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| Name: Mr. JOSEPH THOMAS RAJAN A |  | | |
| Designation: | ASSISTANT PROFESSOR | | |
| Qualification: | M.sc.,M.Phil.,D.Th.,(Ph.D) | | |
| Area of specialization: | GRAPH THEORY | | |
| Experience: | Industrial Experience | Teaching Experience | |
| | NIL | 13 Years | |
| Number of workshops / FDP attended: | Number of Workshops | Number of FDPs | |
| | 5 | 25 | |
| Publications: | Conference | Journal | |
| | National | International | National |
| | 0 | 1 | 1 |
| Professional Body Membership | 1.IEEE Membership 2. ISTE Membership 3. IAENG | | |
| Staff Achievements | 1.NPTEL DISCIPLINE STAR 2.NPTEL MOTIVATED LEANERS 3.NPTEL TOP PERFORMING MENTOR 4.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 | Assistant Professor | 01/07/2025 | Till Date | 4 months |
| Sri Sairam Institute of Technology | Assistant Professor | 21/07/2014 | 30/06/2025 | 10 years 11 months |
| Chennai Institute of Technology | Assistant Professor | 21/08/2012 | 31/05/2014 | 1 years 9 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 6th 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 17th to 21st 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 11th to 16th July 2022.
3. Participated in the **FDP** in the titled "Advanced Latex" conducted by the Division of Mathematics, School of Advanced Sciences (SAS), during 27th to 29th 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 21st to 25th June 2021.
6. Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online **FDP** on "Organizational Behaviour" from 9th to 13th November 2020 at International Management Institute - Kolkata.
7. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online **FDP** on "Leadership & Excellence" from 7th to 11th 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 20th to 24th 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 22nd to 26th June 2020.
10. Completed A Five Day Online International **Faculty Development Programme** on “Recent Trends In Applied Mathematics” held from 02nd to 6th 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 4th International Conference for Advancement in Technology (ICONAT) during 19th to 21st 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, Issue1,329-345.

Books / Book Chapters:

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

Awards:

1. NPTEL DISCIPLINE AWARD
2. NPTEL MOTIVATED LEARNERS
3. NPTEL TOP PERFORMING MENTOR

4. 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 – IIITB (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