

BIO DATA



Name : Mr. K. Subramanian
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1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B. Sc.,	Mathematics	Madurai Kamaraj University	2004
M. Sc.,	Mathematics	Madurai Kamaraj University	2006
M. Phil.,	Mathematics	Madurai Kamaraj University	2008
SET	Mathematics	Mother Teresa University	2016

2. Professional/ Industry Experience

: (in chronological order)

Sl. No.	Designation	Institution/ Organization	Period	
			From	To
1	Lecturer	Manonmaniam Sundaranar University	25-08-2008	30-04-2009
2	Assistant Professor	Kalasalingam University, Krishnankoil	01.06.2009	25.04.2013
3	Assistant Professor	Ramco Institute of Technology, Rajapalayam	09.05.2013	31.05.2018
4	Assistant Professor (Senior Grade)	Ramco Institute of Technology, Rajapalayam	01.06.2018	Till Date

3. Research Interest: Graph Theory

4 Publications

4.1 JOURNAL PUBLICATIONS:

1. T. Manimaran, T. Selvaganesh, G. Selvaraj, K. Subramanian, S. Karthikeyan, “Strength of Vertex Irregularity of Some Product of Graphs”, *Advances in Nonlinear Variational Inequalities*, ISSN: 1092-910X, Vol.28 No.5s (2025), P. 512-520.
2. Saravanakumar R, Basari Kodi K, Selvaganesh T, Subramanian K, Saranya K, Nazek Alessa Variational Iteration Method for Solving Reaction Diffusion Equation in Oscillatory Chemical Reactions, *International Journal of Analysis and Applications*, Page 1-12, 22 (2024), 156, September 16, 2024.
3. T. Manimaran, T. Selvaganesh, K. Subramanian, G. Selvaraj, S. Karthikeyan, “Edge Irregularity Strength of Graphs on Mean Labeling”, *Library Progress International*, Vol.44 No.3, Jul-Dec 2024: P.9287-9294, July 31st, 2024.
4. T. Selvaganesh, T. Manimaran, K. Subramanian, G. Selvaraj, R. Saravanakumar, Muthukrishnan Anand published a paper entitled, "[A Note On Strongly Gorenstein X-Flat Modules](#)", *Journal of Zoology (WOS)*, Vol.45, No. S(3), 2024. Pg 82 – 86.
5. Subasree R, BasariKodi K, Saeid Jafari, Subramanian K: “Heptagonal Neutrosophic Quotient Mappings”, *Neutrosophic Sets and Systems*, Vol. 73, 35-44, Sep 2024. (SCOPUS).
6. Subasree R., Basari Kodi K., Sathikala L., Subramanian K, “A Study on various Pentapartitioned Neutrosophic Generalized Closed Sets”, *International Journal of Neutrosophic Science (SCOPUS)*, 20 (4), 235- 240.
7. Sathikala L, Basari Kodi K, and Subramanian K, “Connected and Total Vertex Covering in Graphs”, *Turkish Journal of Computer and Mathematics Education*, 2 (2021), 2180 - 2185.

4.2 CONFERENCE PUBLICATIONS

1. R. Saravanakumar, K. Basari Kodi, T. Selvaganesh, K. Subramanian, presented a paper on “A Semi-Analytical Approach to Reaction Diffusion for Oscillatory Chemical Reactions” in the *International Conference on Mathematical Challenges and Novel Applications* organized by ANJAC, RIT and SFRC on 21st and 22nd March 2024.
2. Subasree R, Basari Kodi K, Subramanian K, presented a paper on “Generalized Heptagonal Neutrosophic Set” in the *International Conference on Mathematical Challenges and Novel Applications* organized by ANJAC, RIT and SFRC on 21st and 22nd March 2024.
3. Subramanian K, Manimaran T and Selvaganesh T, presented a paper on “Mean Irregularity Strength of Graphs, in the *International Conference on Sustainable Technology in Civil Engineering and Applied Sciences 2023* organized by Ramco Institute of Technology on 24th and 25th March 2023.
4. Subramanian K and Sathikala L, presented a paper on “Dominant Neighborhood Sum of a Graph” in the *International Conference on Smart Technologies and Applications-2022* organized by Ramco Institute of Technology on 11th and 12th March 2022.

