



BIO-DATA

1. **Name** : Dr. R. MURALI
2. **Date of birth** : 02-09-1968
3. **Father's Name** : T.H. RAGHAVENDRAN
4. **Designation** : Professor, Department of Mathematics,
Dean (First Year) at Dr. Ambedkar
Institute of Technology, Bengaluru
5. **Address** : **OFFICE:**
Department of Mathematics,
Dr. Ambedkar Institute of Technology,
Near Jnana Bharathi Campus,
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RESIDENCE:
514-C, 12th 'A' Main, II Phase,
Yelahanka New Town,
Bengaluru-560 064
E-mail:
muralir2968@gmail.com
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Official mail:
muralir2968.mat@drait.edu.in

6. Academic Performance :

Degree	University	Subject	Year of Passing
B.Sc.	Bengaluru	Physics, Chemistry, Mathematics	1988 (First Class)
M.Sc.	Bengaluru	Mathematics	1990 (First Class)
Ph.D.	Bengaluru	Graph Theory	1999 (Awarded)

7. Specialization :

1. Homological Algebra
2. Lie Groups
3. Graph Theory

8. Title of the Ph.D. Thesis : **“ON A SUBCLASS OF HAMILTONIAN GRAPHS”**

9. Teaching experience : 35 Years

10. Research Experience : 30 Years

11. Current position :

1. Professor of Mathematics since 15-10-2009
2. NSS Officer, Dr. Ambedkar Institute of Technology since August 2013
(Website: www.drait.edu.in)

11. Research Activities : Recognized as a guide in VTU (Belagavi), MGR University (Chennai)

M.Phil. Degree awarded for **TWO** students under my guidance.

12. Others :

- 1) Worked as Coordinator and Assistant Controller of Examinations, Dr. Ambedkar Institute of Technology, Bengaluru
- 2) BOS/BOE Member, Dr. Ambedkar Institute of Technology and BOE/BOS Member for PES Mandya, BMSCE, SIT Tumkur, Reva University, Nitte Meenakshi Institute of Technology, Bangalore University and Institute of Engineering and Technology, Ayodhya. BOS VTU Nominee for BMSIT, SJGIT.
- 3) Reviewer in International Journals

4) Training and Placement Officer at Dr. Ambedkar Institute of Technology from 08-12-2021 to 17-09-2025.

13. ORCID ID: 0000-0002-7175-2774

SCOPUS AUTHOR ID: 57197642425

WEB OF SCIENCE RESEARCHERID: ABG-4514-2020

RESEARCHID: rid132600

14. VTU Faculty ID : 1DAMAT0016738

List of Research Students (Guide and Co-Guide)

VTU (Visvesvaraya Technological University, Belagavi, Karnataka):

LIST OF STUDENTS AWARDED

Sl. No.	Name of the Research Student	University	Date/Year of Registration	USN	Title of Research work	Guide/Co-guide	Status
1	S.N. Thimmaraju	VTU	31 st March 2003	1DA03PGM04	On Hamiltonian and Hamiltonian Laceable Graphs with emphasis to computer Networks	Guide	Ph.D. Degree Awarded (2010) PDC: 20-05-2010 CONVOCATION: 18-04-2011
2	Leena.N.Shenoy	VTU	27 th April 2006	1DA06PGM01	Gray Codes and Hamiltonian Laceability	Guide	Ph.D. Degree Awarded (2012) PDC: 08-04-2012 CONVOCATION: 31-01-2012

3	Girisha.A	VTU	1 st May 2009	1DA09PGM02	A study of Hamiltonian Laceability in Graphs	Guide	Ph.D. Degree Awarded (2014) PDC: 02-08-2014 CONVOCATION: 09-05-2015
4	Venkatesh	VTU	1 st August 2008	1IS08PEM02	Design and Performance Evaluation of Routing Protocols for Generic Architecture for vehicular Ad hoc networks	Co-Guide	Ph.D. Degree awarded (2015) PDC: --- CONVOCATION: 09-05-2015
5	Kamal Kumar.M	VTU	1 st November 2009 Change of Guide approved – August 2014	1DA09PGN05	Study on Different Parameters of Domination Theory in Graphs	Guide	Ph.D. Degree Awarded (2016) PDC: 02-04-2016 CONVOCATION: 27-05-2016
6	Manjunath.G	VTU	17 th December 2009	1DA09PGN01	On a class k2of Hamiltonian Graphs	Guide	Ph.D. Degree Awarded (2016) PDC: --- CONVOCATION: 27-05-2016

