

Department of Science & Humanities (Mathematics)

Personal Details

Name:	Mr. KARTHICK V
Designation:	Assistant Professor
Educational Qualification:	M.Sc., M.Phil., DCA. (PhD).
Experience:	14 years
Area of Specialization:	Graph Theory And Its Applications.

Educational Details

S.No.	Degree	Branch/Specialization	Institute/University	Year
1	B.Sc.,	Mathematics	Loyola College (Autonomous), Chennai -34	2006
2	M.Sc.,	Mathematics	Loyola College (Autonomous), Chennai - 34	2008
3	M.Phil.	Mathematics	Loyola College (Autonomous), Chennai - 34	2009

Publication Details

International Journal

1. "A Similarity studies of techniques in Data mining and big data" Published in the UGC approved journal - INTERNATIONAL JOURNALS OF INFORMATION AND COMPUTING SCIENCE with the impact factors 5.2 on June 2019.
2. A new dimension of graph theory technique in health care domain application" published in UGC approved journal- journal of emerging technologies and innovative research (An international open access journal) with impact factor 5.87 on 04 June 2019.
3. "A graph theory technique implementation in benefits of human organ blood circulation using MAT lab" published in international journal of science and engineering development research (An

international open access journal) in August 2019.

4. **"An investigation and analysis on hypercube embedded with fault tolerance"** published in UGC approved journal-journal of emerging technologies and innovative research (An international open access journal) with impact factor 5.87 on 24 September 2019.
5. **"An overview on Graph Network along with Deep Walk algorithm"** Published In JETIR (www.jetir.org) ISSN UGC Approved (Journal No: 63975) & 7.95 Impact Factor Published in Volume 9 Issue 1, January-2022 | Date of Publication: 2022-01-10.
6. **"A Metric Dimension Computation of Corona Graph"** published in International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 10, Issue 1, January-2022, and Impact Factor: 7.429, Available online at: www.ijaresm.com.

National Level Conference

1. **A comparative study of techniques in data mining and big data** published in NCASHT-2019 held on 11 & 12 July 2019 in Saveetha school of Engineering, Saveetha University, Chennai 602105.

Program Attended

Seminars / workshops / webinars

1. One day Workshop entitled **"Recent Developments in Corporate Laws"** Jointly organized by the Department of Corporate Secretary ship and ICSI at D.B.Jain College (Autonomous), Thorapakkam, Chennai - 97.
2. One day Faculty Development Programme entitled **"Working in SPSS"** organized by the Department of Management Studies at D.B.Jain College (Autonomous), Thorapakkam, Chennai - 97.
3. UGC sponsored national seminar on **"Globalization and its impact in India"**, D.B.Jain College, during December 2010.
4. UGC sponsored national seminar on **"Women Empowerment through Self Help Group"**, D.B.Jain College, during December 2010.
5. International Conference on **"Emerging trends and Practices in Management"** held on 20th August 2011 at D B Jain College.
6. Attended three days' workshop in **IMSC, Taramani, Chennai** on the area of algebra and differential equation in the month of March 2015.

