

Name: J KOMATHI	Photo 			
Designation:	ASSISTANT PROFESSOR			
Qualification:	M.Sc., M.PHIL., (Ph.D)			
Area of specialization:	MATHEMATICS			
Experience:	Industrial Experience		Teaching Experience	
	NIL		15	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	8		29	
Publications:	Conference		Journal	
	National	Internatio nal	National	International
	1	2	2	3
Books / Book Chapters				
Patents:	National		International	
	1		0	
Professional Body Membership	IEEE, Life Member of ISTE, International Society of Fuzzy Set Extensions and Applications(ISFSEA)			

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks	Class obtained
UG	B.Sc.,	Mathematics	2006	Ethiraj College for Women	University of Madras	76%	I class with distinction
PG	M.Sc	Mathematics	2008	Meenakshi college for Women	University of Madras	77%	I class with distinction
	M.phil	Graph theory	2009	A.M. Jain college	University of Madras	79%	I class with distinction
Ph.D		Fuzzy graphs	Pursuing	Sri Venkateswara college of engineering	Anna university		

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Madha College of Engineering.	Lecturer	07.12.2009	06.01.2011	1	1	
Indira Gandhi Engineering College for Women.	Assistant Professor	02.07.2013	01.07.2013	2	-	-
Sri Sairam Engineering College	Assistant Professor	25.06.2014	Till date	11	1	0
Total				14	2	0

Journal Publications: 5

1. Published a paper "Study of Fuzzy Magic Graph on Intuitionistic space" in scopus indexed journal International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-7 Issue-5, January 2019
2. Published a paper "Bimagic Labeling on families of graphs in Fuzzy Intuitionistic Space" in "Test Engineering and Management" (ISSN: 0193-4120), Vol : May 2020.

3. Published a paper "Face magic Labelling on Intuitionistic space" in International Conference on Applied Mathematics and Computing (ICAMC2023) ISBN: 978-93-90956-07-4, JAN 2023
4. Published a paper "INTUITIONISTIC FUZZY SEMI-MAGIC LABELING OF HUMAN CHAIN GRAPH" in Palestine Journal of Mathematics, OCT 2025 (ISSN 2219-5688)
5. Published a paper "A valent-based metric framework for analyzing intuitionistic fuzzy graphs in uncertain environments" in Ain Shams Engineering Journal, Volume 17, Issue 1, 2026, 103817, ISSN 2090-4479, (Impact Factor 5.9) <https://doi.org/10.1016/j.asej.2025.103817>.

Patent: 1

1. MULTI-ROTOR HORIZONTAL WIND TURBINE (IN/PA No. IN/PA No. 3440)

Resource Person: 3

1. Reviewer in Journal of Fuzzy Logic and Intelligent System.
2. Reviewer in Journal of Fuzzy Extension and Applications.
3. Reviewer in International Journal of Management and Fuzzy Systems.

Workshops/Seminars attended: 8

1. Participated a 2 days seminar on "Recent trends in Graph theory & Combinatorics" on 26.07.2016 & 27.07.2016 at Meenakshi college for women, Chennai
2. Participated in a workshop on "FUZZY OPTIMIZATION ALGORITHMS" AT Vellore Institute of Technology, Chennai on 3rd Aug 2019.
3. Participated in a one day workshop on "INTELLECTUAL PROPERTY RIGHTS & INNOVATIONS" at Sri Sairam Engineering College, Chennai on 20th July 2019.
4. Participated in a six days workshop on "Technical Document Preparation using LaTeX" at Dr. S. & S. S. Ghandhy Government Engineering College, Surat on 08.06.2020-13.06.2020
5. Participated in Technical workshop for NPTEL stars on 06.07.2025 at IIT Madras
6. Participated in the Three Days International Online Workshop on Academic Writing: Ethical Issues conducted from 14th June to 16th June 2025 by Institute for Statical and Analytical research
7. Completed LIVE WORKSHOP ON Generative AI Tools on 9th July 2025 by skill nation
8. Completed one week workshop on "Panchayat administration and rural development schemes" conducted by State rural development and panchayat raj, maraimalai nagar.