7	Srinivasa Rao.K	VTU	1 st November 2009 Change of Guide approved – May 2014	1DA09PGN04	Some contributions to the study of Graph Coloring and Critical Graphs	Guide	Ph.D. Degree Awarded (2016) PDC: 28- 06-2017 CONVOC ATION: 09-01- 2018
8	Annapoorna.M.S	VTU	15 th November 2010	1DA10PGN01	A study of distance and laceability in Graphs	Guide	Ph.D. Degree Awarded (2018) PDC: 13- 07-2018 CONVOC ATION: 18-03- 2019
9	Vijay Chandra Kumar.U	VTU	22 nd October 2013 Change of Guide approved – Oct 2015	1DA13PGN02	An Elucidative Study on Domination Theory and its Parameters	Guide	Ph.D. Degree Awarded (2019) PDC: --- CONVOC ATION: 18-03- 2019
10	P.Gomathi	VTU	23 rd February 2012	1DA11PGN03	Some contributions to the theory of Hamiltonian laceable graphs and applications to computer Networks	Guide	Ph.D. Degree Awarded (2020) PDC: --- CONVOC ATION: 08-02- 2020

11	R.A. Daisy Singh	VTU	7 th December 2011	1DA11PGN01	Hamiltonicity and Hamiltonian Traceability in Graph structures	Guide	Ph.D. Degree Awarded (2020) PDC: --- CONVOCATION: 08-02-2020
12	Kulkarni Sunita Jagannatharao	VTU	3 rd November 2015	1DA16PGJ04	A Study on Rainbow Coloring in Graphs	Guide	Ph.D. Degree Awarded (2020) PDC: --- CONVOCATION: 08-02-2020
13	Chidananda Murthy. K	VTU	12 th December 2014	1DA15PEJ04	Generation of Chaotic Binary Sequences for Cryptographic applications	Co-Guide	Ph.D. Degree Awarded (2021) PDC: 05-08-2021 CONVOCATION: 10-03-2022-
14	Gayathri. A	VTU	May 2019	1DA19PMA01	Some contributions to the study of Rainbow coloring in graphs	Guide	Ph.D. Degree Awarded (2026) PDC: --- CONVOCATION: 02-02-2026
15	Seema H R	VTU	13 th February 2017	1DA17PGA02	A Study of Combinatorial Properties in Graphs	Guide	Final Viva-Voce conducted on 9th October 2026

LIST OF STUDENTS PURSUING Ph.D.

Sl. No.	Name of the Research Student	University	Date/Year of Registration	USN	Title of Research work	Guide/Co-guide	Status
1	Suresha. K	VTU	25 th Oct 2016 Change of Guide approved – Oct 2021	1GA17PGA03	A Study on some coloring problems in graphs	Guide	Comprehensive viva-voce completed
2	Chaitra. A.C	VTU	Guide	1DA20PMA01	A Study on graph coloring and its applications	Guide	Thesis Submission Stage
3	Priyanka. B	VTU	Guide	1DA20PMA02	A Study on some graph coloring problems	Guide	Course work stage

Non-VTU:

Sl. No.	Name of the Research Student	University	Year of Registration	USN	Title of Research work	Guide/Co-guide	Status
1	Ramesh.S	MGR	May 2005	ECE04D007	Study of Linear complexity and randomness properties of binary sequences derived from matrix recurrence relation defined over Z_4 , their implementation and applications in Cryptography	Co-Guide	Ph.D. Degree Awarded (2013) April 2013

2	Mahalinga.V. Mandi	MGR	May 2005	ECE04D004	Linear Complexity and cross correlation properties of random binary sequences derived from discrete chaotic sequences and their application in multiple access communication	Co-Guide	Ph.D. Degree Awarded (2013) July 2013
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SHORT TERM COURSES/FACULTY DEVELOPMENT PROGRAMMES

ATTENDED:

1995

1. ISTE-CEP Short term course on “Computer Programming in Fortran 77” from May 3rd-31st, 1995 at Dr. Ambedkar Institute of Technology, Bengaluru.
2. ISTE Summer school on “Recent developments and Advances in Database systems” from June 5th-17th, 1995 at KREC Surathkal.
3. AICTE-CEP Short term course on “Oracle 7 RDBMS” from Oct 9th-Nov 8th, 1995 at Dr. Ambedkar Institute of Technology, Bengaluru.
4. AICTE-CEP Short term course on “Computer Application to some Civil engineering problems” from Nov 20th-25th, 1995 at Dr. Ambedkar Institute of Technology, Bengaluru.

1996

5. UGC Refresher course in Mathematics from May 20th-June 14th, 1996 at the Department of studies in Mathematics, Bengaluru University, Bengaluru.

1998

6. AICTE-CEP Short term course on “Advances in Flow measurements and computational methods” from Nov 25th-30th, 1998 at Dr. Ambedkar Institute of Technology, Bengaluru.
7. AICTE-CEP Short term course on “Computer aided design using drafting software” from Dec 14th-19th, 1998 at Dr. Ambedkar Institute of Technology, Bengaluru.

