

**Name** : Dr. ManimekalaiS  
**Designation** : Associate Professor  
**Department** : Mathematics  
**Qualification** : M.Sc., MBA., M.Phil., Ph.D  
**Experience** : Teaching:15 Years 1 Months Industry: 3 Years  
**Area of Specialization(s)** : Graph Theory  
**Email (Official ID)** : manimekalai@drngpasc.ac.in



Research: 3

### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Mathematics	Nirmala College for Women Coimbatore	2021
M.Phil.	Mathematics	Alagappa University. Karaikudi	2005
MBA	HRM	Alagappa University	2011
M.Sc	Mathematics	Maharaja College of arts and Science Perundurai.	2004
B.Sc	Mathematics	LRG GovtCollege, Tirupur	2002

### Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Online Certification	Advanced Graph Theory	NPTEL	2018
Online Certification	Machine learning with Python	IBM	2020
Online Certification	Introduction to cloud	IBM	2020
Online Certification	Python 101 for Data Science	IBM	2020
Online	Blockchain essentials	IBM	2020

Certification			
Online course	Stress Management	AVS college of arts and science college, Salem	2020
Online course	Java	IIT Mumbai	2020
Online Course	Python	IIT Mumbai	2020
Online Course	LATEX	IIT Mumbai	2020
Online course	Online Teaching Methods	Farook Institute of Management Studies	2020
Certificate of completion	Applications of graph colouring and its algorithm	Infinity Education Solutions	2020
Certificate of appreciation	Social Awareness Campaign	Imperial college of Engineering and research, Pune	2020
Certificate of appreciation	Awareness Quiz	Vivekananda College, Madurai	2020
Certification	Leadership Talk	MHRD	2020
Certificate of appreciation	Yoga Asanas and its Concepts	TJS Engineering College	2020
Certificate of appreciation	E-Quiz 17 June	VidhyaMandhir Arts and Science College	2020
Certificate of appreciation	E-Quiz 17-19 June	Dr. N.G.P. Institute of technology	2020
One week Training	One week Training 27 <sup>th</sup> July -1 <sup>st</sup> Aug2020	AICTE Sagar Institute of research and	2020

		technology	
MOOC Online course	Inspiring and motivating individuals	University of Michigan Coursera	2020
MOOC Online course	Introduction to public speaking	University of Washington Coursera	2020
MOOC Online course	Introduction to Psychology	Yale University Coursera	2020
MOOC Online course	Qualitative research Methods	University of Amsterdam Coursera	2020
MOOC Online course	Introduction to Virtual reality	University of London Coursera	2020
The Guinness word record event	Most users to take computer programming lesson in 24 hours	GUVI, National Educational Alliance for Technology	24-25 Apr 2021
Certificate of appreciation	E-Quiz 17-19 June	Nirmala College for Women	30.05.2021
Certificate of appreciation	Ethic and Responsibilities of Peer Reviewer	Elsevier research Academy	Oct 2021
Certificate of appreciation	Building Trust and engagement in Peer Review	Elsevier research Academy	2021
Certificate of appreciation	How to build empathy in Research	Elsevier research Academy	2021

Certificate of appreciation	How to prepare proposal for review article	Elsevier research Academy	19.10.2021
Certificate of Completion	How to Manage and Publish your Research data	Elsevier research Academy	19.02.2022
Certificate of Completion	Basics of Python	Infosys Spring board	03.11.2022
Certificate of Completion	Expert Insights on Time Management	Infosys Spring board	09.11.2022
Certificate of Completion	Introduction to Data Science	Infosys Spring board	21.11.2022
Certificate of Completion	Data Structures & Algorithms in Python: Fundamental Data Structures	Infosys Spring board	22.11.2022
Course Completion	Spring MVC	Infosys Spring Board	19.01.23
Course Completion	Database Management system part I	Infosys Spring Board	19.01.23

### Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	-	-
M. Phil.	-	1

### Research Publications (Indexed)

#### International

1. Dr. Manimekalai, R.Ashwini, Amarendra Alluri S , Automated Short Term Load Prediction in Power Systems using Collision Bodies Optimization with MultiHead Deep Learning Model, **IEEE Xplore, Special issue, Jan 2023**, (WoS/Scopus/ESCI)
2. Dr. Manimekalai S, Dr.C.Sharanya , Ms. Saniya Bhalerao , Javangula vamsinath Mathematical Descriptors For Drug Design Using Python Program, **Journal of Pharmaceutical Negative Results**, Volume 13 , Issue 9, Dec 2022 (WoS/Scopus/ESCI)
3. Manimekalai.S. U.Mary, Molecular Descriptors of lattices **using python Program**, Jouranal of Fundamental and Comparative Research, Volume VII No 11(1), ISSN:2277 -7067, 2021
4. Dr. B.Leelavathi, Dr.Manimekalai.S. DR.D.Maheshwari, A recent study on **Molecular descriptors and deep learning perceptive in malware detection**, International Journal of multidisciplinary Educational research ,Volume 10(4),April 2021
5. Manimekalai.S. U.Mary, **Molecular descriptors of dodecagonal network with Python program and bounds based on new parameters for some topological indices**, American Institute of Physics Conference Proceedings ,Volume 2261(1), ISSN:1551-7616, Oct 2020(Web of Science/ISI/Scopus Indexed)
6. Manimekalai.S. U.Mary, **Computation of Eccentricity associated topological descriptors through Python for Comb tree**, International Journal of Physics Conference Series ,Volume 1597, ISSN:1742-6596(012019) ,Page:1-9, Aug 2020(ISI/Scopus Indexed)
7. *ManimekalaiS, Mary U*, **On some neighbourhood eccentricity sum based indices**, NOVYIMIR research journal(International),Volume 5, Issue 8, August 2020.75-86,ISSN:0130-7673(UGC Care Approved,Web of Science)
8. Manimekalai S, Mary U,**On molecular descriptors with Python of fullerene**, The international journal of Analytical and Experimental Modal Analysis, 11(12), 1791-1805, Dec 2019. ISSN: 0886-9367.(UGC CARE List)
9. Manimekalai S, Mary U, **Neighborhood degree based index for graph**

- operations related to composition**, International journal of recent technology and Engineering,8(4),8723-8728, Nov 2019.(Scopus Indexed)
10. Manimekalai S, Mary U, Rajam K, **On molecular descriptors with Python of 3D Lattice**, The international journal of Analytical and Experimental Modal Analysis, 11(9), 740-757, Sep 2019. ISSN: 0886-9367. (UGC CARE List)
  11. Manimekalai.S. U.Mary,**Various Characteristics of Few topological indices for stable graphs**, International Journal of Engineering and Technology, Special issue ,Page:925-927, October 2018(ISI/Scopus Indexed)
  12. Manimekalai.S. U.Mary, **Computation of Total Eccentricity using Python Program**, International Journal of Physics Conference Series ,Volume 1139, ISSN:1742-6596(012070) ,Page:1-7, December 2018(ISI/Scopus Indexed)
  13. Manimekalai.S. U.Mary,M.Lavanaya, **Computation of Topological Indices using Python for Chemical Graph structure**,International Journal of Physics Conference Series,Volume 1139(012060),ISSN:1742-6596, December 2018(ISI/Scopus Indexed)
  14. Manimekalai.S. U.Mary, **Numerical Computation of Wiener Index for Bridge molecular structure in medicines**, International Journal of Advanced Research Trends in Engineering and Technology,Volume:5 Issue 12,Page:457-460,April 2018,ISSN:2394-3777.(UGC Approved)
  15. Manimekalai.S. U.Mary, **Computation of Zagreb Index for Complex Graph Theory**, International Journal of Creative Research Thoughts,Volume 6, Issue 2,Page:262-264, April 2018,ISSN:2320-2882 (UGC Approved)
  16. Manimekalai.S. U.Mary, P.Yuvarani, **Characterization of the Wiener Index for Trees and Connected Graphs G with Equal Domination and a Cyclic Domination Number  $\tau(G) = \tau_a(G)$  Complement of Graphs**, International journal of pure and Applied Mathematics,Volume 117 .,ISSNchallenges:1314-3395,ISSN:1311-8080., Page441-446:, December 2017, ISSN No 12, SCOPUS indexed13118080
  17. Manimekalai.S,M.Revathy,Gokilamani.S,**An advanced Method for solving fuzzy transportation problem with Minimum cost using Robust Ranking**

**Techniques** , International Journal of Science and Research , Volume.4, Issue 4 ,ISSN:2319-7094, April 2015(UGC Approved).

