



Information Management and Emerging Engineering Department from 10-02-2025 to 14-02-2025 at CBIT.

4. Participated in the 5 – Day Online Faculty Development Program (FDP) on Emerging Trends in IT - 2025 organized by Departments of Emerging Technologies in Computer Science (ECS) & Computer Science & Engineering (CSE) held from 03rd to 07th February 2025.
5. Participated in FDP on “Gen AI & Chat GPT Application in the Industry Organized by the Department of MBA & Research Centre, SJC Institute of Technology, Chikkaballapur. Chaitanya Bharathi Institute of Technology Autonomous, Hyderabad – Telangana. Bharti Vidyapeeth (Deemed to be University) College of Engineering, Pune in Collaboration with ExcelR Edtech Pvt. Ltd. Date: 27th Jan to 31st Jan 2025.
6. Participated seven days National online FDP on “Various aspects of Computational Modelling ”.organized by the by the IQAC and PG & Research Department of Mathematics, Theivanai Ammal College for women (Autonomous), Villupuram on 3-1-2025 to 9-1-2025.
7. Participated One Week National Faculty Development Programme on “ Generative AI: Transforming Innovation in Technology and Education ”.organized by the by the school of Technology Management & Engineering NMIMS Indore in association with Madhya Pradesh Council of Science & Technology from 9-12-2024 to 13-12-2024
8. Participated One Week Short Term Training Program on “LaTeX” held from 02-12-2024 to 07-12-2024.organized by the Department of Mathematics, CSSR & SRM Degree & PG College
9. Participated in the One Week Virtual International Faculty Development Programme on ‘Fundamentals and Advances of Magnetic Materials (FAMM-2024)’ from May 20-24, 2024 organized by the Department of Physics, Chaitanya Bharathi Institute of Technology, Hyderabad, India.
10. Participated in One Week National Level Faculty Development Programme on “Essential Mathematics for Data Science and Machine Learning”. Organized by the Department of Artificial Intelligence and Machine Learning, Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad – 500 075, Telangana, India, from 5th to 9th February 2024.
11. participated in One Week National Level Faculty Development Program on “Multi-Disciplinary Research Trends in Artificial Intelligence and Data Science” Organized from 29th January to 02nd February 2024, by the Department of Artificial Intelligence and Data Science, Chaitanya Bharathi Institute of Technology (Autonomous), Hyderabad – 500 075, Telangana, India.
12. Participated in the One week online FDP on “Quality Education through OBE” organized by Chaitanya Bharathi Institute of Technology(Autonomous), Gandipet, Hyderabad 500 075, Telangana, India., in association with IEEE Education Society Student Branch Chapter CBIT during 22nd - 27th January 2024
13. 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.
14. 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.
15. 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
- 16. Participated in the five days workshop A "DIFFERENTIAL EQUATIONS AND IT'S APPLICATIONS" Under DBT - Star College Scheme Organized by Department Of Mathematics, Vivekananda College, Tiruvedagam West, Madurai - 625 234 from 21.02.2023 - 25.02.2023
  - 17. 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.
  - 18. 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.
  - 19. 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.
  - 20. 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 .
  - 21. 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.
  - 22. 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.
  - 23. 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.
  - 24. 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 29 th November, 2021 to 3 rd. December 2021
  - 25. Participated in five-day FDP on "Computational Mathematics and Recent Advances in Management Principles" held from15/11/2021 to 19/11/2021 organized by Department of Management Studies and Department of Mathematics, at Swami Keshav Anand Institute of Technology Management & Gramatan, Jaipur.
  - 26. 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 .
  - 27. 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.
  - 28. 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.

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29. 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.
  30. Participated in the 'National webinar on Cryptography't " during September 10-12, 2021, organized by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon in collaboration with Indian Institute of Information Technology, Lucknow.
  31. 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.
  32. 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.
  33. 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 22nd – 24th July 2021.
  34. 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.
  35. 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 08th July 2021.
  36. 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.
  37. 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.
  38. 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.
  39. 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.
  40. 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
  41. 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
  42. Participated in one-week online Faculty Development Program (FDP) on "IPR & Patent Prosecution"



1. Dr.G.Deepa, " Hall current and MHD impacts on a 3D Maxwell Nanofluid flow across a Porous Stretching Surface", 223(3)-2025 , Vol.73(8) -2025,pp. .
2. Dr.G.Deepa, " Numerical Investigation of MHD free convection flow past an infinite vertical plate with chemical reaction", ISSN 0022-2755, Vol.73(8) -2025,pp..
3. Dr.G.Deepa, " Analytical Study on heat transfer addition of different Nano liquids in vertical rotating system with CFD", ISSN 0315-3681, Vol.122 -2025,pp. 938-949.
4. Dr.G.Deepa, " Hall Current and MHD Impacts on a 3D Maxwell Nanofluid flow across a Porous Stretching Surface", Vol.223(3) -2025,pp. 899-914.
5. Dr.G.Deepa, " A Numerical Study on MHD 3-D Casson-Nanofluid Flow Past an Exponentially Stretching Sheet with Double Cattaneo-Christov Diffusion Effects", Vol.41(2) -2025,pp. 1-18.
6. Dr.G.Deepa, " Three Dimensional oldroyd-B fluid flow past a stretching surface with magnet field , Nanofluid particles and Cattaneo-Christov Double Diffusion Effects", ISSN: 2056-5135, Vol.69(2) -2025,pp. 299-320.
7. Dr.G.Deepa, " Three Dimensional Chemically Reacting Oldroyd-B Fluid + Nanofluid Flow in Presence of Thermophoresis and Brownian Motion Effects", Journal of Discontinuity, Nonlinearity & Complexity, ISSN 2164-6376, 14(2) -2025.
8. Dr.G.Deepa, "Study of Nano-Powell-Erying fluid flow past a porous stretching sheet by the effects of MHD, thermal and mass convective boundary conditions", Vol.15 -2024,pp. 271-281.
9. Dr.G.Deepa, " On Weakly Symmetries of  $\delta$ -Lorentzian Para Trans-Sasakian Manifolds", Journal of Computational Analysis and Applications, VOL. 33, NO. 7, 2024.
10. 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.
11. 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
12. Dr.G.Deepa, " Continuity Equations in Fluid Dynamics and Bianchi Identities", journal of Strad Research , ISSN: 0039-2049,2021, pp.587-591.
13. 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.

14. 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.
15. 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.
16. 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
17. 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. Aero-Adaptive Cooling for High- Perfomance Computing Using Fluid Dynamics.

24 Presented Paper in Conference

2. Method and system for utilizing symbol recognition Techniques for Dynamically assessing Mathematical expression in Documents

3. Mathematical Models for Predicting and Analyzing Complex Systems.

1. Smart Health Care using Artificial Intelligence-Powered Electronics Medical Records and Electronic Health Records.

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