5. Subramanian K and Basari Kodi K, presented a paper on “On M-Semi-Open Set” in the *National Web Conference on Challenges and Innovation in Engineering and Technology 2021* organized by Ramco Institute of Technology on 19th and 20th March 2021.
6. Subramanian K and Sathikala L, presented a paper on “Connected and Total Vertex Coverings in Graphs” in the *International Web Conference on Smart Engineering Technologies* organized by Ramco Institute of Technology on 26th and 27th June 2020.
7. Subramanian K and Basari Kodi K, presented a paper on “On s*g closed maps on Ideal Topological Spaces” in the *National Conference on Innovations in Engineering, Science and Technology* organized by Ramco Institute of Technology on 6th and 7th March 2015.

4.3 Book/Book chapter publications

1. Dr. K. Basari Kodi, Dr. L. Sathikala, Dr. T. Manimaran, Mr. K. Subramanian, Dr. R. Subasree, Mr. T. Selvaganesh, published a book on “*Discrete Mathematics*”, in Vishnu Prints Media, ISBN: 978-81-19432-48-6.
2. Dr. K. Basari Kodi, Dr. T. Manimaran, Mr. K. Subramanian, Dr. R. Subasree, Dr. G. Selvaraj, published a book on “*Matrices and Calculus*”, in Pearson publishers, ISBN: 978-81-198-4774-7.
3. Dr. K. Basari Kodi, Dr. L. Sathikala, Dr. T. Manimaran, Mr. K. Subramanian, Dr. R. Subasree, Dr. G. Selvaraj, published a book on “*Statistics and Numerical Methods*”, in Pearson publishers, ISBN: 978-93-615-9771-8.
4. Dr. K. Basari Kodi, Dr. T. Manimaran, Mr. K. Subramanian, Dr. R. Subasree, Dr. G. Selvaraj, published a book on “Applied Calculus”, in Pearson publishers, ISBN: 978-93-713-6473-7.

5 Funded Projects Nil

Sl. No.	Title of the project	Funding Agency	Duration	Amount	Status

6 Ph.D. guidance Nil

Sl. No	Scholar name	University	Topic	Status

7 Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl. No.	Title of the event	Organized by	Date	
			From	To
1	Special Orientation Programme for Mathematics Faculty Members, BRIDGE COURSE - 1 st Batch.	Centre for Faculty Development, Anna University conducted by Department of Mathematics, Anna University Regional Centre, Tirunelveli.	05.06.2013	06.06.2013
2	One day workshop on “Scilab for Engineering Applications”.	Centre for Faculty Development, Anna University and conducted by Kamaraj College of Engineering and Technology, Virudhunagar.	08.05.2014	-
3	Seven Days Faculty Development Training Programme on MA6151-MATHEMATICS I	Centre for Faculty Development, Anna University and conducted by Ramco Institute of Technology, Rajapalayam	09.06.2014	15.06.2014
4	One day workshop on “Statistical Data Processing Using Excel and R Software”.	Department of Mathematics, Vaigai College of Engineering, Madurai.	28.11.2015	-
5	Seven Days Faculty Development Training Programme on MA6351 - Transforms and Partial Differential Equations	Centre for Faculty Development, Anna University and conducted by Ramco Institute of Technology, Rajapalayam	12.06.2017	18.06.2017
6	Two Days Workshop on Linear Algebra	Ramco Institute of Technology, Rajapalayam	27.06.2018	28.06.2018
7	Teachers Enrichment Workshop on Linear Algebra and Multivariable Calculus	National Centre for Mathematics at MEPCO Schlenk Engineering College, Sivakasi	13.05.2019	18.05.2019

Sl. No.	Title of the event	Organized by	Date	
			From	To
8	Seven Days Faculty Development Training Programme on MA8351 Discrete Mathematics	Centre for Faculty Development, Anna University and conducted by Ramco Institute of Technology, Rajapalayam	28.06.2021	03.07.2021