18. Manimekalai.S. Gokilamani.S,Anandhi.R ,**Friendship two-graphs in Route Mapping Technology**, International Journal of Scientific Engineering and Research, Volume 2 , Issue 9 , ISSN:2347-3878,September 2014(UGC Approved)
19. Manimekalai.S. Anandhi.R, **Advanced Techniques in Fuzzy  $\mu$  - open sets for Scientific Research**, IJSER, Vol.4 , Issue 7 ISSN:2229-5518, June 2013(UGC Approved)
20. Manimekalai.S. Anandhi.R,**Generalized  $\gamma$ -axiom for Advanced Engineering Applications**, IJERT ,Vol.1 , Issue 5 , ISSN:2278-0181,Page:1-6,July 2012(ELSEVIER SSRN)

#### National

1. Rajam K, Mary U, Manimekalai S, **Computation of Zagreb indices of Cationic Detrimer**, Journal of Information and Computational Science, 9(10), Oct 2019. (UGC CARE List)
2. Manimekalai.S. Gokilamani.S,Revathy .M, Anandhi.R ,**Using Pde Mathematical Model for Airodynamics of Lifting Surfaces in Non – Uniform Motion**,International Journal of Science Research and Management, Volume 3,Issue:12,ISSN:2321-3418,page3798 to 3805 Issue 12,December 2015(UGC)

#### Book Publications

- **Business Mathematics and Statistics**,R.Sowrirajan and S.Manimekalai, McGraw Hill Education India Pvt Ltd., Indian Branch, 2019, ISBN:93-5316-848-1
- **Book Chapter** “Computation of Molecular Descriptors for Chemical Graph Structure Using Python” in **Theory and Practice of Mathematics and Computer Science**, S.Manimekalai, **Book Publishers International, 2021**,ISBN 978-93-90888-20-7 (Print),ISBN 978-93-90888-28-3 (eBook),DOI: 10.9734/bpi/tpmcs/v9.

#### Presentations in Conference

1. Higher Education Qualities in NAAC Sponsered two day state level conference on Achieving Academic Excellence through IQAC at Dr.N.G.P Arts and Science College, Coimbatore , 9&10 Dec-2011
2. Applications of Fuzzy sets in State level seminar on Advanced Trends in Mathematical Sciences at Dr.N.G.P Arts and Science College, Coimbatore, 17 Feb-2012.
3. National Conference on “Recent Advances in Graph Theory and Its Applications” 25 Jan-2014 , Kongu Arts and Science College, Erode.
4. Fuzzy gp-continous maps in Fuzzy Topological Spaces in National Level Conference on Mathematical Science and its computational Aspects, Dr.N.G.P Arts and Science College, Coimbatore, 7 Feb- 2013.
5. Applications of Algebra to Biological Sciences in National Level Conference on Algebra and Analysis at P.S.G.R. Krishnammal College for Women, Coimbatore during 23&24Aug-2013
6. An Queue with Bernoulli schedule, general vacation times, Random breakdowns, general delay times and general repair times in National Level Conference on Optimization Techniques and Decision Making Analysis, Dr.N.G.P Arts and Science College, Coimbatore 25 Sep-2013.
7. Derivation of the Navier-Stokes equation in SERB (DST) Sponsored International Conference on Mathematical Science and its Computational Applications ,Dr.N.G.P Arts and Science College, Coimbatore ,11<sup>th</sup>& 12<sup>th</sup> Aug 2014.
8. Applications of Mechanics in Mathematics in National Seminar on Emerging Trends in Fuzzy and its Applications at Kongu Arts and Science College on 30 Jan 2015 .
9. National Conference on Emerging Trends in Pure and Applied Mathematics , Dr.N.G.P Arts and Science College, Coimbatore on 14 &15 September 2015.
10. Windmill and Friendship Two Graph in Route Mapping in the Inter National Conference on Fuzzy Queing Theory and its Applications at Bharathidasan College of Arts and Science, 03 Sep-2016.
11. Using PDE for Aerodynamics of lifting surfaces in non uniform motion in the National conference on emerging trends in Mathematical Sciences at KG College of Arts and Science, 20<sup>th</sup> Feb 2016