7. Attended one day symposium on **Mathematics and their application** held on Dec 2014 in Mohamed Sathak college of arts and science, Chennai 600 119.
8. Attended three days faculty development programme in **Teaching Learning Centre, IITmadras**, Chennai in the month of November 2018.
9. Attended one day **workshop on Linear algebra** in Saveetha Engineering College held on July 2018.
10. Attended two days '**workshop on Algebra and Number Theory**' in Saveetha Engineering College held on 28 & 29 June 2019.
11. Attended one Day **National Seminar on Higher Education: Teaching – Learning** organized by **IQAC** held on 17 June 2019 at **Dr.MGR Janaki College of Arts and Science for Women**, chennai-600 028.
12. Attended FDP Webinar on **Online Teaching Techniques and Assessment** conducted by PG and Research Department of Commerce, **Holy Cross Home Science College, Thoothukudi** on 06 May 2020.
13. Attended webinar on **Effective Online Teaching and Students Engagement** conducted by **IEEE Young Professionals Madras Section** on 09 May 2020.
14. Attended webinar on **Exploring IEEE Power and society** conducted by **IEEE Young Professionals Madras Section** on 16 May 2020.
15. Attended webinar on **Super capacitors - New age Energy storage devices** conducted by Department of Physics, **AyyaNadarJanakiAmmal College, Sivakasi - 626124** on 19 May 2020.
16. Attended webinar on **Interdisciplinary Projects in Assistive Technology Engineering** conducted by **IEEE Young Professionals Madras Section** on 19 May 2020.
17. Attended live webinar on **Changing Dynamics of Education, Employment & Entrepreneurship Post Covid - 19** Organized by **Vels Institute of Science Technology and Advanced Studies** on 25 May 2020.
18. Attended three days FDP webinar on **Research Methods and Writing Skills in Mathematical Sciences** conducted by **PG and Research Department of Mathematics, Bon Secours College for Women, Thanjavur** from 25th to 27th May 2020.
19. Attended **two day webinar Recent Mathematical Software for High Impact Personalized Learning** organized by **Department of Mathematics, Vels Institute of Science, Technology and Advanced studies (VISTAS)** on 30.05.2020 and 31.05.2020
20. Attended **National Webinar Lecture Series on Impact and Application of Industry 4.0 after Lockdown** conducted by **Dr.MGR JANAKI college of Arts and Science for women,chennai - 28**, held from 29th May to 2nd June, 202.
21. Attended **National Level Webinar on Changing Education scenario of India**conducted by PG and Research Department of Commerce, **Holy Cross Home Science College, Thoothukudi** on 05 June 2020.
22. Attended webinar on **"Recent Advancement of Fuzzy Theory"** organized by Department of Mathematics, **Vels Institute of Science, Technology and Advanced studies (VISTAS)** on 09.06.2020.

23. Attended webinar on **“ADAPTING DIGITAL TECHNOLOGY IN EDUCATIONAL INSTITUTION”** organized by **BYNDR TECHNOLOGIES** on 10 June 2020.
24. Attended webinar on **"EXPERIMENTAL LEARNING- FOR A STRONGER ENGINEERING FOUNDATION"** organized by **Sri Eshwar College of Engineering, Coimbatore** on 13th June 2020.
25. Attended an **International webinar** on **“EMERGING TRENDS IN GRAPH THEORY”** organized by PG & RESEARCH DEPARTMENT OF MATHEMATICS, **SACRED HEART COLLEGE (AUTONOMOUS), TIRUPATHUR** from 14th to 16th June 2020.
26. Attended a **National Webinar** on **“STATISTICAL METHODS”** conducted by the Department of Maritime Commerce, **AMET Deemed to be University** on 18 June 2020.
27. Attended and participated in webinar series **“EXPLORING ADVANCES IN GRAPH THEORY”** conducted by PG & Research Department of Mathematics, **LOYOLA COLLEGE, Chennai** from 15th to 17th June 2020.
28. Attended **FACULTY DEVELOPMENT PROGRAM –“ACTIVE LEARNING AND ADVANCED SCIENTIFIC COMPUTING METHODS “**organized online by Department of Physics, **LOYOLA COLLEGE (AUTONOMOUS), Chennai** during 15 to 19 June 2020.
29. Attended Online **National Webinar** on **“GRAPH DECOMPOSITION USING GRAPH LABELINGS”** Organized by the Department of Mathematics, **ST.JOSEPH’S INSTITUTE OF TECHNOLOGY, Chennai** on 27th June 2020.
30. Attended two days webinar on **“APPLICATION OF ADVANCED MATHEMATICS AND STATISTICS”** organized by PG & Research Department of Mathematics and Statistics, **MARUDHAR KESARI JAIN COLLEGE FOR WOMEN, VANIAMBADE** from 29th to 30th June 2020.
31. Attended webinar on **“OPTIMIZATION MODELS USING FUZZY NUMBERS “**organized by PG & Research Department of Mathematics, **HOLY CROSS COLLEGE (AUTONOMOUS), and TIRUCHIRAPALLI**, held on 30th June 2020.
32. Attended webinar on **“IMPACT OF NON LINEAR DIFFERENTIAL EQUATION IN CHEMICAL SCIENCES”** organized by Science and Humanities, **HINDUSTAN COLLEGE OF ENGINEERING AND TECHNOLOGY**, held on 30th June 2020.
33. Attended webinar on **“MATHEMATICAL MODELING OF INFECTIOUS DISEASES WITH SPECIAL FOCUS ON COVID- 19”** organized by **Division of Mathematics, School of Advanced Science, VELLORE INSTITUTE OF TECHNOLOGY**, Chennai on 2 July 2020.
34. Attended **two days online FDP on " APPLICATIONS OF MATHEMATICS IN ENGINEERING”** organized by Department of Mathematics & Humanities, **MAHATMA GANDHI INSTITUTE OF TECHNOLOGY**, Hyderabad during 3rd and 4th July 2020.
35. Attended webinar on **"IEEE PUBLICATION PROCESS"** organized by Department of Computer Science and Engineering, **VIDHYAVARDHAKA COLLEGE OF ENGINEERING, Karnataka, India** on 6th July 2020.