Online Courses: 37

1. Successfully completed "Introduction to Abstract and Linear Algebra" course on aug-oct 2018 by NPTEL-AICTE with Elite.
2. Successfully completed "Fuzzy logic and Neural networks" course on Mar-Apr 2019 by NPTEL-AICTE with Elite.
3. Successfully completed "CO PO ATTAINMENT CALCULATION AND ANALYSIS" by IPODS

4. Successfully completed “DIGITAL TEACHING TECHNIQUES” by ICT ACADEMY on 29.06.2020 - 04.07.2020
5. Successfully completed “MATLAB Workshop with Application in Linear Algebra” by Bangalore Institute of Technology on 11.05.2020 -16.05.2020
6. Successfully completed “COMPLETE PYTHON BOOTCAMP-GO FROM ZERO TO HERO IN PYTHON 3” by UDEMY
7. Successfully completed “Understanding Research Methods (COURSERA)” by UNIVERSITY OF LONDON
8. Successfully completed “DEEP LEARNING ONRAMP” by MATHWORKS
9. Successfully completed “MACHINE LEARNING ONRAMP” by MATHWORKS
10. Successfully completed “MATLAB ONRAMP” by MATHWORKS
11. Successfully completed “STATISTICS AND R” by edX-HarvardX
12. Successfully completed “DATA SCIENCE MATH SKILLS (coursera)” by DUKE UNIVERSITY
13. Successfully completed “Successful Negotiation: Essential Strategies and Skills (coursera)” by UNIV OF MICHIGAN
14. Successfully completed “AI For Everyone (coursera)” by DEEP LEARNING AI
15. Successfully completed “six sigma tools for analyze (coursera)” by univ system of Georgia
16. Successfully completed “STG a global tanspidarey vision for future (COURSERA)”
17. Successfully completed “beyond the STG (coursera)”
18. Successfully completed “Six Sigma Tools for Define and Measure (COURSERA)” by Kennesaw State University
19. Successfully completed “Descriptive Statistics with R software” course on Mar-Apr 2021 by NPTEL-AICTE with Elite
20. Online course on Module - I - Orientation towards Technical Education and curriculum aspects conducted by NITTTR.
21. Online course on Module - II - Professional Ethics and Sustainability conducted by NITTTR.
22. Online course on Module-III- Communication skills, Modes & Knowledge Dissemination by NITTTR.
23. Online course on Module-IV - Instructional Planning and Delivery by NITTTR.
24. Online course on Module - V - Technology Enabled Learning and Life-Long Self Learning conducted by NITTTR.
25. Online course on Module - VI - Student Assessment and Evaluation conducted by NITTTR.
26. Online course on Module - VII - Creative problem Solving,innovation and Meaningful R&D conducted by NITTTR.
27. Online course on Module -VIII- Institutional Management & Administrative Procedures by NITTTR.
28. Successfully completed the course “Accreditation and Outcome Based Learning” on (Aug-Oct 2023) (8 weeks)NPTEL
29. Successfully completed course “Teaching And Learning in Engineering (TALE)” on (Jan- Feb 2024) (8 weeks)NPTEL
30. Successfully completed the course “Ethics in Engineering Practice” on (Feb-Apr 2024) (8 weeks)NPTEL
31. Successfully completed the course “Designing Learner-Centric E-learning in STEM Disciplines” on (Jul-Dec

- 2024) (4 weeks)NPTEL
32. Successfully completed the course “Technical Communication for Engineers” on (Jul-Dec 2024) (4 weeks)NPTEL
 33. Successfully completed the course “Advanced R Programming for Data Analytics in Business” on (Jul-Oct 2025) (12 weeks)NPTEL
 34. Successfully completed the course “Technical Communication for Engineers” on (Jul-Dec 2024) (4 weeks)NPTEL
 35. Successfully completed the course “Social Emotional Education: Knowledge to Practice (SEEK)” on Nov 2025 conducted by UNESCO MGIEP MAHATMA GANDHI INSTITUTE OF EDUCATION FOR PEACE AND SUSTAINABLE DEVELOPMENT.
 36. Successfully completed the course “Advanced R Programming for Data Analytics in Business” on (Jul-Oct 2025) (12 weeks)NPTEL
 37. Successfully completed the course “Leadership and Team Effectiveness” on (Jul-Oct 2025) (12 weeks)NPTEL

