

## BIO DATA



Name : K. Basari Kodi

Designation : Professor

Department : Mathematics

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Google Scholar link :

<https://scholar.google.com/citations?user=j-d5ybsAAAAJ&hl=en>

### 1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.Sc.,	Mathematics	VVV College for Women, Madurai Kamaraj University	1990
M.Sc.,	Mathematics	VVV College for Women, Madurai Kamaraj University	1992
M.Phil.	Mathematics	Madurai Kamaraj University	1997
Ph.D	Mathematics	Alagappa University	2010

### 2. Professional/ Industry Experience

: (in chronological order)

S.No	Designation	Institution/ Organization	Period	
1	Lecturer	Mohamed Sathak Engineering College	01-07-1996	30-06-2001
2	Assistant Professor (Senior Grade)	Mepco Schlenk Engineering College	05-07-2001	31-05-2013
3	Professor	Ramco Institute of Technology	01.06.2013	Till date

### 3. Research Interest : Topology

Updated as on 08.06.2026

## 4 Publications

### 4.1 JOURNAL PUBLICATIONS

1. J. Rajalakshmi, K. Basarikodi, S. Jeevitha, K. Senthilkumar, A. Bhuvanesh & Venkata Saiteja Kalluri, ARTFNet: Auto Regression Transformer Network for Assessing Salesforce Influence on Manufacturing KPIs, SN Computer Science, Volume 7, article number 501 (2026) (**SCOPUS**)
2. R Subasree, K Basari Kodi, Giorgio Nordo, K Subramanian, N Nagamani, Role of clans in the proximities of Neutrosophic Sets, Neutrosophic Sets and Systems, Vol. 98, 2026, 93-104 (**SCOPUS**)
3. S. Muthukumar, J. Ebenesar Anna Bagyam and K. Basarikodi, Performance Optimization of M/M/1 Queues with Working Vacations and Server Breakdowns in Wireless Communication Systems, Journal Of Telecommunications and information technology, [Vol. 101 No. 3 \(2025\)](https://doi.org/10.26636/jtit.2025.3.2195), DOI: <https://doi.org/10.26636/jtit.2025.3.2195> (**SCOPUS**)
4. Basari Kodi Kaja Mytheen, Murugachandavel Jeyakumar, Kannan Ramasamy, Geetha Mani, Prabhu Jayamurugan, Bhuvanesh Ananthan, Machine learning based strategies for managing employee retention: determining factors in hospitality industry, Indonesian Journal of Electrical Engineering and Computer Science, Vol. 38, No. 3, June 2025, pp. 1652~1660, DOI: 10.11591/ijeecs.v38.i3.pp1652-1660 (**Scopus**)
5. Sai Chakravarthy Malineni, Kaja Mytheen Basari Kodi, Jeevitha Sakkarai, Gomathinayagam Nallasivan, Mani Geetha, Bhuvanesh Ananthan, Enhancing fruit recognition with robotic automation and salp swarm optimization for random forest classification, Bulletin of Electrical Engineering and Informatics, Vol. 14, No. 3, June 2025, pp. 2120~2130, DOI: 10.11591/eei.v14i3.8917 (**SCOPUS**)
6. R. Saravanakumar, K. Basari Kodi, T. Selvaganesh, K. Subramanian, K. Saranya, Nazek Alessa, Variational Iteration Method for Solving Reaction Diffusion Equation in Oscillatory Chemical Reactions, Int. J. Anal. Appl. (2024), 22:156 (**SCOPUS**)
7. Subasree R , Basari Kodi K , Saeid Jafari , and Subramanian K, Heptagonal Neutrosophic Quotient Mappings, Neutrosophic Sets and Systems {Special Issue: Mediterranean Conference on Three Decades of Neutrosophic and Plithogenic Theories and Applications (MeCoNeT 2024)}, Vol. 73, 2024. (**SCOPUS**)
8. Subasree R , Basari Kodi K , Saeid Jafari , and G. Nordo, A Note on Generalized Heptagonal Neutrosophic Sets, Neutrosophic Sets and Systems {Special Issue: Mediterranean Conference on Three Decades of Neutrosophic and Plithogenic Theories and Applications (MeCoNeT 2024)}, Vol. 73, 2024 (**SCOPUS**)
9. F.Fanax Femy , G. Nallasivan , K. Basarikodi , C. Natarajan , A. Bhuvanesh , T. Swapna, A System to Classify Chronic Obstructive Pulmonary Disease using Pre-trained-Densenet201 with TSA, Measurement: Sensors, Volume 33, June 2024, 101234. <https://doi.org/10.1016/j.measen.2024.101234> (**SCOPUS**)
10. Antony AsirDaniel V , Basarikodi K , Suresh S , Nallasivan G , Bhuvanesh A , Milner Paul V , Development of Evolutionary Gravity Neocognitron Neural Network Model for Behavioral Studies in Rodents, Measurement: Sensors, Volume 33, June 2024, 101194, <https://doi.org/10.1016/j.measen.2024.101194> (**SCOPUS**)
11. Subasree R, Basari Kodi K, On Heptagonal Neutrosophic Semi- open sets in Heptagonal Neutrosophic topological spaces: Testing Proofs by Examples, Neutrosophic Systems with Applications Vol. 17 (2024) DOI: [10.61356/j.nswa.2024.17247](https://doi.org/10.61356/j.nswa.2024.17247) (**SCOPUS**)

