


<b>Name:</b>  <b>Mr. JOSEPH THOMAS RAJAN A</b>				
<b>Designation:</b>	<b>ASSOCIATE PROFESSOR</b>			
<b>Qualification:</b>	M.sc.,M.Phil.,D.Th.,(Ph.D)			
<b>Area of specialization:</b>	GRAPH THEORY			
<b>Experience:</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	NIL		13 Years	
<b>Number of workshops / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	5		25	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>	<b>International</b>
	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>
<b>Professional Body Membership</b>	1. IEEE Membership 2. ISTE Membership 3. IAENG			
<b>Staff Achievements</b>	1.NPTEL DOMAIN (DATA SCIENCE) STAR 2.NPTEL DISCIPLINE STAR 3.NPTEL MOTIVATED LEANERS 4.NPTEL TOP PERFORMING MENTOR 5.SKILL RACK APPRECIATION AWARD			

## Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc	Mathematics	2009	UNIVERSITY OF MADRAS	71.76 %	FIRST CLASS
PG	M.Sc	Mathematics	2011	UNIVERSITY OF MADRAS	82.62 %	FIRST CLASS WITH OUTSTANDING
	M.Phil	Mathematics	2013	UNIVERSITY OF MADRAS	83.75 %	FIRST CLASS WITH DISTINCTION
PhD	Ph.D	Mathematics (Graph Theory)	PERSUING	ANNA UNIVERSITY	-	-

## Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience
Sri Sairam Engineering College	Associate Professor	01/07/2025	Till Date	9 months
Sri Sairam Institute of Technology	Assistant Professor	21/07/2014	30/06/2025	10 years 11 months
Chennai Institute of Technology	Assistant Professor	01/02/2013	31/05/2014	1 years 3 months

**Anna University Research Supervisor Ref no: NIL**

## Workshops/Seminars attended:

1. 3 Months Certified Course on “**PANCHAYAT RAJ ADMINISTRATION AND RURAL DEVELOPMENT**” Conducted by State Rural Institute of Rural Development and Panchayat Raj, Government of Tamil Nadu, Maraimalai Nagar, 603209. Reg.No. CC2025.B3.22- May 2025.
2. Participated in the Technical Workshop for NPTEL STARS held on 6<sup>th</sup> July 2025.
3. Participated in the “Three-day National level **Workshop** on MATLAB for beginners” organized by the Department of Mathematics, Srimad Andavan Arts and Science College(Autonomous) from 28.07.2021 to 30.07.2021.
4. Participated in the **Workshop** on Operations Research using R organized by the Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai held during June 18-19, 2021.

5. participated in the “Online National Workshop on Linear Algebra2020” during June 1-2, 2020 organized by the Department of Mathematics, SSN College of Engineering, Kalavakkam - 603110.

**FDP/STTP Attended:**

1. Participated in the Five-Day **FDP** on "Teaching Engineering Mathematics through PYTHON" organized by the Division of Mathematics, School of Advanced Sciences (SAS), from 17<sup>th</sup> to 21<sup>st</sup> April 2023 at Vellore Institute of Technology, Chennai.
2. Participated in the Six-Day **FDP** on "Linear Algebra and Partial Differential Equations" conducted ONLINE MODE by the Department of Mathematics at Sri Sairam Engineering College, Chennai, from 11<sup>th</sup> to 16<sup>th</sup> July 2022.
3. Participated in the **FDP** in the titled "Advanced Latex" conducted by the Division of Mathematics, School of Advanced Sciences (SAS), during 27<sup>th</sup> to 29<sup>th</sup> June 2022 at Vellore Institute of Technology, Chennai.
4. Participated in the Two-Week **FDP** on “Research Advances in Mathematics and its Applications” organized by the Department of Mathematics, Sathyabama Institute of Science and Technology, Chennai, from August 2 to August 14, 2021
5. Participated in Online International **FDP** on "Recent Trends in Mathematics" organized by PG and Research Department of Mathematics, V.O. Chidambaram College, Thoothukudi from 21<sup>st</sup> to 25<sup>th</sup> June 2021.
6. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online **FDP** on "Organizational Behaviour" from 9<sup>th</sup> to 13<sup>th</sup> November 2020 at International Management Institute - Kolkata.
7. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online **FDP** on "Leadership & Excellence" from 7<sup>th</sup> to 11<sup>th</sup> September 2020 at PDPM Indian Institute of Information Technology, Design & Manufacturing, Jabalpur.
8. Participated in Five Days Online International **Faculty Development Programme** on “Applications and Techniques in Mathematics” held from 20<sup>th</sup> to 24<sup>th</sup> July 2020.
9. Participated in Online **FDP** on "Theory of Computation" organized by the Department of Computer Science and Engineering at Sri Sairam Institute of Technology, Chennai, from 22<sup>nd</sup> to 26<sup>th</sup> June 2020.
10. Completed A Five Day Online International **Faculty Development Programme** on “Recent Trends In Applied Mathematics” held from 02<sup>nd</sup> to 6<sup>th</sup> June 2020 organised by the Department of Mathematics at, SNS College of Technology, Coimbatore.
11. Completed Two Weeks **Faculty Development Programme** on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS" organized by Teaching Learning Centre, Ramanujan College, University of Delhi Sponsored by MHRD Pandit Madan Mohan Malviya National Mission on

Teachers and Teaching, from April 20 - May 06, 2020

12. Participated in 10 Hours of **Faculty Development Program** on Leadership Skills (Online Live FDP) conducted by ICT Academy on 07 Feb 20.