FDP/STTP Attended: 27

1. FDP on Discrete Mathematics at DMI engineering college on 5th - 12th June 2013, Chennai.
2. NPTEL – AICTE Faculty development programme funded by ministry of HRD on “Introduction to abstract and linear algebra” on Aug – Oct 2018 (8 weeks).
3. NPTEL – AICTE Faculty development programme funded by the ministry of HRD on “Fuzzy logic and neural networks' ' on Mar-Apr 2019 (8 weeks).
4. FDP on “Entrepreneurship career Development Program” on 8th -12th April 2019 at Sri Sairam Institute of Management Studies, Chennai.
5. FDP on “Emotional Intelligence” Conducted by ICT Academy on 10th June 2019 at KCS Kasi Nadar College of Arts & Science, Chennai.
6. FDP on “Recent Trends In Applied Mathematics” at SNS College of Technology, Coimbatore on 02.06.2020 - 06.06.2020
7. FDP on RECENT ADVANCEMENT IN GRAPH THEORY, MATHEMATICAL BIOLOGY, AUTOMATA THEORY at ST.JOSEPH COLLEGE OF ENGG on 28.05.2020 - 30.05.2020
8. FDP on “Research Methods and Writing Skills in Mathematical Sciences” at BON SECOURS COLLEGE FOR WOMEN on 25.05.2020 - 27.05.2020
9. Participated in ATAL Online FDP on "Blended learning and flipped classroom" conducted by VIT Vellore from 18.01.2021 to 22.01.2021
10. Participated in ATAL online FDP on Sustainability Engineering conducted by Gaya College of Engineering, Gaya. from 17.08.2020 to 21.08.2020
11. FDP on “Ethics,Moral Values,Behavioral Science and Attitude” conducted byCollege of Engineering, Trivandrum 12.10.2020 to 16.10.2020
12. National Level Online Short Time Training Program on "MATLAB for ALL" conducted by Sir M Visvesvaraya Institute Of Technology, Bangalore from 04.06.2020 to 08.06.2020

13. NPTEL – AICTE Faculty development programme funded by ministry of HRD on “Descriptive Statistics with R software” on Mar-Apr 2021 (8 weeks)
14. FDP on “Learning management system” by NITTR Chennai on 15.03.2021 to 19.03.2021
15. 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education(AICTE) from 8 March, 2021 to 12 March, 2021.
16. Six days Anna University sponsored online FDTP on MA8352/Linear Algebra and Partial Differential Equations organized by Sri Sairam Engineering College(Autonomous). 11-07-2022 to 16-07-2022
17. FDP on “EMPOWERING EDUCATORS: STRATEGIES FOR HOLISTIC TEACHING AND PROFESSIONAL GROWTH” held from 18-12-2023 to 22-12-2023 organised by IQAC,SRI MALOLAN COLLEGE OF ARTS AND SCIENCE
18. NPTEL Faculty development programme “Ethics in Engineering Practice” on (Feb-Apr 2024) (8 weeks)
19. NPTEL Faculty development programme “Teaching And Learning in Engineering (TALE)” on (Jan- Feb 2024) (8 weeks)
20. NPTEL Faculty development programme “Accreditation and Outcome Based Learning” on (Aug-Oct 2023) (8 weeks)
21. Faculty development programme on “How to write really good articles for premier academic journals” organized by Dr. D.Y.Patil B-School in online mode on 28th May 2024
22. ONE WEEK FACULTY DEVELOPMENT PROGRAMME on "MATHEMATICAL FOUNDATION FOR AI, ML & DATA SCIENCE" organised by the Department of Mathematics, SRM Institute of Science and Technology, Vadapalani Campus, Chennai from 11th to 19th June 2024.
23. 5-Day Faculty Development Programme on “Financial Mathematics, SPDE Theory, Mathematical Modelling and Current Numerical Trends” organized by School of Advanced Sciences (SAS), VIT-AP University, India, held from 24th to 28th June 2024.
24. 5-day Face-to-Face UHV-II FDP organized by All India Council for Technical Education (AICTE) at Sri Sai Ram Engineering College, Chennai from 23rd January to 27th January 2024.
25. NPTEL Faculty development programme “Teaching And Learning in Engineering (TALE)” on (Jan feb 2024) (8 weeks)
26. NPTEL Faculty development programme “Ethics in Engineering Practice” on (Feb-Apr 2024) (8 weeks)
27. NPTEL Faculty development programme “Designing Learner-Centric E-learning in STEM Disciplines” on (Jul-Dec 2024) (4 weeks)
28. NPTEL Faculty development programme “Technical Communication for Engineers” on (Jul-Dec 2024) (4 weeks)
29. NPTEL Faculty development programme “Advanced R Programming for Data Analytics in Business” on (Jul-Oct 2025) (12 weeks)
30. NPTEL Faculty development programme “Leadership and Team Effectiveness” on (Jul-Oct 2025) (12 weeks)