12. Subasree R., Basari Kodi K., Sathikala L., Subramanian K. A Study on various Pentapartitioned Neutrosophic generalized closed sets , International Journal of Neutrosophic Science (IJNS) Vol. 20, No. 04, PP. 235-240, 2023  
DOI: [10.54216/IJNS.200419](https://doi.org/10.54216/IJNS.200419) (SCOPUS)
13. Subasree R, Basari Kodi K, A Study on  $N\Psi\beta$  and  $N\beta\Psi$  - Closed sets in Neutrosophic Topological spaces , Baghdad Science Journal, 2023, 20(1 Special Issue) ICAAM: 283-287. DOI: <https://dx.doi.org/10.21123/bsj.2023.8413> (Scopus)
14. S. Periyannayagi , V. Nandini,\* , K. Basari Kodi and V. Sumathy, Computer Systems Science and Engineering, IOT Assisted Biomedical Monitoring Sensors for (SCOPUS)
15. Subasree R, Basari Kodi K, On  $N\beta^*$ -Closed sets in Neutrosophic Topological spaces, Neutrosophic Sets and Systems, Vol.50, 2022,  
[https://digitalrepository.unm.edu/cgi/viewcontent.cgi?article=2094&context=nss\\_journal](https://digitalrepository.unm.edu/cgi/viewcontent.cgi?article=2094&context=nss_journal) (SCOPUS)
16. Basari Kodi K,Subasree R,and Sathikala L, Scope for application of Topological spaces in Data Granulation through a new class of nearly open set Semi\* Regular\*-Open sets, Turkish Journal of Computer and Mathematics Education, Vol.12 No.2(2021), 2176–2179, <https://doi.org/10.17762/turcomat.v12i2.1900> (Scopus)
17. Sathikala L , Basari Kodi K , and Subramanian K. Connected and Total Vertex covering in Graphs, Turkish Journal of Computer and Mathematics Education, Vol.12 No.2 (2021), 2180 – 2185, <https://doi.org/10.17762/turcomat.v12i2.1901>(Scopus)
18. Basari Kodi K. A New Closed Set on Ideal Topological Spaces. Journal of Advanced Studies in Topology,4(1), 2013, 18-21.  
<https://doi.org/10.20454/jast.2013.460> (Peer Reviewed)
19. Basari Kodi, K. & Palaniappan, N. (2012). Another Characterization of  $(\{\alpha\} T_{\{b\}})$ -Spaces. Journal of Advanced Studies in Topology,3(3), 2012, 95:98. <https://doi.org/10.20454/jast.2012.379> (Peer Reviewed)
20. Palaniappan, N. and Basari Kodi, K. On  $M^*$ -compact spaces, Kochi Mathematical Journal, Japan Vol. 5, 2010, pp.45-52. <http://www.math.kochi-u.ac.jp/journal/newjour5.html>. (Peer Reviewed)
21. N. Palaniappan, K. Basari Kodi and J. Antony Rex Rodrigo; “On  $M^*$  - closed sets in topological spaces”, International J. of General Topology,1(2) (2009),67-77. (Peer Reviewed)