1999

8. AICTE-CEP Short term course on “Advances in computer applications in engineering” from May 22nd-28th, 1999 at Dr. Ambedkar Institute of Technology, Bengaluru.
9. SHORT term training programme on “Modern computational mathematical techniques to analyse random response data” from Aug 16th-28th, 1999 at SJCIT, Chickballapur.
10. AICTE-CEP Short term course on “Internet and its applications in engineering” from Oct 12th-18th, 1999 at Dr. Ambedkar Institute of Technology, Bengaluru.

2000

11. AICTE-CEP Short term course on “Advanced internet programming” from June 12th-23rd, 2000 at Dr. Ambedkar Institute of Technology, Bengaluru.

2002

12. ISTE Short term course on “C++” from June 3rd-17th, 2002 at Dr. Ambedkar Institute of Technology, Bengaluru.
13. ISTE Short term course on “Lasers and applications of lasers” from June 18th-July 1st, 2002 at Dr. Ambedkar Institute of Technology, Bengaluru.

2003

14. ISTE Short term course on “Perspectives, trends and prospects in TQM and ISO in the context of global competition” from March 17th-29th, 2003 at Dr. Ambedkar Institute of Technology, Bengaluru.
15. ISTE Short term course on “Nanotechnology” from May 5th-9th, 2003 at Dr. Ambedkar Institute of Technology, Bengaluru.

2011

16. Attended in 2 days Workshop on Recent Trends and Research Orientation on Image Processing organized by the Department of Information Science and Engineering, Dr. AIT, during October 14th-15th 2011, Bengaluru.

2012

17. Participated in the International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-2012) held at PES College of Engineering during Dec 21st-22nd, 2012, Mandya.

2013

18. Participated in the One Day Seminar on Research Challenges in Wireless Networks and Applications organized by Dept. of Telecommunication Engineering, Dr. AIT on Feb 22nd, 2013, Bengaluru.

19. Participated in Five days Faculty Development Programme on Design of Experiments under TEQIP-II organized by the Dept. of Industrial Engineering and Management, Dr. AIT during April 02nd-06th, 2013, Bengaluru.
20. Participated in the Two day National Workshop on Mathematical Modelling using MATLAB (MMM-2013) organized by the Dept. of Mathematics, B.S.Abdur Rahman University during Apr 25th-26th, 2013, Chennai.
21. Participated in the Two day workshop on Image Processing using PYTHON under TEQIP-II organized by the Dept. of Electronics and Communication Engineering, Dr. AIT during August 13th-14th, 2013, Bengaluru.
22. Participated in Five day workshop on Design and Modeling of Drives for Electric Machines in Association with Electrono Solutions Pvt. Ltd., Bengaluru under TEQIP-II organized by the Dept. of Electrical and Electronics Engineering, Dr. AIT during September 26th to October 1st, 2013, Bengaluru.
23. Participated in the Two Day Workshop on Free and Open Source software for day to day computing organized by the Department of MCA, Dr. Ambedkar Institute of Technology, Bengaluru during 25th to 26th October 2013.

2014

24. Participated in the Third National Symposium on Rotor Dynamics (NSRD-2014) organized by the Department of Mechanical Engineering, Dr. Ambedkar Institute of Technology, Bengaluru during 12th to 14th February 2014, Bengaluru.
25. Participated in the Two weeks workshop on Recent Advances in Power Electronics and its Applications organized by the Department of Electronics and Communication, Dr. Ambedkar Institute of Technology, Bengaluru during 17th February to 1st March, 2014.
26. Participated in the One Day Workshop on Advanced Technologies in VLSI Design and Telecommunication as a **Resource Person** organized by the Department of Electronics and Communication, Vijaya Vittala Institute of Technology, Bengaluru on 21st March, 2014.
27. Participated in the Two Day National Workshop on Mathematical Softwares' for Computer applications (MSCA-2014) organized by the Departments of CSE and Mathematics, Dr. Ambedkar Institute of Technology, Bengaluru during 28th to 29th April 2014.
28. Participated in the Two Day Workshop on Advanced Polymer Processing Technology conducted by the Department of Mechanical Engineering and Vijay

Zaveri Centre for Composites, Dr. Ambedkar Institute of Technology, Bengaluru during 6th to 7th May 2014.

29. Participated in the Five Days FDP on Emerging Paradigm in Project Management jointly organized by the Department of Industrial Engineering and Management, RV College of Engineering and Project Management Institute (PMI), Bengaluru during 4th to 8th August 2014.

2015

30. Participated in the Three Days FDP on Development of Simulation models for effective decision making – a practical approach conducted by the Department of Industrial Engineering and Management, MSRIT, Bengaluru during 14th to 16th July 2015.
31. Participated in the Two Days Workshop on Hands-on-Training in QUALNET organized by the Department of Telecommunication Engineering, Dr. Ambedkar Institute of Technology, Bengaluru during 22nd to 23rd September 2015 under TEQIP II.