Conference Attended: 5

1. Participated in a National conference on Emerging trends in Mathematics on 12th and 13th Dec 2017 at Ethiraj College for women, Chennai.
2. Presented paper a National conference on “Recent trends in fuzzy mathematics & its applications” on 26th & 27th of October 2018 at SRM Institute of science and technology, Ramapuram, chennai-89
3. Presented paper at “Third National Conference on Emerging Trends in Mathematical Sciences” on 20th Dec 2018 at S.A. Engineering college, Chennai-77
4. Presented paper at “ International conference on mathematical modeling” on 27th and 28th January 2023 at Bharathiar University, Coimbatore.
5. Presented paper at “ International conference on Applied Mathematics and computing” on 27th and 28th February 2023 at Dwaraka Doss Goverdhan Vaishnav College, chennai.

Webinar: 37

1. Webinar on “Exploring Swayam, NPTEL and other online Learning Platforms” at SRM ARTS & SCIENCE on 10.06.2020
2. Webinar on “ALGEBRAIC GRAPH THEORY” at GOVERNMENT ARTS COLLEGE FOR MEN NANDANAM, CHENNAI-35 on 01.06.2020
3. Webinar on “MATHEMATICAL MODELING IN BIOLOGICAL NETWORKS” at SRI MALOLAN COLLEGE OF ARTS AND SCIENCE, CHENGALPET on 18.06.2020
4. Webinar on “STATISTICS FOR DATA ANALYTICS” at KPR INSTITUTE OF ENGG & TECHNOLOGY COIMBATORE on 19.06.2020
5. Webinar on “LINEAR PROGRAMMING PROBLEMS” at SRI RAMAKRISHNA INSTITUTE OF TECHNOLOGY on 20.06.2020
6. Webinar on “HOW TO CREATE COURSE and Course activities in Open Source Online Learning” at HINDU COLLEGE:: GUNTUR on 14.06.2020
7. Two days Webinar on “APPLICATION OF Mathematics in mechanical engineering” at KPR INSTITUTE OF ENGG & TECHNOLOGY COIMBATORE on 11.06.2020 - 12.06.2020
8. Webinar on “Graph Networks And Its Applications” at HINDUSTHAN College of Arts and Science, Coimbatore on 04.06.2020 - 05.06.2020
9. Webinar on “Creative Teaching for Effective Class Handling” at THIRUTHANGAL NADAR COLLEGE on 02.06.2020
10. Webinar on “Time Series in Equity Market” at HINDUSTHAN COLLEGE OF ENGG & TECH on 15.06.2020
11. Webinar on “Graph Colorings and its Applications” at Chevalier T Thomas Elizabeth College for Women on 09.06.2020
12. Webinar on “WEBINAR ON MATHEMATICAL METHODS IN SOFTCOMPUTING” at HINDUSTHAN COLLEGE OF ENGG & TECH, COIMBATORE on 11.06.2020
13. Webinar on “FUZZY LOGIC & ITS APPLICATION” at SRM TRP ENGG COLLEGE, TRICHY on