#### 4.2 CONFERENCE PUBLICATIONS:

1. R. Subasree, K. Basari Kodi and L. Sathikala, *Heptagonal Neutrosophic Quotient Mappings*, International Conference on Mathematical Challenges and Novel Applications, organized by ANJAC, Ramco Institute of Technology and SFRC, during 21.03.2024–22.03.2024.
2. R. Subasree, K. Basari Kodi and K. Subramanian, *Generalized Heptagonal Neutrosophic Set*, International Conference on Mathematical Challenges and Novel Applications, organized by ANJAC, Ramco Institute of Technology and SFRC, during 21.03.2024–22.03.2024.
3. R. Saravanakumar, K. Basari Kodi, T. Selvaganesh and K. Subramanian, *A Semi-Analytical Approach to Reaction Diffusion for Oscillatory Chemical Reactions*, International Conference on Mathematical Challenges and Novel Applications, organized by ANJAC, Ramco Institute of Technology and SFRC, during 21.03.2024–22.03.2024.

4. K. Basari Kodi, *On M-Homeomorphisms\**, International Conference on Smart Technologies and Applications (ICSTA 2022), Ramco Institute of Technology, Rajapalayam, during 2022.
5. K. Basari Kodi, M. Gomathy Nayagam, S. Eswari, R. Jaganathan, L. Sathikala and K. Vijayalakshmi, *An Efficient Task-VM Assignment Model in Cloud Computing using Hungarian Algorithm with Priority*, International Conference on Sustainable Technology in Civil Engineering and Applied Sciences (ICSTCA'23), Ramco Institute of Technology, during 24.03.2023–25.03.2023.
6. R. Subasree and K. Basari Kodi, *On  $bw$ -Closed Sets in Intuitionistic Fuzzy Topological Spaces*, International Webinar on Computational Science and Emerging Technologies (IWCSET 2020), Ramco Institute of Technology, Rajapalayam, during 26.06.2020–27.06.2020.
7. K. Basari Kodi, Another Decomposition of Continuity, National Conference on Innovations Engineering , Science and Technology, RIT during 24.03.2017-25.03.2017
8. K. Basari Kodi, K. Subramanian, On  $s^*g$  closed maps on ideal topological spaces, National Conference on Innovations Engineering , Science and Technology, RIT during 06.03.2015-07.03.2015
9. Palaniappan N and Basari Kodi K, Decomposition of alpha Continuity, International Conference on Mathematical Methods, 24-25 July, 2009, pp.12-14

#### 4.3 Book/Book chapter publications:

1. “**Engineering Mathematics for First Year**”, Magnus Publication, Chennai.
2. “**Matrices and Calculus**”, Pearson Publication, ISBN No. 978-81-198-4774-7.
3. “**Statistics and Numerical Methods**”, VRB Publishers, Chennai, ISBN: 978-93-95018-56-2.
4. “**Statistics and Numerical Methods**”, Pearson Publication, ISBN No. 978-93-615-9771-8.
5. “**Discrete Mathematics**”, Vishnu Prints Media, Chennai, ISBN No. 978-81-19432-48-6.

#### 5 Short term Courses / Seminars /FDP/Workshop/Conference Attended:

Sl.No	Title of the event	Organized by	Date	
			From	To
1	Smart Content Design for Engaged Classroom	NITTR, Chennai	20/04/2026	25/04/2026
2	R & D Conclave 2025	RIT	23.12.2025	
3	Seventh National workshop on NIRF India Ranking 2026	Institute for Academic Excellence (IAE), Hyderabad	11-12.2025	12.12.2025
4	Modelling and Simulation using MATLAB	NITTTR, Chandigarh	16.12.2024	20.12.2024