2016

32. Participated in the Two Days Workshop on VLSI and Embedded Systems organized by the Department of Electronics and Communication Engineering, Dr. Ambedkar Institute of Technology, Bengaluru during 28th to 29th April 2016 under TEQIP II.
33. Participated in the Two weeks FDP on Design and Development of Embedded systems for Industrial applications organized by the Department of Instrumentation Technology, Dr. Ambedkar Institute of Technology, and Bengaluru during 22nd August to 3rd September 2016 under TEQIP II.

2017

34. Participated in one week faculty development program on Recent advances in Materials processing, characterization and applications organized by the Department of IEM and Mechanical Engineering, Dr. Ambedkar Institute of Technology, Bengaluru during 20th to 24th March 2017.

2018

35. Participated in one day faculty development program on Latest Research trends in IT industry organized by the Department of ISE, Dr. Ambedkar Institute of Technology, Bengaluru and TCS on 10th February 2018.
36. Participated in one day workshop on Computer Integrated Manufacturing organized by the Department of Mechanical Engineering, Dr. Ambedkar Institute of Technology, Bengaluru on 23rd March 2018 under TEQIP III.
37. Participated in one day workshop Smart Materials and Structures organized by the Department of Mechanical Engineering, Dr. Ambedkar Institute of Technology, Bengaluru on 27th March 2018 under TEQIP III.

38. Participated in one week faculty development program on Recent Advances in Internal Combustion Engines (RAICE-2018) organized by the Department of Mechanical Engineering, Dr. Ambedkar Institute of Technology, Bengaluru during 2nd to 7th April 2018 under TEQIP III.
39. Participated in one week faculty development program on Emerging Trends in Project Management organized by the Department of IEM, Dr. Ambedkar Institute of Technology, Bengaluru during 9th to 13th April 2018 under TEQIP III.
40. Participated in one week workshop on Data Analytics using R organized by the Department of Information Science and Engineering, Dr. Ambedkar Institute of Technology, Bengaluru during 16th to 21st April 2018 under TEQIP III.
41. Participated in the one day workshop on New model curriculum for first year BE/BTech-CBCS detailed syllabus (2018-19) as per Outcome Based Education (OBE) format including Course Outcomes (CO) and Bloom's Taxonomy under TEQIP at Bangalore Institute of Technology on 07th May 2018.
42. Participated in the one week FDP on Advances in Signal Processing and Robotics organized by the Department of Electronics and Communication Engineering, Dr. Ambedkar Institute of Technology, Bengaluru during 27th August 2018 to 1st September 2018.
43. Participated in three days FDP on Remote learning and MOOC and SCILAB organized by Dr. Ambedkar Institute of Technology TEQIP and Institute of Engineering and Technology, Dr. RML Avadh University, Faizabad during 03rd to 05th October 2018 under TEQIP III.
44. Participated in the two day workshop on Awareness on SAR filling for NBA Accreditation organized by the Department of Mechanical Engineering, Dr. Ambedkar Institute of Technology, Bengaluru during 22nd and 23rd October 2018 under TEQIP III.
45. Participated in the one day workshop on Advanced Materials and Applications organized by the Department of Chemistry, Dr. Ambedkar Institute of Technology, Bengaluru on 14th November 2018 under TEQIP III.
46. Participated in the one day National Symposium on The Internationalization of Higher Education: A Paradigm Shift organized by IQAC of Dr. Ambedkar Institute of Technology, Bengaluru on 18th December 2018 under TEQIP III.

2019

47. Attended NAAC sponsored seminar on Emerging Trends in Quality Education: A Road Map organized by IQAC of Dr. Ambedkar Institute of Technology, Bengaluru during 15th and 16th February 2019.
48. Participated in the one week FDP on Industry 4.0-It's impact on Education organized by the Department of Industrial Engineering and Management, Dr. Ambedkar Institute of Technology, Bengaluru during 18th to 22nd March, 2019 under TEQIP III.

49. Participated in the one day NDLI (National Digital Library of India) club-Karnataka State Workshop for Educational Institutions organized by MHRD, NDLI and Bangalore University Library on Friday, 14th June 2019.
50. Attended workshop on Child Protection Issues for Coordinators/Officers of National Service Scheme conducted by the National Institute of Public Cooperation and Child Development, Ministry of Women and Child Development, Government of India. Southern Regional Centre, Bengaluru during 11th to 13th September 2019.

2020 (Pandemic Year-Webinars, FDPs etc.)

