



Sri Ramakrishna Institute of Technology

(An Autonomous Institution)


(Accredited by NAAC with "A" Grade)

Pachapalayam, Perur Chettipalayam, Coimbatore – 641 010

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Faculty Profile

Full name with Qualification, Designation and Department: Dr. S. Kalyani M.Phil., Ph.D., Assistant Professor Department of Science & Humanities					
Date of birth	:	21.03.1983	Gender	:	Female
Nationality	:	Indian	Marital status	:	Married
Address for correspondence	:	5/560, Annai Velankanni Nagar, Postal Colony, Coimbatore - 641 010	Permanent address	:	5/560, Annai Velankanni Nagar, Postal Colony, Coimbatore - 641 010
Mobile no	:	98940 45042	e-mail (official)	:	kalyani.sh@srit.org
Landline	:	-	e-mail (personal)	:	kalyanikarthik27@gmail.com
Date of joining	:	01.06.2016	Post of joining	:	Assistant Professor
No of promotions since D.O.J	:	Nil	Present post	:	Assistant Professor
Present pay scale	:	Rs. 15,600/- 39,100	Gross pay	:	Rs. 36,194/-
Employee ID	:	TN296	Bank account No. (Salary credited)	:	500101010981092
P.F. No	:	TN/CBE/56764/774	Group Insurance No	:	AG00059675000103
PAN Number	:	BHQPK2694L	Aadhar Number	:	886701986430
AICTE ID	:	1-13203827506	AICTE Institution ID	:	1-7841521

Educational Qualification

Degree	Specialization	Year of Passing	Name of the College	Name of the University	Class Obtained
UG	Mathematics	2003	PSGR Krishnammal College for Women, Coimbatore.	Bharathiar University, Coimbatore	First with Distinction
PG	Mathematics	2005	PSGR Krishnammal College for Women, Coimbatore.	Bharathiar University, Coimbatore	First with Distinction
	Fluid Dynamics	2006	PSGR Krishnammal College for Women, Coimbatore.	Bharathiar University, Coimbatore	Commendable
Ph.D	Fuzzy Optimization	2015	Bharathiar University, Coimbatore	Bharathiar University, Coimbatore	Commendable -
Others					

Registration for Ph.D. with area of interest: Fuzzy Mathematics

Year of Ph.D. Registration: 2012

Year of Ph.D. Completed: 2015

Thesis Title: Studies on Linear Fractional Transportation Problems under Fuzzy Environment

Supervisor Recognition Number:

Ph.D. Scholar Details

S.No.	Name of the scholar	Registration details	College	Status
Nil				

Academic Experience

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Ramakrishna Institute of Technology	Assistant Professor	01.06.2016	-	7	4	20
Easa College of Engineering and Technology, Navakkarai, Coimbatore	Assistant Professor	25.07.2011	30.10.2013	2	3	5
Department of Applied Mathematics, Bharathiar University, Coimbatore.	Guest Lecturer	2.09.2010	29.04.2011	0	7	27
SRM University, Chennai.	Lecturer	6.08.2008	23.05.2009	0	9	17
Hindustan College of Engineering and Technology, Coimbatore.	Lecturer	12.09.2006	3.01.2008	2	4	20
Total				13	5	29

Industrial Experience

Name of the Organisation	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
Nil							
Total							

Courses Handled

Academic Year	Semester	Course Code	Course Name	Type of Course (T / L)	Pass Percentage
2023-24	I	20MHG01	Calculus and Linear Algebra	T	
2023-24	III	20MHG06	Probability & Statistics	T	
2022-23	IV	20MHG04	Probability & Random Process	T	92%
2022-23	II	20MHG02	Differential Equation and Complex Variables	T	89%

2022-23	III	20MHG03	Probability & Statistics	T	93%
2022-23	I	20MHG01	Calculus and Linear Algebra	T	85%
2021-22	IV	20IT005	Discrete Structures	T	71%
2021-22	II	20MHG02	Differential Equation and Complex Variables	T	83%
2021-22	III	20MHG03	Transforms and Partial Differential Equation	T	87%
2021-22	I	20MHG01	Calculus and Linear Algebra	T	90%
2020-21	IV	UICM006	Probability and Random Process	T	100%
2020-21	II	20MHG02	Differential Equation and Complex Variables	T	96%
2020-21	III	UICM006	Probability and Random Process	T	100%
2020-21	I	20MHG01	Calculus and Linear Algebra	T	100%
2019-20	IV	UICM006	Probability and Random Process	T	100%
2019-20	II	UICM002	Engineering Mathematics II	T	100%
2019-20	IV	UICM004	Probability and Random Process	T	75%
2019-20	I	UICM001	Engineering Mathematics I	T	95%
2019-20	III	UICM003	Transforms and Partial Differential Equation	T	87%
2018-19	II	UICM002	Engineering Mathematics II	T	64%
2018-19	IV	UICM004	Probability and Statistics	T	56%
2018-19	I	UICM001	Engineering Mathematics I	T	95%
2018-19	VII	CS6704	Resource Management Technique	T	80%
2018-19	VII	CS6704	Resource Management Technique	T	84%
2017-18	II	UICM002	Engineering Mathematics II	T	99%
2017-18	IV	UICM006	Probability and Queuing	T	42%