12. Applications of PDE in National Conference on Recent Advances in Theoretical and Computational Methods for PDE at Dr.N.G.P Arts and Science College, Coimbatore on 6&7 Jan 2017
13. Applications of Graph theory in Computer Science and Engineering in National Conference on Recent advances in Mathematics and its applications in Science and Engineering at Dr.N.G.P Arts and Science College, Coimbatore on 3 Feb 2017
14. Network and its Applications in Graph Theory in National Conference on Current Scenario in the Application of Mathematical Sciences , Vellalar college for Women , 9 February 2017
15. Optimization Techniques and its Applications in National conference at Bharathidasan College of Arts and science, Erode 17 & 18 Aug 2017
16. Characteristics of Wiener Index For Complement of Graphs , National seminar Karpagam University 15 Sep-2017
17. The Wiener Polynomials and Wiener Index of Graphs under some Graph Operations in Inter National conference in at Vidya Academy of Science and Technology, Thrissur on 19 & 21 July 2017
18. Computation of Wiener Index for Bridge Molecular Graphs in National conference in the topic of Advances in Applicable Mathematics at P.A. College of Engineering and Technology, Pollachi 24& 25 Jan-2018
19. General Formula for Numerical of  $W(G)$  of Bridge Molecular Graph in International conference on Current scenario in pure and Applied Mathematics at Kongunadu Arts and Science College on 14& 16 Feb 2018
20. Computation of Wiener for complex graph Structure in International seminar on emerging trends in Mathematics at VIT,Vellore 29 -31 March-2018
21. Topological index for complex graph structure in International conference on Applied and computational Mathematics at Erode Arts and Science College at 10 Aug 2018.
22. Computation of Topological indices for subdivision of  $C_n$  and ring sum operation on graphs using Python Program at Christ University ,Bangalore, 27-28 Feb 2019
23. Computation of eccentricity associated topological indices using Python program for Comb tree at Sri VidhyaMandir Arts and Science College, 29-30 July 2019.

24. The Eigen values for the path P5 on National conference on Emerging trends in Mathematics with Computer Applications, Dr.N.G.P. Arts and Science College 12-13 September 2019
25. Molecular Descriptors of dodecagonal network with Python program and bounded on new parameters for some topological indices at Bharathiar University at 21<sup>st</sup> and 22<sup>nd</sup> FEB 2020.
26. Descriptors of Lattices for Nano Particles using Python Program on International Conference on Mathematical Techniques and Applications at SRM University, Chennai between 23.03.2022 to 25.03.2022.
27. Predicting drug molecule properties using Mathematical index at PSG College of Arts and Science college between 24<sup>th</sup> and 25<sup>th</sup> Jan 2023.
28. Even edge coloring for network applications on International conference at Nirmala College for Women between 2<sup>nd</sup> -3<sup>rd</sup> Feb 2023

### **Participation in Conference**

#### **International**

1. A Two days International Conference on Advanced Materials for Emerging Technologies by Sri Ramakrishna mission Vidhyalaya College of Arts and Science 26<sup>th</sup>- 27<sup>th</sup> April 2021.
2. International Conference on New trends in differential equations and Applied Mathematics at Sri VidhyaMandir Arts and Science College, Krishnagiri on April 12-13 2021.

#### **National**

3. Nirmala Annual Research Congress at Nirmala College for Women on 6 Dec-2017
4. National conference on Emerging Trends in Topology and Applications of Analysis at Kongu Arts and Science College, Erode on 10 Feb 2017
5. National Conference on Emerging education models for 21<sup>st</sup> century learner organized by Association of Principals of colleges of Bharathiar University on 1<sup>st</sup> Aug 2015.

### **Participation in Seminars**

1. Test of Significance by SPSS at Vignan's Foundation of Science, Technology and Research, 05<sup>th</sup> June 2021

2. Implementation of Mathematics in Day to Day Life on Diversified Realms by PPG College of Arts and Science on 19.05.2021
3. Research and Innovation Driven, IPR & Patent Filing by Dr.T.Thimmaiah Research and innovation council on 11<sup>th</sup> Nov 2020.
4. One day National level symposium on Exploration of research Innovations: Its trends and challenges at Nirmala college for women on January 11<sup>th</sup> , 2020
5. International Seminar in Graph spectra and topological indices, Arignaranna government arts college attur, 4<sup>th</sup> Oct 2019.
6. National Seminar in Recent trends in Graph Theory at Nirmala College for Women 21<sup>st</sup> Feb 2019
7. National seminar on New Horizons in Mathematics at Rathinam College of Arts and Science between 03 & 04 Jan 2018
8. Neoteric Notion in Algebra (NNA) in International Symposium at Nandha Arts and College on 21 Sep 2016.
9. Placement Readiness organized by Bharathiar University and Dr.N.G.P.Arts and Science College on 10 & 12 Feb 2014

