Name: Dr. P. R. Thiripura Sundari

Qualification: M. Sc., M.Phil., M.E(SEOR),Ph.D, (SET)

Designation: Assistant Professor

Previous Experience: UG:25 years PG:16 years (M.E./MCA/MBA)

Area of Specialization: Operations Research, Stochastic Processes &

Number Theory

Email – ID: thiripurasundari_pr@ethirajcollege.edu.in

WORKSHOPS

S. No.	Organized by	State/National/ International	Topic	Date(s)
1	IIT Madras	National	NPTEL – Linear Algebra for Computer Science and Machine Learning	19/11/2022 & 20/11/2022
2	IIT Madras	National	NPTEL – Optimization Theory and Algorithms	20/08/2022 & 21/08/2022
3	IIT Madras	National	NPTEL-Interactive Tools for Energized and Engaged Classes	06/08/2022
4	Saveetha School of Engineering	National	Introduction to R Language	28/05/2022
5	VIT University, Chennai	National	Python Workshop on Engineering Mathematics	02/04/2022
6	VIT University, Chennai	National	Graph Theory using Open Source Software – 'SAGE & R'	05/03/2022
7	Central University of Tamil Nadu	National	Workshop on Statistical computing using R	15/09/2021 to 17/09/2021
8	Sri Krishnaswamy College for Women	National	Decision Support System and Spectral Graph	10/08/2021 to 11/08/2021
9	VIT University, Chennai	National	Workshop on Algebra abd Geometry using SAGE	07/08/2021
10	Loyola College, Chennai	National	Workshop on Mathematical Analysis (Online)	28/06/2020 to 30/08/2020

11	VIT University, Chennai	National	Matlab Workshop on Fuzzy Optimization Algorithms	22/08/2019
12	VIT University, Chennai	National	One Day Workshop on Structural Equation Modeling (SEM) using AMOS and its applications	12/08/2017
13	VIT University, Chennai	National	Two Days National Workshop on Structural Equation Modeling (SEM) using AMOS and its applications	09/08/2014 to 10/08/2014
14	Anna University, Chennai	International	International workshop on Recent Trends in Stochastic Modelling and Mathematical Finance	22/12/2011 to 24/12/2011
15	DMI College of Engineering, Chennai	National	Mission 10X workshop	11/07/2010 to 15/07/2010
16	Sathyabama University, Chennai	National	National Workshop on Applications of Logic	22/10/2009 to 24/10/2009
17	Anna University, Chennai	National	One day workshop on Trends in Operations Research and Applications	23/12/2008

CONFERENCESATTENDED/PRESENTEDPAPER

S. No.	Organized by	State/National/ International	Participated/ Presented	Title	Date(s)
1	Amrita School of Engineering, Coimbatore	International Conference on graph Theory and Its Applications	Presented	On Some Graph Operations and Related Applications	11/12/2008 To 13/12/2008
2	MEPCO Schlenk Engineering College, Sivakasi	International Conference on Emerging Trends in Mathematics and Computer Applications	Presented	On the Mean Production rate Analysis of a transfer – line production System with a rework machine	16/12/2010 To 18/12/2010
3	VIT University, Chennai	National Conference on Recent Trends in Mathematical Computing	Presented	Analysis of Inventory Optimization using Genetic Algorithm and Simulated Annealing	23/08/2013
4	VIT University, Chennai	International Symposium on Big Data and Cloud Computing Challenges	Presented	Design and Analysis of a Non Linear Optimization Inventory model for Uncertain Quantity	12/03/2015 to 13/03/2015

5	VIT University, Chennai	International Conference on Mathematical Computer Engineering	Presented	Design of Multi Product Inventory Model with Stochastic Replenishment and Fuzzy Demand	14/12/2015 to 15/12/2015
6	SA Engineering College, Chennai	National Conference on Emerging Trends in Mathematical Sciences	Presented	Non Linear Inventory Optimization Model for Stochastic Replenishment and Fuzzy Demand	22/12/2016
7	SSN College of Engineering, Chennai	International Conference on Mathematical Methods, Modeling and Simulation in Chemical Sciences	Presented	Non Linear Inventory Optimization Model for Stochastic Replenishment and Fuzzy Demand	13/12/2018 to 14/12/2018
8	Saveetha Institute of Medical and Technical Sciences, Chennai	National Conference on Advances in Science, Humanities and Technology	Presented	Non Linear Inventory Optimization Model for Stochastic Replenishment and Fuzzy Demand	13/03/2020 to 14/03/2020
9	DMI College of Engineering, Chennai	National Conference on Emerging Techniques in Science and Humanities	Presented	Reverse Supply Chain Inventory Management with Remanufacturing of Multiple Products	16/12/2021 to 17/12/2021
10	Ethiraj College for Women, Chennai	Two Day International Conference on Indian Contribution toMathematics – Ancient & Modern	Presented	Mathematics and Plant Growth	13/10/2022 & 14/10/2022