8 Short-term Courses/Seminars/FDP/Workshop/Conference organized: Nil

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Employability Skill Enhancement Course and Hands on Training on “Statistical Tool with R programming”	Department of Mathematics Ramco Institute of Technology, Rajapalayam	20.03.2025	21.03.2025
2.	Employability Skill Enhancement Course and Hands on Training on “Statistical Tool with R programming”	Department of Mathematics Ramco Institute of Technology, Rajapalayam	18.03.2024	19.03.2024
3.	Employability Skill Enhancement Course and Hands on Training on “Statistical Tool with R programming”	Department of Mathematics Ramco Institute of Technology, Rajapalayam	09.03.2023	10.03.2023

9 Online Courses

Sl.No	Course title	University	Date
1	Introduction to Differential Equations	Boston University	2015-16 Even Semester

Sl.No	Course title	University	Date
2	Linear Differential Equations	Boston University	2015-16 Even Semester
3	Linear algebra: Foundation to frontiers	The University of Texas, Austin	2016-17 Odd Semester
4	Introduction to Complex Analysis	Wesleyan University	2016-17 Even Semester
5	Calculus IA: Differentiation	Massachusetts Institute of Technology, USA	2017-18 Odd Semester
6	Differential Equations: 2x2 systems	Massachusetts Institute of Technology, USA	2017-18 Even Semester
7	Calculus IB: Integration	Massachusetts Institute of Technology, USA	2017-18 Even Semester
8	Differential Equations: Fourier Series and Partial Differential Equations	Massachusetts Institute of Technology, Cambridge, USA	2018-19 Odd Semester
9	Mathematics for Machine Learning: Multivariate Calculus	Imperial College, London	2018-19 Even Semester
10	Business Applications of Hypothesis Testing and Confidence Interval Estimation	RICE University	2019-20 Odd Semester
11	Mathematics for Machine Learning: Linear Algebra	Imperial College London	2019-20 Even Semester
12	Differential Equations for Engineers	The Hong Kong University of Science and Technology	2020-21 Odd Semester
13	Vector Calculus for Engineers	The Hong Kong University of Science and Technology	2020-21 Odd Semester
14	Discrete Mathematics	Shanghai Jiao Tong University	2020-21 Odd Semester
15	Transfer Functions and the Laplace Transform	Massachusetts Institute of Technology, USA	2020-21 Even Semester
16	Operations Research: an Active Learning Approach	The Hong Kong Polytechnic University	2020-21 Even Semester
17	Introduction to Differential Equations	Massachusetts Institute of Technology, USA	2020-21 Even Semester
18	Probability - The Science of Uncertainty and Data	Massachusetts Institute of Technology, USA	2020-21 Even Semester

Sl.No	Course title	University	Date
19	Introduction to Programming with MATLAB	Vanderbilt University	2021-22 Odd Semester
20	Introduction to Statistical Methods with MATLAB	Mathworks	2021-22 Even Semester
21	Optimization Onramp	Mathworks	2022-23 Odd Semester
22	Differential Equations: Linear Algebra and NxN Systems of Differential Equations	Massachusetts Institute of Technology, USA	2022-23 Even Semester
23	Data Science Math Skills	Duke University	2023-24 Odd Semester
24	Statistics 1 Part 1: Introductory statistics, probability and estimation	The London School of Economics and Political Science	2023-24 Even Semester
25	Numerical Methods for Engineers	The Hong Kong University of Science and Technology	2024-25 Odd Semester
26	Multivariable Calculus	NPTEL	2024-25 Even Semester
27	Introduction to Abstract and Linear Algebra	NPTEL	2025-26 Odd Semester
28	Basic Linear Algebra	NPTEL	2025-26 Even Semester

10. Patents filed/awarded:

1. AI-Driven Mathematical Forecasting System Using Hybrid Regression Models for Dynamic Event Prediction in Financial and Meteorological Applications published on 31.10.2025.
2. Combining blockchain and AI technologies for secure and transparent supply chain management solutions published on 07.02.2025.

11. Membership in Professional societies: ISTE member

12. Awards, Recognition & Achievements

Any others (Board of studies/Governing Council/Staff Selection/Reviewer/other duties)

Outside College Level: Acted as Chief Invigilator and conducted TNPSC Group II and IV Examinations (7 times)