### **Workshop / Conferences / FDP Organized:**

1. Conducted National Level Mathematics Contest “Mathfest 2018” on 16.03.2018.

### **Symposium Attended: Nil**

### **Conference Attended:**

1. Presented a paper on ‘Real-Time Dynamic Optimization: A Novel Generative AI Framework for Sub-Second Adaptive Control’ in IEEE 4<sup>th</sup> International Conference for Advancement in Technology (ICONAT) during 19<sup>th</sup> to 21<sup>st</sup> September 2025.
2. Participated in the **International Conference** on “Theoretical Computer Science and Discrete Mathematics” held during 02-04 December 2021 organized by the Department of Mathematics, Sri Sivasubramaniya Nadar College of Engineering, Chennai, Tamil Nadu, India.
3. Presented a research paper on ‘Domination on Vertex Duplication’ at the UGC Sponsored **National Conference** on Emerging Trends in Applications of Mathematics to Science and Technology held at Auxilium College, Vellore during 8-9, December 2011.
4. Participated in the **National Conference** on Recent Trends in Discrete Mathematics held at Nazareth Margoschis College, Tirunelveli during 9-11, December 2010.

### **Patent:**

1. Blockchain-Enabled Computer Device For Enhancing Computer Network Safety.
2. Data Labeling Assistant AI Device.

### **Journal Publications:**

1. S Manochandar, Divya Priya B Sharma, Sapna , Joseph Thomas Rajan A, Farheen Ahmad. (2024). NEUROMARKETING: UNDERSTANDING CONSUMER DECISION-MAKING THROUGH NEUROSCIENCE, Decision Making: Applications in Management and Engineering, Volume 7, Issue 1, 329-345.
2. Josephthomasrajan, Vedavalli S, Varsha , Sharmili K, Keerthana, Nilavezhil Oviya V **Real-Time Dynamic Optimization: A Novel Generative AI Framework for Sub-Second Adaptive Control, 2025 IEEE 4th International Conference for Advancement in Technology (ICONAT) Goa, India. Sep 19-21, 2025**

### **Books / Book Chapters:**

1. Computational Mathematics and its Applications in Modern Science (ISBN 978-93-6786-499-9)

## **Awards:**

1. NPTEL DOMAIN (DATA SCIENCE) STAR
2. NPTEL DISCIPLINE AWARD
3. NPTEL MOTIVATED LEARNERS
4. NPTEL TOP PERFORMING MENTOR
5. SKILL RACK APPRECIATION AWARD

**Startup: NIL**

**Resource Person: NIL**

## **Online Courses:**

Completed all 8 Models in NITTTR (National initiative for Technical Teachers Training) conducted by AICTE(All India Council for Technical Education).

- Module 1: Orientation Towards Technical Education and Curriculum Aspects
- Module 2: Professional Ethics and Sustainability
- Module 3: Communication Skills, Modes and Knowledge Dissemination
- Module 4: Instructional Planning and Delivery
- Module 5: Technology Enabled learning and Life-long Self-Learning
- Module 6: Students Assessment and Evaluation
- Module 7: Creative Problem solving, innovation and Meaningful R&D
- Module 8: Institutional management and Administrative Procedure.

## **Completed NPTEL Courses**

- Higher Engineering Mathematics (Elite)
- Discrete Mathematics – IITB (Elite)
- Advanced Graph Theory (Elite + Silver)
- Foundations Of R Software (Elite + Silver)
- Python for Data Science
- Probability for Computer Science (Elite)
- Introduction to Machine Learning (Elite)
- Learning Analytics Tools (Elite)
- Advanced R Programming for Data Analytics in Business (Elite)
- Data Analytics with Python (Elite + Silver)
- Artificial Intelligence: Knowledge Representation and Reasoning
- Linear programming and its applications to computer science (Elite + Silver)

## Subjects Handled:

- Matrices and Calculus
- Transform and Partial Differential Equations
- Discrete Mathematics
- Probability and Queuing Theory
- Probability and Statistics
- Probability and Random Process
- Statistics and Numerical Methods
- Statistics and Linear Algebra
- Linear Algebra and Its Applications
- Probability and Statistical Modelling
- Graph Theory and its Applications
- Numerical Methods
- Linear Algebra and Partial Differential Equations
- Optimization Techniques
- Business Optimization Methods

## Computer and Technical Skills:

- R-Programming
- MATLAB
- MATHEMATICA
- C programming
- Latex
- MS Office