			Theory		
2017-18	IV	UICM006	Probability and Queuing Theory	T	49%
2017-18	I	UICM001	Engineering Mathematics I	T	93%
2017-18	I	PICM003	Statistics for Business Research	T	100%
2016-17	IV	MA3251	Statistics & Numerical Methods	T	67%
2016-17	IV	MA3251	Statistics & Numerical Methods	T	71%
2016-17	II	MA8251	Mathematics II	T	51%
2016-17	I	MA41459	Statistical methods for Engineers	T	93%

Projects Guided

Academic Year	Semester	Project Title	UG / PG
Nil			

Publications

Publications	SCI / Scopus / Web of Sciences	Others
Journal	3	5
Conferences	1	5

Journal Publications (IEEE format)

- S.Kalyani, S.Nagarani, "A fully fuzzy transportation problem with hexagonal fuzzy number", AIP Conference Proceedings, 2261, 030078, 2021.
- S. Kalyani, IoT Based Smart System for Avoidance of Fire Accidents on Running Buses", International Journal of Science Engineering and Advanced Technology, Vol. 8, Issue 8, August -2020.
- S. Kalyani, "IoT Based Smart System for Avoidance of Fire Accidents on Running Buses", International Journal of Science Engineering and Advance Technology, Volume 8, 2020.
- Hariharan, Immanual, S. Nagarani S. Kalyani, "Smart Agricultural Weed Removal System", International Journal of Pure & Applied Mathematics, Volume 120. No 6, 2018.

- S.Kalyani, T.L.Yookesh, “Solutions of fuzzy volterra delay integral equations by using adomine decomposition method”, IJSRR, vol 7, 5 2018.
- S.Kalyani, S.Nagarani, Devendra kumar, Maragatham.L, “An intelligent reliable signal transmission by optimal allocation of resources in OFDMA for E-Learning educational system”, Perspectivas em Ciencia da Informacao, Vol 22, 5, 80-98, 2017.
- Kalyani S, Nagarani & T.L.Yoogesh, “A Soft Set Approach For Selecting The Best Laptop Under Fuzzy Environment” IJCMS, .Volume 6, Issue 2, 2017.
- Kalyani S, Nagarani S and, Maragatham L “Multi Criteria Decision Making for selecting the Best Laptop”, International Journal of Control Theory and Applications, 9 (36), 2016, pp. 437 – 441.
- Kalyani S, Maragatham L and Nagarani S, “An Algorithm for Linear Fuzzy Fractional Transportation Problem”, International Journal of Engineering Technology, Management and Applied Sciences , October 2016, Volume 4, Issue 10, ISSN 2349 – 4476.

Conference Publications (IEEE format)

- S. Kalyani, Solution of unbalanced transportation problem under fuzzy environment, International Conference on Recent Trends in Engineering, Science and Management, Er. Perumal Manimekalai College of Engineering, Hosur 2023.
- S. Kalyani, Fuzzy transportation with Neutrosopic numbers, International virtual Conference on Progress in Mathematics towards Industrial Applications (PMTIA-2022), SRMIST, Ramanathapur, Chennai, 2022..
- S. Kalyani, S. Nagarani, S. Anne Susan, “A fuzzy unbalanced transportation problems with octagonal fuzzy numbers”, International Conference on Recent Developments in Mathematics, organized by Canadian University, Dubai, UAE, 2022.
- S. Kalyani, An interactive structure for optimizing the transportation cost, National Conference on Advances in Science, Humanities and Technology, 2019.
- Kalyani S, Nagarani & T.L.Yoogesh, “A Soft Set Approach For Selecting The Best Laptop Under Fuzzy Environment”, International Conference on Latest Concepts in Science, Technology and Management, 2017.
- Kalyani S, Maragatham L and Nagarani S, “An Algorithm for Linear Fuzzy Fractional Transportation Problem”, 6th International Conference on Innovative Research in Engineering Science and Management, 2016.

Books / Book Chapters (IEEE format)

- N Soms, S Kalyani, S Nagarani, M Rohini, S Oswalt Manoj, Industrial Internet of things and Industry 4.0: A learner's perspectives toward quantum technologies, Quantum Computing and Artificial Intelligence: Training Machine and Deep learning, 2023.