5	Navigating Academic conferences, journal publications, a digital object identifier- A comprehensive workshop	Amrita Vishwa Vidyapeetham	03.05.2024	
6	QuillBot: An Effective Writing Tool	Central Library and Research Council, RIT	28.03.2024	
7	Vedic vs Classical Mathematics: Applications for Real-World Problems	NITTTR, Chandigarh; AICTE	19.02.2024	23.02.2024
8	Recent Advances in Applied Mathematics	Sri Manakula Vinayagar Engineering College, Puducherry	04.09.2023	08.09.2023
9	MATLAB Techniques for Solving Engineering Problems	NITTTR, Chandigarh	08.05.2023	12.05.2023
10	Designing and Modelling of IoT, AI and ML Systems	AICTE-ATAL Academy, Microcontroller and Digital Marketing, China	01.08.2022	05.08.2022
11	IUCEE International Engineering Educator Certification Program	IUCEE Foundation / International Society for Engineering Education, Austria	SPRING 2022	
12	Engineering Mathematics with MATLAB	RV College of Engineering, Bangalore	6.9.2021	8.9.2021
13	Five-Day FDP on Question Paper Authoring and Student Evaluation	NITTTR, Chennai	13.09.2021	17.09.2021
14	3-Day Workshop on "MATLAB for Beginners"	Srimad Andavan Arts and Science College, Trichy	28.07.2021	30.07.2021
15	Spoken Tutorial on R Language	Auxilium College; Spoken Tutorial, IIT Bombay	13.05.2020	20.05.2020
16	Faculty Awareness Program on NAAC Accreditation	Shri Chhatrapati Shivajiraje College of Engineering	10.05.2020	15.05.2020
17	FDP on Developing Curricula and Employment-Ready Graduates	Kumaraguru College of Technology; AICTE	14.02.2019	14.02.2019

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18	Orientation and Awareness programme on OBE and SAR preparation	Ramco Institute of Technology	23.11.2019	
19	FDP- Developing Curricula and Employment- Ready Graduates	Kumaraguru College & AICTE	14.02.2019	
20	Workshop-The Future of Higher Education- Leadership Conclave	AICTE	13.02.2019	
21	Awareness programme on SAR Preparation for NBA Accreditation	Ramco Institute of Technology	02.12.2017	
22	National Conference on Innovations Engineering , Science and Technology	Ramco Institute of Technology	24.03.2017	25.03.2017
23	National Conference on Innovations Engineering , Science and Technology	Ramco Institute of Technology	06.03.2015	07.03.2015
24	FDP on Introspection of Teaching Learning Process	Ramco Institute of Technology	23.12.2014	30.12.2014
25	Seminar- Software Technology and Theoretical Computer Science	Thiagarajar College of Engineering	08.02..2013	09.02.2013
26	SDP- Rising tendency and Uses of Numerical Techniques in Engineering and Industry	Mepco Schlenk Engineering College	23.12.2012	04.05.2012
27	International Conference- Emerging Trends in Mathematics and Computer Applications	Mepco Schlenk Engineering College	16.12.2010	18.12.2010
28	40 <sup>th</sup> ISTE Annual Convention	Mepco Schlenk Engineering College	02.12.2010	04.12.2010
29	National Seminar on Fuzzy Mathematics and its Applications,	Alagappa University	28.03.2008	29.08.2008
30	National Conference on Emerging Trends in Mathematical Sciences organized	Kongu Nadu Arts and Science College	29.02.2008	01.03.2008

31	Seminar- Grid Computing with Mathematica	Manonmaniam Sundaranar University, Sierra Atlantic&IEEE	09.01.2007	
32	Seminar- Fuzzy Mathematics and its applications	Alagappa University	03.03.2006	04.03.2006
33	International Conference- Nanomaterials	Mepco Schlenk Engineering College	13.07.2005	15.07.2005
34	AICTE-ISTE-STTP- Fuzzy Neural Network	Kongu Engineering College	28.11.2004	11.12.2004
35	AICTE-ISTE-STTP- Recent trends and applications of Probability, Random Process and Statistical Techniques	Mepco Schlenk Engineering College	01.11.2004	05.11.2004
36	AU FDP- Mathematical Foundation of Computer Science	Mepco Schlenk Engineering College	24.05.2004	29.05.2004
37	Workshop- Patent Awareness	Mepco Schlenk Engineering College	28.11.2003	
38	Workshop-Effective teaching Strategies	Mepco Schlenk Engineering College	27.11.2001	

**8. Short term Courses / Seminars /FDP/Workshop/Conference organized:**

Sl.No	Title of the event	Organized by	Date	
			From	To
1	Srinivasa Ramanujan mathematical Comertitions 2025	Ramco Institute of Technology	2025	
2	Workshop on Statistical tools with R Programming	Ramco Institute of Technology	20.03.2025	21.03.2025
3	Srinivasa Ramanujan mathematical Comertitions 2024	Ramco Institute of Technology	04.01.2025	
4	Hands on Training on Statistical Tool with R Programming	Hands on Training on Statistical Tool with R Programming	18.03.2024	19.03.2024