### **Participation in Workshop**

1. International level technical Symposium on VIRTIT 2K22 by Bell Institute of Hotel Management & catering technology on 30.05.2022
2. Two day Workshop on Functional Analysis and Abstract Algebra by Vellore Institute of Technology, Chennai on 11<sup>th</sup> and 12<sup>th</sup> March 2022
3. One day workshop on NPTEL E Awareness by IIT Madras on 06.01.2022.
4. National level webinar on National Education Policy Vision to action organized by Sankara College of Science and Commerce on 31.12.2021.
5. One day webinar on Role of Machine learning Application today and Tomorrow at Dr. M.G.R. Educational and Research Institute on 12.11.2021
6. One day webinar on Learn Principles of Engineers by Nehru Institute of Technology on 30.08.2021
7. Webinar on Graph Theoretical Concepts in Python Network by KSG College of Arts and Science on 23.08.2021

8. Two days National webinar on Differential Equations and Applications of Mathematics by Srinivasan College of Arts and Science on 16<sup>th</sup>-17<sup>th</sup> July 2021.
9. Series of National Webinar by Christian eminent College and SMT.K.G. Mittal College of Arts and Science on 2<sup>nd</sup> July 2021.
10. Webinar on Operations research and Applications organized by The Oxford College of Engineering by 30<sup>th</sup> June 2021
11. National Webinar on Application of Statistics in Wildlife Sciences in connection with National Statistic day by Auro's Degree and PG College on 29<sup>th</sup> June 2021
12. Virtual workshop on Abstract and Linear Algebra by Karpagam Academy of Higher Education from 21<sup>st</sup> to 26<sup>th</sup> June 2021
13. National Workshop on How to write a research paper by Vellore Institute of Technology on 22<sup>nd</sup> June 2021
14. Webinar on build a Career in Management (CAT,MAT,XAT) by Hindustan College of Engineering and technology on 19<sup>th</sup> June 2021
15. National Level online Workshop on research Methodology by Christian Eminent College, Indore during 14<sup>th</sup> to 16<sup>th</sup> June 2021
16. National Webinar on Effective research writing in Mathematics at Patrician College of Arts and Science on 12<sup>th</sup> June 2021
17. Webinar on Fractals and their applications in Science and Engineering at Sri Ram Institute of Technology on 18 June 2021
18. Webinar on Cosets and Lagrange's Theorem at K.R. College of Arts and Science, Kovilpatti on 09<sup>th</sup> June 2021
19. National Webinar on Applications of Graphs in Communication and Social Networks at Vignan's Foundation of Science , Technology and Research on 8<sup>th</sup> June 2021
20. Six days STTP on Innovative Tools for Mathematics Hindustan College of Engineering and Technology, 03<sup>rd</sup> -8<sup>th</sup> May 2021
21. Two day virtual workshop on Research and related tools,CMS College of Science and Commerce on 16-17 April 2021.
22. Skill Development, Bharathiar University workshop on "Enhancing the Life Skill of theResearch Scholars in Bharathiar University" 27.01.2021- 02.02.2021
23. Live workshop on Copyrights in India by Turnip innovations 20<sup>th</sup> Nov 2020

24. International workshop on Numerical and Analytical Techniques in Engineering Problems by SRM Institute of Science and Technology during 12-13 Nov 2020
25. One day national webinar on Innovation computational Techniques in Optimization Algorithms by KSR College of Technology 10<sup>th</sup> Nov 2020
26. Five day Webinar series on Online tools for innovative mathematical education and Research by KSR College of Technology, Tiruchengode during 27-31, October 2020.
27. Workshop on Software reliability by KPR Institute of Engineering and Technology at 08<sup>th</sup> October 2020.
28. Webinar on Applications of nature inspired optimization techniques for solving real life problems by KPR Institute of Engineering and Technology at 08<sup>th</sup> October 2020.
29. Workshop on Data Visualization in R by MES College, Marampallyat 23<sup>rd</sup>-25<sup>th</sup> July 2020
30. Lecture Series on Graph Theory and its applications by MAR Thoma College 19<sup>th</sup> -21<sup>st</sup> July 2020
31. Workshop on Mathematical Models in Applied Science by PSG College of Technology at 21<sup>st</sup> July 2020
32. Webinar on Understanding phrase structure Grammers and Formal Languages with JFLAP Software by SSKV College of arts and Science at 12<sup>th</sup> July 2020
33. Webinar on Introduction to Matlab by Gobi arts and Science College at 26<sup>th</sup> June 2020
34. Webinar on An Introduction to domination in Graph theory by KG college of Arts and Science at 05<sup>th</sup> June 2020
35. Two day Webinar on Distance in Graphs by KPR Institute of Engineering and Technology at 03<sup>rd</sup> -04<sup>th</sup> June 2020
36. Mathematical documentation and Computation using online tools organized by St.Mary's College, Thoothukudi at 28<sup>th</sup>-30<sup>th</sup> May 2020
37. Mathematical E Quiz Organized by Don Bosco College of Arts and Science, Thoothukudi between 21<sup>st</sup> May 23<sup>rd</sup> May 2020.
38. Webinar on Importance of Biodiversity for the Welfare of Mankind at Auro's Degree&PG College on 16<sup>th</sup> May 2020.
39. Webinar workshop on Applications of graph theory at Shri Krishnaswamy College for women, Chennai on 15-05-2020.
40. Webinar on Good teacher to Good teacher by ICT Academy on 14<sup>th</sup> May 2020.
41. International Webinar on Lead with emotional intelligence during Covid 19 at