51. Participated in the two days National Seminar on Significant role of E-education through social distancing during lockdown of Covid-19 Pandemic organized by Institute of Engineering and Technology, Dr. Rammanohar Lohia Avadh University, Ayodhya, Dr. AIT, Bangalore and SPIU, Uttar Pradesh during 8th to 9th April 2020.
52. Participated in the National Webinar on Unlocking the lockdown through E-examination, organized by Dr. Rammanohar Lohia Avadh University, Ayodhya and State Project Implementation Unit, Uttar Pradesh on 20th April 2020.
53. Participated in the two week course on Digital Transformation in Teaching Learning Process during 6th to 22nd April 2020. Course offered by IIT, Bombay, under TEQIP 3, NPIU, SWAYAM.
54. Participated in one week National FDP and Online Training on Scilab jointly organized by Rajarshi Shahu Mahavidyalaya (Autonomous), Latur and Spoken Tutorial Project IIT, Bombay during 1st to 7th May 2020.
55. Participated in four days online FDP on Research, Funding projects and IPR jointly organized by IQAC, R & D Cell & Department of Electronics and Telecommunication under the banner if IETE and IIC of K.C. College of Engineering and Management Studies and Research, Thane, Maharashtra during 7th to 10th May 2020.
56. Participated in one day Webinar on Graphs in Life, organized by the Department of Mathematics, Don Bosco College of Arts and Science, Keela Erul, Thoothukudi on 29th May 2020.
57. Participated in Webinar on Virtual Lab organized by FET, MJP, Rohilkhand University on 6th June 2020.
58. Participated in Webinar on Advances in IOT and its Applications, organized by the Department of Electronics and Communication, Dr. Ambedkar Institute of Technology, Bangalore on 10th June 2020.
59. Participated in the online Aptitude Quiz conducted by the Department of Electrical and Electronics Engineering, Proudharadevaraya Institute of Technology, Hosapete on 15th June 2020.

60. Participated in the webinar cum workshop on Performing and Designing experiments on virtual platform, conducted by MJP Rohilkand University, Bareilly in association with IIT Rourkee, during 8th to 17th June 2020.
61. Participated in the online National level Quiz on Mathematics with Engineering applications conducted by the Department Mathematics, MVIT, Bangalore on 18th June 2020.
62. Participated in the national level webinar Lab-on-a-chip based sensor organized by the PG and Research Department of Chemistry, Government Arts College, Salem on 21st June 2020.
63. Participated in Webinar on LiDar for Autonomous vehicles organized by Department of R & D, DBIT, Bangalore on 25th June 2020.
64. Participated in the Webinar on Lets talk Blockchain organized by the Department of Computer Science and Engineering, Dr. Ambedkar Institute of Technology, Bangalore on 26th June 2020.
65. Participated in the Webinar on Applied Cryptography for IOT organized by the Department of Computer Science and Engineering, Dr. Ambedkar Institute of Technology, Bangalore on 27th June 2020.
66. Participated in the Webinar on Artificial Intelligence-Opportunities and challenges organized by the Department of Computer Science and Engineering, Dr. Ambedkar Institute of Technology, Bangalore on 3rd July 2020.
67. Participated in the Webinar on RF Front End Design for X-Band Radar organized by the Department of E and C, DBIT, Bangalore on 7th July 2020.
68. Participated in the Webinar on Space Technologies and Applications organized by the Department of Computer Science and Engineering, Dr. Ambedkar Institute of Technology, Bangalore on 8th July 2020.
69. Participated in the Webinar on How to write Research Papers and Publish in International Journals organized by the Departments of MBA and IEM, Dr. Ambedkar Institute of Technology, Bangalore on 9th July 2020.
70. Participated in the five days FDP on E-Content creation for MOOCs and MOODLE hosted by Institute of Engineering and Technology, Dr. RML Avadh University, Ayodhya in association with IIT-Bombay Spoken Tutorial during 10th to 14th July 2020.
71. Participated in the Webinar on Block Chain and its Application organized by the Department of Computer Science and Engineering, Dr. Ambedkar Institute of Technology, Bangalore on 14th July 2020.
72. Participated in the Webinar on Employability Skills for the future organized by the Department of BCA, KLE Society's Degree College, Nagarabhavi, Bangalore on 21st July 2020.

73. Participated in the Webinar on Typical Construction Practices organized by the Department of Civil Engineering, Vemana Institute of Technology, Bangalore 21st July 2020.
74. Participated in the Webinar on Competitive strategies for business sustainability organized by the Department of MBA, Dr. Ambedkar Institute of Technology, Bangalore on 22nd July 2020.
75. Participated in the Webinar on Role of IoT and Big Data Analytics in Industry 4.0 organized by the Department of BCA, KLE Society's Degree College, Nagarabhavi, Bangalore on 23rd July 2020.
76. Participated in the national level E-Quiz on Nutrients: Vitamins and Minerals organized by Science and Technology Club, Dr. Ambedkar Institute of Technology, Bangalore during 10th to 12th August 2020.
77. Participated in the one week FDP on Emerging trends and applications of artificial intelligence organized by the Department of Information Science and Engineering, Dr. Ambedkar Institute of Technology, Bangalore during 10th to 14th August 2020.
78. Participated in the Webinar on Moments of Insight and Revelation for Topological Indices organized by the Department of Mathematics, Don Bosco Institute of Technology, Bangalore on 28th August 2020.
79. Participated in the Webinar on Fourier Series, Fourier Transforms and Wavelets organized by the Department of Mathematics, Dr. Ambedkar Institute of Technology, Bangalore on 10th September 2020.
80. Participated in the Webinar on Domination energy in graphs organized by the Department of Mathematics, Dr. Ambedkar Institute of Technology, Bangalore on 11th September 2020.
81. Participated in the national level Mathematics Webinar Series organized by the Department of Mathematics, Mangalore University during 09-12 September 2020.
82. Participated in the Webinar on A Global Climate modeling organized by the Department of Mathematics, Dr. Ambedkar Institute of Technology, Bangalore on 22nd September 2020.
83. Participated in the Webinar on Mathematics and Mechanics of Elastic bodies described by novel constitutive relations: A tale of stories organized by the Department of Mathematics, Dr. Ambedkar Institute of Technology in association with Institute of Engineering and Technology, Dr. Rammanohar Lohia Avadh University, Ayodhya on 28th September 2020.