36. Attended webinar titled" **MOODLE - ONLINE TEACHING MANAGEMENT TOOL**" organized by Department of Management Science, **DR.BABASHAHEB AMBEDKAR MARATHWADA UNIVERSITY, Aurangabad MS** , held on 6th July 2020.
37. Attended webinar on "**DIGITAL COMMUNICATION- THE NEW SUCCESS MANTRA**" Organized by Department of English and Communication, **VVM's SHREE DAMODAR COLLEGE OF COMMERCE AND ECONOMIC, Goa** on 6th July 2020.
38. Attended live webinar on "**INNER PRODUCT SPACE**" organized by PG& RESEARCH DEPARTMENT OF MATHEMATICS, **URUMU DHANALAKSHMI COLLEGE, Tirchy** on 06 - 07 -2020.
39. Attended **six days National webinar series on "APPLICATION OF MATHEMATICS"** organized by Department of Mathematics, **KPR COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS), Coimbatore** during 6th to 11th July 2020.
40. Attended one day webinar on "**TOTAL LABELING IN GRAPHS**" organized by Department of Mathematics, **THIAGARAJAR COLLEGE OF ENGINEERING, Madurai** on 8th July 2020.
41. Attended an Expert webinar on "**APPLICATION OF MATHEMATICS IN ENGINEERING**" organized by Department of Humanities &Science, **RAJALAKSHMI ENGINEERING COLLEGE in association with INSTITUTION'S INNOVATION COUNCIL, REC, Chennai** on 8th July 2020.
42. Attended webinar on "**COVID 19 & ITS IMPACT ON MSME UNITS**" organized by Department of Commerce, **RATHINAM COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS), and COIMBATORE- 641021.**
43. Attended a one day webinar on "**EXPLORING GRAPH THEORY APPLICATIONS WITH GRIN (GRAPHINTERFACE) SOFTWARE**" by math club, Department of Mathematics, **THIAGARAJAR COLLEGE OF ENGINEERING, Madurai** on 15th July 2020.
44. Attended a webinar on "**EIGEN VALUE PROBLEMS IN CIVIL ENGINEERING**" conducted by Department of Mathematics, **KPR INSTITUTE OF ENGINEERING & TECHNOLOGY, Coimbatore-641407, held on 16 - 07 - 2020.**
45. Attended **National Level** webinar on "**ADVANCES AND APPLICATIONS OF DISCRETE MATHEMATICS**" organized by **SHRI SHIVAYOGI MURUGHENDRA ARTS SCIENCE AND COMMERCE COLLEGE, ATHANI** held on 17 July 2020.
46. Attended **National Level** online webinar on "**SPECTRAL GRAPH THEORY: A BRIEF INTRODUCTION**" organized by **ST.JOSEPHS INSTITUTE OF TECHNOLOGY, OMR, Chennai** held on 20 July 2020.
47. Attended **six days FDP** on "**APPLICATION OF MATHEMATICS IN ENGINEERING**" conducted by Department of Mathematics, **KPR INSTITUTE OF ENGINEERING & TECHNOLOGY, Coimbatore 641407** held from 20-07-2020 to 25-07-2020.
48. Attended **Five days FDP** on "**APPLICATION OF MATHEMATICS IN ENGINEERING**" conducted by Department of Mathematics, **KPR INSTITUTE OF ENGINEERING & TECHNOLOGY, Coimbatore 641407** held from 27-07-2020 to 31-07-2020.