Sponsored Research

Project Title	Funding Agency	Amount Rs.	Duration
Nil			

Consultancy

S. No.	Organization/ Agency	Nature of Work	Amount in Rs.	Year
Nil				

Workshops / Seminars attended**Faculty Development Program attended (from recent)**

1. Participated in NPTEL FDP on “Laplace Transform” organized by Indian Institute of Technology 4 week course Aug-Sep 2023.
2. Participated in 5 days FDP on “Application of Artificial Intelligence on VLSI and Communication Technology”, organised by Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur from March 7 – 11, 2022.
3. Participated in 5 days FDP on” Emerging Technologies in Artificial Intelligence, Data Science and Cyber Security”, organised by Amity Institute of Information Technology, Amity University Rajasthan, from July 18 - 22, 2022.
4. Participated in 14 days FDP on “Research Advances in Mathematics and its Applications”, organised by Sathyabama Institute of Science and Technology from 2.8.2021 -14.8.2021.
5. Participated in 5 days FDP on “Statistics Using R-Programming”, organised by Kongu Engineering College, Erode, from 5.10.2020-9.10.2020.
6. Participated in 5 days FDP on “Applications of Mathematics in Engineering”, organised by KPR Institute of Technology, Coimbatore, from 27.7.2020-31.7.2020.
7. Participated in 3 days FDP on “Descriptive Statistics through R-Programming”, organised by KPR Institute of Technology, Coimbatore from 26.5.2020 – 28.5.2020.
8. Participated in 2 days FDP on “Innovative Approaches in Mathematics- Lecture Series II”, organised by Sree Saraswathi Thyagaraja College, Pollachi, 13.5.2020 – 14.5.2020.

9. Participated in a FDP on “Connected World – a Reality with IoT”, organised by Sri Ramakrishna college of Arts & Science for Women on 20.05.2020.
10. Participated in a FDP on “Writing Book Chapter in pearson”, organised by Sri Ramakrishna college of Arts & Science for Women on 15.05.2020.
11. Participated in a FDP on “Neuro Linguistic Programming Tchniques for Teaching Excellence”, organised by Sri Ramakrishna college of Arts & Science for Women on 16.05.2020
12. Participated in a FDP on “Documentation of Graph using Latex”, organised by C Abdul Hakeem college of Engineering and Technology on 13.05.2020.
13. Participated in a FDP on “Real Life Applications of Fuzzy Mathematics” organised by St. Peter’s Institute of Higher Education and Research, Chennai on 22.05.2020.
14. Participated in a FDP on “Fuzzy Logic”, organised by Kristu Jayanti College on 09.05.2020.
15. Participated in a FDP on “Equip your Technological skills during Quarentine”, organised by P.K.R. Arts College for Women on 24.4.2020-1.5.2020.
16. Participated in a FDP on “Introduction to Abstract and Linear Algebra” organised by NPTEL – AICTE during Aug-Oct 2019.
17. Participated in a FDP on “MA8151-Engineering Mathematics – I”, organised by Center for Faculty Development, Anna University, Dindugul from 17.6.2019 to 1122.6.2019.
18. Participated in a FDP on “Outcome based pedagogic principles for effective teaching”, organised by NPTEL – AICTE during Aug-Oct 2018.
19. Participated in a FDP on “Introduction to Operations Research”, organised by NPTEL – AICTE during Aug-Oct 2018.
20. Participated in a Short term course on “Optimization Techniques with Engineering Applications through ICT” organised by AICTE from 10.12.2018 to 14.12.2018.

Events Organized (from recent)

Conference

FDP

- Organized a 3 days FDP on Signals & Systems at Sri Ramakrishna Institute of Technology from 20.07.2017 – 22.07.2017.

- Organized a 3 days FDP on Theoretical Foundations of Computer Science at Sri Ramakrishna Institute of Technology from 20.04.2017 – 22.04.2017.
- Organized a 2 days FDP on Applied Operations Research at Sri Ramakrishna Institute of Technology from 06.04.2017 – 07.04.2017.
- Organized a 4 days FDP on Random Process & Queueing Theory at Sri Ramakrishna Institute of Technology from 19.12.2016 – 22.12.2016.

Workshops

- Organized a workshop on Design Thinking on 23.01.2023.
- Organized a workshop on Design Thinking on 12.02.2022.
- Organized a workshop on One Day Workshop on Vermiculture on 23.04.2022.
- Organized a workshop on Robotic Manipulators Forward and Inverse Kinematics on 04.07.2020..
- Organized a workshop on Optimization Techniques using Solvers on 26.07.2019.
- Organized a workshop on Optimization Techniques using Solvers on 09.02.2019.