5	International Conference on Mathematical Challenges and Novel Applications (ICOMACNA-2024)	Ramco Institute of Technology, ANJAC College and SFR College	21.03.2024	22.03.2024
6	Applications of Combinatorial Objects to Graph Labeling Problems	Ramco Institute of Technology	12.04.2023	
7	International Conference on Sustainable Technology in Civil Engineering and Applied Sciences (ICSTCA-2023)	Ramco Institute of Technology	24.03.2023	25.03.2023
8	Srinivasa Ramanujan Mathematical Competition for School Students of Virudhunagar District – 2022	Ramco Institute of Technology	2022	
9	International Conference on Analysis and Number Theory 2022 (ICAN-2022)	Ramco Institute of Technology, ANJAC College and SFR College	27.10.2022	28.10.2022
10	Hands on workshop on software in Mathematics	Ramco Institute of Technology	18.07.2022	
11	International Web Conference on Smart Technologies and Applications 2022	Ramco Institute of Technology	12.03.2022	20.03.2022
12	National Web Conference on Challenges and Innovation in Engineering and Technology (NWCCIET-2021)	Ramco Institute of Technology	19.03.2021	20.03.2021
13	International Web Conference on Smart Engineering Technologies	Ramco Institute of Technology	26.06.2020	27.06.2020
14	AUFDP On Transforms and Partial Differential Equations	Ramco Institute of Technology	12.06.2017	18.06.2017

15	Two Days Workshop on Linear Algebra	Ramco Institute of Technology	27.06.2018	28.06.2018
16	AUFDP-Mathematics I	Ramco Institute of Technology	09.06.2014	15.06.2014

## 9. Online Courses

S.No	Course Title	University	Date
1.	Introduction to Differential Equations	Boston University	2015-16 Even Semester
2.	Calculus IC Coordinate systems and infinite series	Massachusetts Institute of Technology, USA	2015-16 Even Semester
3.	Linear Differential Equations	Boston University	2015-16 Even Semester
4.	Combinatorial Mathematics	Tsinghua X	2015-16 Even Semester
5.	Linear algebra: Foundation to frontiers	The University of Texas, Austin	2016-17 Odd Semester
6.	Introduction to Complex Analysis	Wesleyan University	2016-17 Even Semester
7.	Calculus IA:Differentiation	Massachusetts Institute of Technology, USA	2017-18 Odd Semester
8.	Differential Equations: 2x2 systems	Massachusetts Institute of Technology, USA	2017-18 Even Semester
9.	Calculus IB:Integration	Massachusetts Institute of Technology, USA	2017-18 Even Semester
10.	Differential Equations:Fourier Series and Partial Differential Equations	Massachusetts Institute of Technology, USA	2018-19 Odd Semester
11.	Mathematics for Machine Learning:Multivariate calculus	Imperial college,London	2018-19 Even Semester
12.	Business Applications of Hypothesis testing and Confidence Interval Estimation	Rice University	2019-20 Odd Semester
13.	Introduction to Programming with MATLAB	Vanderbilt University	2021-22

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14.	Foundations: Data, Data, Everywhere	Google	2022-23
15.	Introduction to Python	Datacamp	2022-23
16.	Data Science Math Skills	Duke University	2023-24
17.	Introductory statistics, probability and estimation	London School of Economics and Political sciences	2023-24
18.	Linear Regression with NumPy and Python	Coursera	2024-25
19.	The Data Scientist's Toolbox	Johns Hopkins University	2024-25
20.	Introduction to Mathematical Thinking	Stanford	2024-25
21.	Linear Algebra for Machine Learning & AI	Birla Institute of Technology&Science, Pilani	2025-26
22.	Numerical Methods for Engineers	The Hong Kong University of Science and Technology	2025-26
23.	An Intuitive Introduction to Probabilit	Universitat Zurich	2025-26

**10. Patents filed/awarded : 3**

**11. Membership in Professional societies:** ISTE, IACSIT

**12. Awards:** MIET Mohaboobi Mohamed Yunus Memorial National Award for Best Women Teacher for the year 2024