29.05.2020

14. Two days Webinar on “GRAPH THEORY FUZZY MODELS” at SRIDEVI ARTS & SCIENCE, PONNERI on 08.06.2020-09.06.2020
15. Webinar on “RECENT ADVANCEMENT IN FUZZY THEORY” at VELS UNIVERSITY on 09.06.2020
16. Webinar on “CERTAIN APPLICATIONS OF GRAPH THEORY” at ST.THOMAS COLLEGE OF ARTS AND SCIENCE on 04.06.2020
17. Three days Webinar on “THREE DAYS INTERNATIONAL WEBINAR ON GRAPH THEORY & HUMAN FACTORS IN AVIATION” at G. VENKATASWAMY NAIDU COLLEGE, KOVILPATTI on 03.06.2020-05.06.2020
18. Webinar on “CURRENT RESEARCH IN FUZZY MATHEMATICS” at SRI PUSHPAM COLLEGE THANJAVUR on 24.05.2020
19. Webinar on “Computational Fluid Dynamics” at SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING on 04.06.2020
20. Webinar on “EVERYTHING ABOUT FUZZY” at VIT on 05.06.2020
21. Two days Webinar on “FUZZY LOGIC AND NEURAL NETWORK APPROACHES FOR ENGINEERING SOLUTIONS” by JOURNAL OF ADVANCED ENGINEERING RESULTS on 29.04.2020 - 30.04.2020
22. Webinar on “GRAPHS IN LIFE” at DON BOSCO COLLEGE OF ARTS AND SCIENCE on 29.05.2020
23. Webinar on “Introduction to LaTeX” at LOGANATHA NARAYANASAMY GOVERNMENT COLLEGE, THIRUVALLUR on 28.05.2020
24. Webinar on “”What does Spectral Theorem really says? - A Simple Version” at Annai Hajira Women’s College, Melapalayam, Tirunelveli, on 30.06.2020
25. Webinar on “EFFECTIVE VIRTUAL Classroom Teaching for Teachers” at Sri Sairam Engineering College on 19.06.2020
26. Webinar on “Differential Equations and its Applications” at Kongunadu Arts and Science College COIMBATORE on 08.06.2020
27. Webinar on “Fuzzy Mathematics in Various Research Fields” at Hindusthan College of Engineering and Technology, Coimbatore on 13.06.2020
28. Five days Webinar on “One week National Level Online Short Time Training Program on MATLAB for ALL” at SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY on 04.06.2020 - 08.06.2020
29. Webinar on “MATHEMATICS A KEY TECHNOLOGY” at KINGS COLLEGE OF ENGINEERING on 29.05.2020
30. Webinar on “Research Advances in Graph THEORY” at JUSTICE BASHEER AHMED SAYEED COLLEGE FOR WOMEN on 28.05.2020
31. Webinar on “Financial Crisis - A Lagging Indicator of Structural Changes in Savings and Choice of Investment Avenues Amongst Individuals” at SRM ARTS AND SCIENCE COLLEGE on 08.06.2020
32. Webinar on “An insight to Chemical Graph Theory and its Applications” at SRI KANYAKA PARAMESWARI ARTS & SCIENCE on 10.06.2020
33. NATIONAL WEBINAR ON “ESSENTIAL MATHEMATICS FOR MACHINE LEARNING” at GURU

NANAK college, VELACHERY, on 03.08.2021

34. NATIONAL WEBINAR ON “GRAPH LABELING AND COLORING TOOLS” at GURU NANAK college, VELACHERY, on 31.07.2021
35. NATIONAL WEBINAR ON "APPLICATION OF LINEAR TRANSFORMATION IN COMPUTER GRAPHICS" at GURU NANAK college, VELACHERY, on 29.07.2021
36. Webinar on “Research publications projects and patents” at Saveetha engineering college, on 10.07.2021
37. Webinar on “INVERSE PROBLEMS RELATED TO CERTAIN GRAPH PARAMETERS” at GURU NANAK college, VELACHERY, on 19.08.2021