Seminars

- Organized a seminar on World Students Day 2023 on 17.10.2023
- Organized a seminar on Gender Equality on 11.10.2023
- Organized a seminar on Differential Equations in Real Life on 26.05.2023
- Organized a seminar on SAP Industry Specific solution & Product Development and Market Requirements on 20.02.2022
- Organized a seminar on Applications of Matrices and Calculus on 27.01.2022
- Organized a seminar on Women in IT Industry on 29.04.2021
- Organized a seminar on Landslide Susceptibility Modeling by Remote Sensing on Arc GIS Platform on 22.12.2020
- Organized a seminar on Mathematical Modeling & Simulation for Societal Needs : An Integration of Science, Technology & Engineering on 22.10.2020
- Organized a seminar on Experiment and Computation in selection of materials for various applications on 29.09.2020
- Organized a seminar on Mathematical Foundations for AI and Machine Learning on 25.07.2020

- Organized a seminar on Food Processing Business Opportunities on 05.07.2020
- Organized a seminar on Linear Programming Problems: An Introduction and Applications on 20.06.2020

Online Courses Completed

Sl. No.	Title	Platform
1	Laplace Transform	NPTEL
2	Use SurveyMonkey to Create a Survey and Analyze Results	Coursera
3	Creating a Budget with Microsoft Excel	Coursera
4	Improving Content Mastery with Quizlet	Coursera
5	Use Canva to Create Desktop and Mobile-friendly Web Pages	Coursera
6	Create a Project Management Tracker using Google Sheets	Coursera
7	Business Analysis & Process Management	Coursera
8	Design a Client Welcome Kit using Canva	Coursera
9	Create a Profile and Network on LinkedIn	Coursera
10	How to Slice Web Pages in Adobe Photoshop	Coursera
11	Custom Reports in Google Analytics	Coursera
12	Matrix Algebra for Engineers	Coursera
13	How to Teach Online Effectively	Great Learning Academy
14	Video Editing Basics	Great Learning Academy
15	Build Data Analysis tools using R and DPLYR	Coursera
16	Automating Team Communication with Google Sheets and Apps Script	Coursera
17	Custom Attribution Modeling with Google Analytics	Coursera
18	Building Candlestick Charts with Google Sheets	Coursera
19	Business Operations Support in Google Sheets	Coursera
20	Build a Full Website using WordPress	Coursera
21	Create a Business Marketing Brand Kit Using Canva	Coursera
22	Building Digital Media using Graphic Design in Google Slides	Coursera

23	Building Custom Regional Reports with Google Analytics	Coursera
24	Gmail: The Foundation To Accessing Google Apps	Coursera
25	Create a Google Ads Search Campaign	Coursera
26	Compare Stock Returns with Google Sheets	Coursera
27	Create Informative Presentations with Google Slides	Coursera
28	Foundations of Virtual Instruction	Coursera
29	Develop a Company Website with Wix	Coursera
30	Moralities of Everyday Life	Coursera
31	Logic for Economists	Coursera
32	Analyzing Market Attractiveness Using Creately	Coursera
33	Introduction to Ordinary Differential Equations	Coursera
34	Principal Component Analysis with NumPy	Coursera
35	How to Write a Resume (Project-Centered Course)	Coursera
36	The Science of Success: What Researchers Know that You Should know	Coursera
37	Tweet Emotion Recognition with TensorFlow	Coursera
38	Introduction to Computers and Office Productivity Software	Coursera
39	Welcome to Game Theory	Coursera
40	Using Google Forms to Analyze User Research Data	Coursera
41	Images and Links in HTML	Coursera
42	Improving Math Engagement with Prodigy	Coursera
43	Bonds and Fixed Income Mathematics	Coursera
44	Building a Calculator using C# in Visual Studio	Coursera
45	Introduction to CSS in Web Development	Coursera
46	Calculating Descriptive Statistics in R	Coursera
47	Java Primitive Types to Calculate Expenses	Coursera
48	Business Operations Support in Google Sheets	Coursera
49	Stochastic processes	Coursera

50	Portfolio Diversification using Correlation Matrix	Coursera
51	Internet History, Technology, and Security	Coursera
52	Automating Team Communication with Google Sheets and Apps Script	Coursera
53	Business English Certificate Preliminary	Cambridge
54	Introduction to Abstract and Linear Algebra	NPTEL
55	Outcome based pedagogic principles for effective teaching	NPTEL
56	Introduction to Operations Research	NPTEL

Awards and Recognitions Secured : Nil

Self-appraisal

Major Strengths : Sincere in allotted task, Honest, Dedicated.

Major Weakness: Sensitive, Emotional.



Signature