2021 (Pandemic Year-Webinars, FDPs etc.)

84. Participated in the online FDP on Research funding projects and IPR organized by R&D Cell, IQAC and Department of EXTC, Computers and IT, Thane during 7th to 9th June 2021.

85. Participated in the Webinar on Challenges and Opportunities in Higher Education beyond COVID 19 organized by Dr. Ambedkar Institute of Technology on 27th June 2021.
86. Participated in the Webinar on Operations Research and its Applications organized by the Department of Management Studies, The Oxford College of Engineering, Bangalore on 30th June 2021.
87. Participated in the one-week short term training program on Control System analysis and Design with MATLAB organized by NITTR, Kolkata during 9th to 13th August 2021.

CONFERENCES ATTENDED AND PAPERS PRESENTED:

1. National workshop on Graph theory and its applications, organized by the Department of Mathematics, Manonmanian Sundaranar University, Tirunelveli from Feb 21-27, 1996. Title of the paper presented "ON THE ADJACENCY MATRIX OF A CAYLEY GRAPH OF THE ELEMENTARY 2 GROUP".
2. XI Annual conference of the Ramanujan Mathematical society, organized by the Department of Mathematics and computer applications, Maulana Azad college of technology, Bhopal from June 26-28, 1996. Title of the paper presented "ON A NEW CLASS OF CUTPOINT GRAPHS".
3. Conference on Graph theory and applications, organized by the department of Mathematics, University of Mumbai from April 23-26, 1997. Title of the paper presented "ON BRICK PRODUCTS OF DISTANCE GRAPHS".
4. 12th Annual conference of the Ramanujan Mathematical society organized by JNN college of engineering, Shimoga from May 22-24, 1997. Title of the paper presented "ON n^* -LACEABLE GRAPHS".
5. National seminar on combinatorial mathematics and its applications, organized by the Department of Mathematics, Karnatak University, Belagavi campus from Sep 25-27, 1997. Title of the paper presented "DECOMPOSITION INTO HAMILTONIAN 2 LACEABLE PATHS OF EDGE DELETED COMPLETE GRAPHS".
6. National seminar on combinatorial mathematics and its applications, organized by the Department of Mathematics, Karnatak University, Belagavi campus from Sep 25-27, 1997. Title of the paper presented "DECOMPOSITION INTO HAMILTONIAN CYCLES OF THE RESTRICTED CARTESIAN PRODUCT OF COMPLETE GRAPHS AND A PATH OF EVEN ORDER".
7. Conference on Graph connections, organized by the Department of Mathematics, Cochin University of science and technology (CUSAT), Cochin from Jan 28-31, 1998. Title of the paper presented "DISTANCE LACEABLE GRAPHS".
8. 13th Annual conference of the Ramanujan Mathematical society organized by the Department of Mathematics, Manonmanian Sundaranar University, Tirunelveli from June 4-6, 1998. Title of the paper presented "DECOMPOSITION INTO HAMILTONIAN 2 LACEABLE PATHS OF EDGE DELETED COMPLETE GRAPHS OF ODD ORDER".

