Participated in one-week Faculty Development Program (FDP) on "Data Science" organized by the E&ICT Academy, National Institute of Technology, Warangal at CBIT from 5<sup>th</sup> to 10<sup>th</sup> August 2019.
37. Attended one day seminar on "Physics and its Applications in Engineering" held at CBIT on March 13, 2019.
38. One day workshop as a coordinator in the Department of Mathematics with "Application of Mathematics in space sciences", in the month of November 2018.
39. Participated in "A national level Two Day Workshop on Interface of Statistical Analysis using R" organized by the Dept of M&H, CSE, & IT of CBIT, Hyderabad held on 9<sup>th</sup> & 10<sup>th</sup> of February, 2018.
40. Attended three weeks Refresher Course Organized by UGC Human Resource Development\* (ASC)- University of Hyderabad from 3-09-2015-23-07-2015
41. Participated in one week Faculty Development Program (FDP) on "Mathematical Modelling and Simulation Techniques" organized by Dept of M&H, held in CBIT from 5<sup>th</sup> to 10<sup>th</sup> May 2014.
42. Attended Faculty Development Program "English for Effective Communication" in CBIT from 5-7<sup>th</sup> of August 2014.
43. Presented a paper entitled "finite element analysis for effects of thermal radiation and chemical reaction on MHD free convection flow past a semi-infinite moving vertical porous plate" a two-day National conference on relevance of English, Mathematics & Management Sciences to technical courses on 3-4 April 2014, organized by MGIT, Hyderabad
44. Attended two-day workshop on Women in Science and Technology – Social impact in CBIT from 8-9<sup>th</sup> March 2013.
45. Attended four weeks Orientation Course Organized by UGC-Academic staff College- Osmania University from 3-7-2013-31-07-2013.
46. Attended National Conference on Recent Trends in Application of Mathematics & XXII Congress of APSMS 2013 Held at Anurag Group of Institutions Hyderabad from 13-15 Dec, 2013.
47. Attended two-day workshop on "Speech processing and its Applications in Engineering", held at CBIT from 23-24 August 2013.
48. Attended two-day National Conference on "Mathematical Sciences and Engineering Applications NCMSEA-2k12 conducted in BITS Vizag on 10<sup>th</sup>-11<sup>th</sup> of March, 2012
49. Attended two-day National workshop on "Advanced Techniques in Computational Fluid Dynamics" held at department of Mathematics, OU, on February 24- 25, 2012.
50. Participated in One-week in-house Training Program on "Effective Teaching Methodology" held at CBIT, from 25 – 30 of June 2007.

22 Details of Journal Publications/  
Conferences (National and  
International)

1. Dr.G.Deepa, " Joint effects of thermal diffusion and diffusion thermo on MHD three dimensional nanofluid flow towards a stretching sheet ", Mathematical Models In Engineering, ISSN PRINT 2351-5279, ISSN ONLINE 2424-4627

2. Dr.G.Deepa, "Heat and Mass Transfer solution of MHD Absorbing Convective Flow Past an Exponentially Accelerated Vertical Plate", Indian Journal of Natural Sciences, ISSN: 0976 – 0997, pp.42296-42308
3. Dr.G.Deepa, "Continuity Equations in Fluid Dynamics and Bianchi Identities", journal of Strad Research , ISSN: 0039-2049, 2021, pp.587-591.
4. Dr.G.Deepa, "Effects of Thermal Radiation and Chemical Reaction On Unsteady Hydromagnetic Mixed Convection Flow Past an Infinite Vertical Plate" , journal of Science and Arts , ISSN: 1844-9581, 2018, pp.736-776.
5. Dr.G.Deepa, "Analysis of Soret and Dufour effects on unsteady MHD convective flow past a semi-infinite vertical porous plate Via Finite Difference Method", International Journal of Applied Physics and Mathematics, volume 4, 2014, pp.332-344.
6. Dr.G.Deepa, "Effects of Viscous Dissipation on unsteady MHD free convective flow with Thermophoresis past a radiate inclined permeable plate", Iranian Journal of science and Technology , special issue 38A3, 2012, ISSN 1028-6276, 2014, pp.379-388.
7. Dr.G.Deepa, "Viscous Dissipation On Stagnation Point Flow and Heat Transfer of a Micropolar Fluid with Uniform Suction or Blowing", Advances in Applied Science Research, ISSN: 0976-8610, 2012, pp.430-439
8. Dr.G.Deepa, "Viscous Dissipative Effects on Moving Vertical Surface in the Presence of Magnetic Field", The Mathematics Education , Volume XLIII, No.1, March 2009, 23- 31.

22 Book

Applied Engineering Mathematics 978-93-9544-19-9, 2023

23 Patent

1. Method and system for utilizing symbol recognition Techniques for Dynamically assessing Mathematical expression in Documents
2. Mathematical Models for Predicting and Analyzing Complex Systems.

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