NallamuthuGounderMahalingam College on 9<sup>th</sup> May 2020.

42. One week Workshop on Mathematics for Gate/CSIR at Shri Narayanaguru college of Arts and Science between 13<sup>th</sup>- 17<sup>th</sup> May 2020
43. CSIR Sponsored a Two day National level Workshop on Theoretical and Computational Fluid Dynamics at Erode Sengunthar Engineering College ,Erode between 21<sup>st</sup> -22<sup>nd</sup> December 2018
44. Workshop on Creating Awareness on Menstrual health and Hygiene Management among rural and Tribal Adolescent girls in Pollachi at Bharathidhasan University arts and Science College, Pollachi during 23 & 24 Feb 2018.
45. State level Workshop on Applications of Statistical Tools Using R-Language- A Hands on Training at Dr.N.G.P.Arts and Science College on 23<sup>rd</sup> to 24<sup>th</sup> September 2016
46. Matlab workshop at Dr.N.G.P.Arts and Science College on 20<sup>th</sup> December 2012
47. Mathematical Software Workshop at Dr.N.G.P.Arts and Science College on 9<sup>th</sup> to 11<sup>th</sup> January 2014

#### **Participation in Faculty Development Programme**

1. TEQIP-II sponsored Faculty Development Programme on Evaluation and Relative Grading at P.S.G.College of Technology, Coimbatore on 28.12.2013
2. Faculty Development program on Statistical modeling for Data Analysis at Vivekananda Institute of Management Studies between 18<sup>th</sup> to 19<sup>th</sup> June 2012
3. Faculty Development program on Algebra and Number Theory, Dr. N.G P. Institute of Technology, 18<sup>th</sup> May 2019
4. Faculty Development program on NAAC revised accreditation frame work and OBE assessment Methodology, Dr.N.G.P. Arts and Science College, May 27-June 02-2019
5. Online Faculty Development program on JAVA programming, IIT Bombay January 2020
6. Online Faculty Development program on PYTHON programming, IIT Bombay January 2020
7. Faculty development Program on Quality initiatives in higher education at consortium of colleges , Apr 13<sup>th</sup> – Apr 20<sup>th</sup> 2020

8. Online Faculty Development program on Cyber Forensic, Kalasalingam Academy of research and education Apr 18,2020
9. Online Faculty Development program on Cyber Attack, CMR groups of Institutions , Hyderabad, Apr 19,2020
10. Online Faculty Development program on Cyber Security, Vels Institutes of Science Technology April 20,2020
11. Online Faculty Development program on R programming, IIT Bombay 19<sup>th</sup> April to 24<sup>th</sup> April 2020
12. Live Online Faculty Development program on Virtual Teaching ,CIT Coimbatore, 29<sup>th</sup> to 30<sup>th</sup> April 2020
13. Online Faculty Development program on LATEX , AVIT (Group of Vinayaka Missions educational Foundation),20-24 April 2020
14. Online Faculty Development program on Scilab, AVIT (Group of Vinayaka Missions educational Foundation),20-24 April 2020
15. Online Faculty Development program on Digital Knowledge,ICT Academy from20-24<sup>th</sup> April 2020
16. International Faculty Development program on Develop the ability to write research proposal at AIMIT,Bengaluru, 24<sup>th</sup> April 2020
17. Faculty development Program on Documentation of graph using LaTeX at C Abdul Hakeem College of Engineering and Technology, Chennai on 13<sup>th</sup> May 2020.
18. Faculty development Program on Innovative Approaches in Mathematics Series 2 at Shree SaraswathiThiyagaraja College on 13<sup>th</sup> to 14<sup>th</sup> May 2020
19. International Faculty development Program on AI based proctoring in next generation education at Shri ShankarlalaSundarbaiShasun Jain College for Women, Chennai 23<sup>rd</sup> May 2020.
20. Faculty development Program on Mathematical and Statistical modeling by Godavari Institute of Engineering and technology at 26<sup>th</sup>-30<sup>th</sup> May 2020.
21. Live online Faculty development Program on Applications of MOODLE LMS and earning competency of Gnomio Moodle Creation for OBE at Cresent Institute of technology, Chennai 11<sup>th</sup> -25<sup>th</sup> July 2020