49. Attended **Five days FDP** on "**RECENT TRENDS IN APPLICABLE MATHEMATICS**" organized by Department of Mathematics, **KARUNYA INSTITUTE OF TECHNOLOGY & SCIENCE, Coimbatore** held from 27-07-2020 to 31-07-2020.
50. Participated in the national webinar on "**APPLICATION OF LINEAR TRANSFORMATION IN COMPUTER GRAPHICS**" held on 29-07-2021 organized by the Department of Mathematics in association with **INTERNAL QUALITY ASSURANCE CELL** of **GURUNANAK COLLEGE (AUTONOMOUS)**, Chennai-42.
51. Participated in the national webinar on "**GRAPH LABELING AND COLOURING TOOLS**" held on 31-07-2021 organized by the Department of Mathematics in association with **INTERNAL QUALITY ASSURANCE CELL** of **GURUNANAK COLLEGE (AUTONOMOUS)**, Chennai-42.
52. Participated in the webinar on "**RELEVANCE OF MATHEMATICS IN CONTROL SYSTEM**" held on 07-08-2021 organized by the Department of Mathematics, **KPR institute of Engineering and Technology**, Coimbatore.
53. Participated in the national level webinar on "**SPACE, NUMBER AND SYMMETRY**" held on 19-08-2021 organized by the Department of Mathematics in association with **INTERNAL QUALITY ASSURANCE CELL** of **GURUNANAK COLLEGE (AUTONOMOUS)**, Chennai-42.
54. Participated in the national webinar on "**GRAPH OPTIMIZATION-RESEARCH APPROACH**" held on 21-08-2021 organized by the Department of Mathematics, **GURUNANAK COLLEGE (AUTONOMOUS)**, Chennai-42.
55. Participated in the national webinar on "**APPLICATION OF DIFFERENTIAL AND INTEGRAL CALCULUS IN ENGINEERING**" held on 18-09-2021 organized by the Department of Mathematics, **Saveetha Engineering College (AUTONOMOUS)**, and Chennai.
56. Participated in one day international webinar on "**MULTIPLICATIVE INVERSE FUNCTIONAL EQUATIONS AND THEIR APPLICATIONS**" held on 29-10-2021 organized by the PG & Research Department of Mathematics, **St. Joseph's College of Arts & Science (AUTONOMOUS)**, CUDDALORE-607001.
57. Participated in one day online international conference **On "Mobile Technologies: Use Of Mobile Devices In Library"** jointly organized (under MOU's) by Shrichhatrapati Shivaji College, Omerga, lokmanyatilakmahavidyalaya, wadwani & Smt. Sushiladevi Shmukh Mahila Mahavidyalaya, latur on 7th FEB 2022.
58. Participated in international webinar on "**Intelligent Optimization Techniques & Their Application**" organized by Department of Mathematics – Punjabi University, Patiala, India on 25 – 27 Feb 2022 in collaboration with University of Walverhampton.
59. Participated in one day National Online Faculty Development Programme on "**Essential Soft skills for Impactful Professional Career**" on 11 February 2022 sponsored by IQAC: Indian Institute of management and commerce.
60. Participated in National symposium on "**Novel Approaches towards Biomathematics**" on 14-02-2022 organized by PG & Research Department of Mathematics, Sri Saradha College for Women (Autonomous), Selam – 636016.