9. 14th Annual conference of the Ramanujan Mathematical society organized by the Department of Mathematics, Indian Institute of science, Bengaluru from June 7-9, 1999.
10. National conference on Discrete mathematics and its applications, organized by the Department of Mathematics, Manonmanian Sundaranar University, Tirunelveli from Jan 5-7, 2000. Title of the paper presented “DECOMPOSITIONS OF $K_{2n}-2K_2$ ”.
11. National conference on Discrete mathematics and its applications, organized by the Department of Mathematics, Manonmanian Sundaranar University, Tirunelveli from Jan 5-7, 2000. Title of the paper presented “DISTANCE AND DISTANCE LACEABLE GRAPHS”.
12. 19th International conference of the Jangjeon Mathematical society, organized by the Department of Mathematics, Bengaluru University, Bengaluru from Feb 22-24, 2007. Title of the paper presented “BRICK PRODUCTS AND HAMILTONIAN LACEABILITY”.
13. 19th International conference of the Jangjeon Mathematical society, organized by the Department of Mathematics, Bengaluru University, Bengaluru from Feb 22-24, 2007. Title of the paper presented “DISTANCE LACEABLE GRAPHS”.
14. First National Conference on Computational Control Systems and Optimization (CCSO 2011), Dr. Ambedkar Institute of Technology, May 12 – 13, 2011. Title of the paper presented “HAMILTONIAN LACEABILITY AND BRICK PRODUCTS”.
15. First National Conference on Computational Control Systems and Optimization (CCSO 2011), Dr. Ambedkar Institute of Technology, May 12 – 13, 2011. Title of the paper presented “LACEABILITY IN DISTANCE GRAPHS”.
16. 6th International Conference on Chaotic Modeling and Simulation (CHAOS 2013), Yeditepe University, Istanbul, Turkey, June 11-14 2013. Title of the paper presented “LACEABILITY IN THE BRICK PRODUCT OF CYCLES”
17. 2nd National Conference on Recent Trends in Computer Science and Information Technology (NCRTCSIT), SJCT Institute of Technology, April 21-22 2016. Title of the paper presented “RAINBOW CONNECTION NUMBER OF SOME CLASSES OF GRAPHS”
18. International Conference on Development of Smart cities: Interface, Governance and Technology, Dr. Ambedkar Institute of Technology, Bengaluru, September 9-10, 2016. Title of the paper presented “SMART CITIES AND VEHICULAR ADHOC NETWORKS”.
19. Participated in the National Conference on Recent Trends in Science, Engineering and Management, Dr. Ambedkar Institute of Technology, Bengaluru, June 07-08, 2019. Title of the paper contributed “Interleaver graph of brick product graph $C(2n+1,1,r)$ and hamiltonian connectedness”.

20. Participated in the 2nd International Conference on Global Advancement of Mathematics (GAM-2019), Acharya Institute of Graduate Studies, Bengaluru, June 25-26 2019 (Member of Scientific Committee, Key Note Address, Session Chair).
21. Participated in the International Conference on New Trends in Mathematical Modelling with Applications (ICNTMMA 2019) organized by PG and Research Department of Mathematics, Sri Vidya Mandir Arts and Science College, Uthangarai during July 29-30, 2019 (Invited talk and Session chair).
22. Participated in the International Virtual Conference on Mathematical Modelling and Numerical Solution of Air Pollution Problems (ICMMN2021) organized by the Department of Mathematics, Government Arts and Science College, Hosur on 23rd August 2021.
23. NKCon-2022 Flagship International Conference of IEEE North Karnataka Subsection in association with IEEE Bangalore section and IEEE ITS hosted by BLDEA's V.P Dr. Halakatti College of Engineering and Technology, Vijayapur, Karnataka India during 20th and 21st November 2022. Title of the paper presented "Exponential Domination of some chemical structures in reduced (a,b)-KA Indices".

PUBLICATIONS (National/International Journals)

1. **Hamiltonian n * laceable graphs**, with K.S. Harinath, Far East Journal of Applied Mathematics, 3(1), 1999, pp. 69-84 (ISSN: 0972-0960)-International Journal.
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6. **Generation of Sequence of Random numbers defined over Z_4 and their correlation properties**, with Ramesh. S, K.N. Haribhat, Proceedings of IEEE International conference on communication Technology 2006 (IEEE-ICCT 2006), Vol. 1, pp. 229-232 (**International Conference**).
7. **Generation of Binary Sequences derived from Chaotic Sequences over Z_4 using Polynomial Mapping and their cross correlation and Linear complexity properties**, with Mahalinga V. Mandi, K.N. Haribhat, Proceedings of National Conference ECEAADD10, 2010, 6th and 7th October, Chennai (**National Conference**).
8. **Vanet based Railway Emergency response system**, with Venkatesh and Indra. A, **Accepted for Poster Presentation**, 2012, 55th IETE Annual Technical Convention and IETE Expo 2012-28th to 30th September 2012.
9. **Laceability in the Brick Product of Cycles**, with Shivaputra and Chetan.S, Proceedings of the 6th International Conference on Chaotic Modeling and Simulation, CHAOS 2013, Yeditepe University, Istanbul, Turkey, June 2013, pp. 419-427 (**International Conference**).
10. **Deriving Binary Sequences from Chaotic Sequences having Good Cross Correlation Properties** with Mahalinga V. Mandi and K. N. Haribhat, IEEE International Conference on Machine Intelligence Research and Advancement (ICMIRA), IEEE Computer Society, 21st – 23rd Dec' 2013, Mata Vaishnodevi University, Katra, India, DOI 10.1109/ICMIRA.2013.13, pp. 29-36 (**International Conference**).
11. **Strongly-k-ordered-t*-connected graphs**, with Annapoorna.M.S, Proceedings of the Third National Conference on Wireless Control and Communication Technologies (NCWCT-2015), 27th-28th April 2015, pp. 45-48 (ISBN: 9788192710471) (**National Conference**).
12. **Hamiltonian Laceability in Line graphs**, with Manjunath.G and Chidanandan.V, National Conference on Scientific, Computational and Information Research Trends in Engineering (NCSCI-2016), Mysuru, 30th January 2016, pp. 14-20 (**National Conference**).
13. **Embedding Index in Grid Graphs**, with M.Kamal Kumar and S.K.Rajendra, National Conference on Scientific, Computational and Information Research Trends in Engineering (NCSCI-2016), Mysuru, 30th January 2016, pp. 01-06 (**National Conference**).