22. Two day international Faculty development Program on Fixed point theory and its applications at St. Joseph's College of Engineering, 08<sup>th</sup> -09<sup>th</sup> Aug 2020
23. Three day National Faculty development Program on Data visualization In R at MES College Marampally, 23<sup>rd</sup> -25<sup>th</sup> Sep 2020.
24. International Faculty development Program on Fixed point theory at St.Josephs College of Engineering, 08-09<sup>th</sup> July 2020
25. One week Faculty development Program on Digital Teaching Techniques by ICT Academy.
26. Online 10 days FDP for e-learning content by Scroll Well Ltd Feb 26<sup>th</sup>to March 7<sup>th</sup>-2021.
27. Seven days International Faculty Development Program at PPG College of Arts and Science on Industrial revolution 4.0: Emerging Trends in Information Technology 21<sup>st</sup> -28<sup>th</sup> May 2021
28. One day FDP on IOT in Smart City ApplicationsbyHindusthan College of Engineering and technology on 5<sup>th</sup> June 2021
29. One day Professional development Program on Solving delay differential Equations using Numerical Methods by Hindusthan College of Engineering and technology on 9<sup>th</sup> June 2021
30. One week online Faculty development Program on MATLAB and its Applications by Dr.N.G.P. Institute of technology between 7<sup>th</sup> to 12<sup>th</sup> June 2021.
31. Online FDP on Research methodology and Pedagogy for Tertiary Education by Dr.N.G.P Arts and Science College on 15-21June 2021.
32. Six days online Faculty development Program on Research and Application Perspectives of Artificial Intelligence by KPR Institute of Engineering and Technology with SreeSaraswathyThiyagaraja College between 16<sup>th</sup> to 21<sup>st</sup> June 2021
33. Five days Faculty Development Program on Mathematical Tools by Hindustan College of Engineering and technology between 21<sup>st</sup> to 25<sup>th</sup> June 2021.
34. Six days online Faculty development Program on Application of Mathematics in Science and Technology by Narasu'sSarathy Institute of Technology 21<sup>st</sup> to 26<sup>th</sup> June 2021.
35. Six days virtual Faculty development Program on Recent Trends in Data Science and Big data Analytics by KG College of Arts and science College 28.06.2021 to 30.07.2020



36. Two days virtual Faculty development Program on Teaching and Learning Process through Revised Blooms Taxonomy by Dr.N.G.P. Institute of Engineering and Technology between 1-2 July 2021
37. Five days International Faculty Development Program on Research and Innovations by SRM Institute of Science and technology from 5<sup>th</sup>-9<sup>th</sup> July 2021
38. Seven days international Faculty development program on Research Methodology & Innovation by PPG College of Arts and Science 5<sup>th</sup> -12<sup>th</sup> July 2021.
39. Five days International Professional Development Program on Research analysis for Social Sciences by SRM Institute of Science and Technology on 13<sup>th</sup> -17<sup>th</sup> July 2021
40. Ten days FIP online short term course on Biostatistics and R programming at Rathinavel Subramaniam College of Arts and Science on 09.08.2021 to 19.08.2021
41. Six days Virtual FDP on Recent Research Advances in Mathematics by St. Joseph College, Chennai between 04.10.2021 – 09.10.2021
42. Seven days FDP on OBE road ahead to advance educational quality and enhance global mobility by Kongunadu Arts and Science College between 10.11.2021 to 17.11.2021
43. One day FDP on Introduction to Mutual Fund by Dr. N. G. P Arts and Science College on 27.12.2021
44. UGC Stride sponsored Five days FDP on Environmental Sustainability and Research Ethics at Avinasilingam Institute for Home Science and Higher Education for Women between 14<sup>th</sup> March to 18<sup>th</sup> March 2022.
45. Two Days National Level online FDP on Plagiarism in Academic Research and Author Identifiers by Indian Institute of Management and Commerce on 11.04.2022 to 12.04.2022
46. Seven days national level FDP on Fundamentals of research and research methodology by IOT academy between 06.10.2022 to 14.10.2022.
47. One week national level FDP on recent research area and its applications in Mathematics by VELS Tech Multi Tech between 06.10.2022 to 14.10.2022.
48. Ten days Short term professional development programme , Indira Gandhi National Open University between 21-31 December 2022.