61. Participated in **international Webinar** on “**Intelligent Optimization Techniques and their real life application**” organized by Department of Mathematics, Punjabi University, Patiala, India from 25-27 February 2022.
62. Attended FDP on “**CONFORMAL MAPPING COMPLEX ANALYSIS**”, organized by Department of Mathematics in association with IQAC & SIR C V RAMAN RESEARCH COLLOQUIUM, SRM institute of Science & Technology, Vadapani, Chennai-26 held on 21-09-2022.
63. Participated in a two days International FDP on “**Current Trends in Application of Mathematics**” organized by the Department of Mathematics, School of Science & Humanities, Vel Tech Rangarajan Dr. Sagunthala R&D institute of Science and Technology, Avadi, Chennai-62 from 21-09-2022 to 04-10-2022.
64. Participated in two weeks international FDP on “**Research Perspectives in mathematics and its Applications**” organized by the department of mathematics, sathyabama Institute of Science & Technology, Chennai, from July 4 to July 16, 2022.
65. Attended one week online FDP on “**Recent Research Area and its Application on mathematics**” conducted by Vel Tech Multi Tech Dr. Rangarajan Dr. Sagunthala Engineering College from 10th to 15th October 2022.
66. Participated in webinar on “**Innovative Approach to Fuzzy Graph theory**” organized by Department of mathematics for innovation, SIMATS School of Engineering, SIMATS, Thandalam, Chennai-105 held on 02-11-2022.
67. Participated in webinar on “**Innovative mathematics Model in Ecology**” organized by Department of mathematics for innovation, SIMATS School of Engineering, SIMATS, Thandalam, Chennai-105 held on 09-11-2022.
68. Participate in the five days national FDP on “**Applicability of Mathematical Sciences at Global Context**” organized by Department of Mathematics, Bon Secours college for Women, Thanjavur from 20th Feb to 24th Feb 2023.
69. Participated in two days FDP on “**Role of teachers in Outcome based Education**” organized by the IQAC cell, Kings Engineering College from 27-06-2023 to 28-06-2023.
70. Participated in one week International FDP on “**Mathematics in Real, Applied and Computational Domains**” organized by Department of Mathematics, sathyabama Institute of Science and Technology, Chennai from 3rd to 8th July 2023.
71. Participated in one week International FDP on “**Applicability of Mathematical Science in Emerging World**” organized by Department of Mathematics, sathyabama Institute of Science and Technology, Chennai from 7th to 12th August 2023.
72. Participated in five days FDP on “**Recent Advances in Applied Mathematics**” organized by Department of Mathematics, Sri Manakula Vinayagar Engineering College, Madagadipet, Pondicherry from 04-09-2023 to 08-09-2023.
73. Participated in five days online FDP on “**Research Methodology: Ethics & Publications**” organized by IQAC and PG & Research Department of Mathematics, Theivanai Ammal College for Women (Autonomous), Villupuram on 22-01-2024 to 26-01-2024.

74. Attended online FDP on “**Latest Trends on Computational mathematics – Theory, Methods & Applications**” conducted by Department of Mathematics, JIS University, during 26-02-2024 to 01-03-2024.

75. Participated in five days FDP on “Exploring **Real-World Applications in Mathematics**” organized by the Department of Mathematics, Vels Institute of Science, technology and Advanced studies (VISTAS) from 22-04-2024 to 26-04-2024.