PATENT:

Published patent on 03-09-2021 titled Products/Services based on MCDSN using SQL server, Official Journal of The Patent Office, Issue No. 36/2021, Friday, 3rd Sept 2021.

INVITED TALKS/LECTURE:

1. A talk titled “**Hamiltonian Laceability in Graphs**”, on 15th Feb 2018 at the International Conference on Current Scenario in Pure and Applied Mathematics held during 14th to 16th Feb 2018 at Kongunadu Arts and Science College, Coimbatore
2. A talk titled “**Mathematical Applications in Chemistry**”, on 24th Feb 2018 at Acharya Institute of Graduate Studies, Bengaluru
3. A talk titled “**Rainbow coloring**” on 24th January 2019 at Kongunadu Arts and Science College, Coimbatore
4. A talk titled “**On a subclass of hamiltonian graphs**”, on 25th January 2019 at Kongunadu Arts and Science College, Coimbatore
5. Keynote address on “**Graph Coloring**” at the Reva Research Conclave-2019 on 24th May 2019 at Reva University, Bengaluru.
6. A talk titled “**Coloring concepts in Graph Theory**”, on 3rd June 2019 at Institute of Engineering and Technology, Dr. Rammanohar Lohia Avadh University, Faizabad, Ayodhya (U.P).
7. A talk on “**Enumeration in Graphs**” on 25th June 2019 at the 2nd International Conference on Global Advancement of Mathematics (GAM-2019) held during 25th-26th June 2019 at Acharya Institute of Graduate Studies, Bengaluru.
8. A plenary talk on “**Coloring: Rainbow and Rainbow critical graphs**” at the International Conference on New Trends in Mathematical Modelling with Applications held during 29th-30th July 2019 at Sri Vidya Mandir Arts and Science College, Katteri, Uthangarai, Krishnagiri District, Tamilnadu.
9. A talk on “**Mathematical Modelling**” at CMR Institute of Technology, Bengaluru on Thursday, 14th November 2019.
10. A talk on “**Graph Coloring**” on 20th December 2019 at the National Conference on recent trends in Mathematics and its applications held during 20th-21st December 2019 at Gitam University, Bengaluru.
11. A talk on “**Research in Mathematics-The way ahead**” on 16th July 2020 (ONLINE LECTURE) as part of the 5-Day FDP programme on “Role of Mathematics in Academic Research and Technology” organized by the Department of Mathematics, Vemana Institute of Technology, Bengaluru.
12. Delivered a talk as resource person on the topic “**Some interesting problems in graph theory**” on 21st June 2021 in the five days national level FDP on Emerging Trends in Mathematics organized by the Department of AS&H (Mathematics), Tirumala Engineering College, Narasaraopet, Guntur District, Andhra Pradesh during 17th to 21st June 2021.

13. Delivered a talk on **“Graph Theory Application to Management”** at VTU PG Center, Mysuru for MBA students on 3rd September 2024.
14. Delivered a talk on **“Coloring and domination in graphs”** at SVCE, Bangalore on 19th October 2024.
15. Delivered a talk on **“Recent Trends in Graph Theory”** at RR Institute of Technology, Bangalore on 25th January 2025.
16. Delivered a talk on **“The Practical applications of Graph Theory”** at Vemana Institute of Technology, Bangalore on 6th February 2025.
17. Resource person for Technical Seminar titled **“Application of Graph Theory for today’s Computer Technology”** at SVCE, Bangalore on 16th April 2025.
18. Participated and delivered a lecture at the Five-Day National level Faculty Development Program on **“Mathematical Foundations of Artificial Intelligence and Machine Learning”** held during July 28th to August 1st 2025 organized by the Department of Mathematics, Reva University, Bengaluru.
19. Delivered a lecture on the **“Latest trends in Domination in Graphs”** at School of Applied Sciences, Department of Mathematics, Reva University on 18th October 2025.
20. Delivered two lectures on **“Hamiltonian Laceability in Graphs”** and **“Coloring in Graphs”** at the Department of Studies in Mathematics, Manasa Gangotri, University of Mysore at the Two Days Seminar on Modern Perspectives of Graph Theory (RUSA-FDP) on 21st January 2026.

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