### Conference / Seminar / Workshop Organized

1. **Organizing secretary** for the National conference Stochastic Differential Equations and its applications on 27<sup>th</sup> December **2018**.
2. **Organizing member** for Faculty Development program on Quality measures in Higher education, Dr.N.G.P. Arts and Science College, 3-9 Dec-2018
3. **Organizing secretary** for the National conference Applications of Statistics in Biological Sciences, Dr.N.G.P. Arts and Science College on 07-08 Feb 2019
4. **Organising member** for National Workshop on Data Analytics and its Applications in Biotechnology, Dr.N.G.P. Arts and Science College, 14-15 Feb 2019
5. **Organizing committee member** for the 2<sup>nd</sup> National conference on Emerging trends in Mathematics with Computer Applications, Dr.N.G.P. Arts and Science College 12-13 September 2019
6. **Organizing committee member** for the Second international conference on Recent trends in computing Technologies on 28-29 Feb 2020
7. **Organizing committee member** for the Workshop on Big data analytics in Clinical Lab Technology, Dr.N.G.P. Arts and Science College on 18-19 Mar 2021
8. **Organizing Coordinator** for the Event Management Lecture series in Health and safety Importance while Planning an event, Dr.N.G.P. Arts and Science College on 27.05.2021
9. **Organizing Coordinator** for the Event Management Lecture series in Leadership Skills, Dr.N.G.P. Arts and Science College on 31.05.2021
10. **Organizing Coordinator** for the Event Management Lecture series in Personality Traits for successful Event Management, Dr.N.G.P. Arts and Science College on 01.06.2021
11. **Organizing Coordinator** for the Event Management Lecture series in Planning and Memory management in an Event, Dr.N.G.P. Arts and Science College on 02.06.2021
12. **Organizing Coordinator** for the Event Management Lecture series in Soft Skills for a Great Event Planner, Dr.N.G.P. Arts and Science College on 07.06.2021
13. **Organizing Coordinator** for the Event Management Lecture series in Communication Hashtags, Dr.N.G.P. Arts and Science College on 08.06.2021

### Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Board of Studies Dr.N.G.P.Arts and Science College	Chairman	2016-2017
Board of Studies Dr.N.G.P.Arts and Science College	BoS member	2017-2022
The Association of Mathematics Teachers of India (AMTI)”.	Member	Life Time
YavarumKelir	Editorial Member	2020-present
Institute of Researchers	Life Member	June 2022- Present

### Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Best Personality	Economic Growth foundation	2018
Best Work Paper	Sri Nallagoundar Awards	2020
Best Researcher	International Research Awards on Science Health and Engineering SHEN research Awards	2020
Certificate of excellence in Reviewing	Journal of Pharmaceutical Research International	Since 2021
Reviewer	Arabian Journal of Chemistry	Since Oct 2021
Certificate of excellence in Reviewing	Asian Research Journal of Mathematics	5.05.22
Certificate of excellence in Reviewing	Asian Journal of Mathematics and Computer Research	7.04.22

PAVAIASIRIAR	Yavarumkelir	27.03.2022
Research Excellence Award 2022	Institute of researchers	22.06.2022
Reviewer	Asian Journal of Pure and Applied Mathematics	20.08.2022,09.09.2022,19.09.2022
Reviewer	Asian Journal of Cardiology Research	23.08.2022
Reviewer	Asian Journal of Medicine and Health	18.08.2022
Reviewer	Asian Research journal of Mathematics	08.05.2022,24.09.2022,28.10.2022,30.12.2022
Reviewer	Journal of Pharmaceutical Research International	01.04.2022
Reviewer	Journal of advances in Medicine and Medical Research	22.12.2022