SEMINARS

S. No.	Organized by	State/national/ international	Topic	Date(s)
1	DMI College of Engineering, Chennai	National	National Seminar on Research Areas in Image processing	18/09/2009 to 19/09/2009
2	Rajalakshmi Engineering College, Chennai	National	AICTE sponsored National Seminar on Number Theory and Cryptography	05/08/2010 to 06/08/2010
3	DMI College of Engineering, Chennai	National	National Seminar on Cryptography and Its Applications	10/12/2010

4	Anna University of Technology, Thiruchirapalli	National	Two days National Seminar on Computational Optimization	20/04/2011 to 21/04/2011

CERTIFICATECOURSES /VALUEADDEDCOURSES

S. No.	Offered by	Topic	Duration
1	Swayam-NPTEL	Regression Analysis	12 weeks
2	Swayam-NPTEL	Introduction to Machine Learning	12 weeks
3	Commonwealth of Learning	Introduction to Micro learning	1 week (OE week)
4	Commonwealth of Learning	Understanding Open Educational Resources	1 week (OE week)
5	Commonwealth of Learning	Universal Design for Learning	1 week (OE week)
6	Swayam-NPTEL	Essentials of Data Science with R Software-2 Sampling Theory and Linear Regression Analysis	12 weeks
7	Swayam-NPTEL	Python for Data Science	4 weeks
8	Swayam-NPTEL	Operations Research	8 weeks
9	Swayam-NPTEL	Laplace Transform	4 weeks
10	Swayam-NPTEL	Descriptive Statistics with R Software	8 weeks

JOURNALPUBLICATIONS

S.No.	JOURNALNAME	UGC /SCI/ SCIE/ WOS	ISBN/ISSNNUMBER	REFERENCE	DATE OFPUBLICATION /DOI
1	Electronic Notes in Discrete Mathematics, Elsevier	SCI	ISSN: 1571-0653	V. Yegnanarayanan, **P.R. ThiripuraSundari**and T. Padmavathy, "On Some Graph Operations and Related Applications", Elsevier, Electronic Notes in Discrete Mathematics 33 (2009) 123-130.	2009

2	ARPN Journal of Engineering and Applied Sciences	Scopus	ISSN 1819-6608	**ThiripuraSundari P R** and Vijayalakshmi C, "Design And Analysis of a Non Linear Optimization Inventory Model for Uncertain Quantity, 10 (11), 4882-4887, ARPN Journal of Engineering and Applied Sciences (Scopus Indexed),ISSN 1819-6608.	2015
3	Global Journal of Pure and Applied Mathematics	Scopus	ISSN 0973-1768	**ThiripuraSundari P R** and Vijayalakshmi C, "A Comprehensive Review of Closed Loop Supply Chain", Global Journal of Pure and Applied Mathematics (Scopus Indexed), ISSN 0973-1768; (2016); Volume 12, Issue 4, pages 2785-2796.	2016
4	Journal of Pure & Applied Mathematics	Scopus	ISSN: 1311-8080	**ThiripuraSundari P R** and Vijayalakshmi C, "Inventory Management in Reverse Supply Chain with Remanufacturing of Multiple Products using Multiple Collection sites", International Journal of Pure & Applied Mathematics, (Scopus Indexed),Volume 109, Issue 7 (2016), pages 135-142.	2016
5	Solid State Technology	Scopus	ISSN 0038-111X	**ThiripuraSundari P R** and Vijayalakshmi C, "Non Linear Inventory Optimization Model for Stochastic Replenishment and Fuzzy Demand", Solid State Technology (Scopus Indexed).Volume 63, Issue 6 (2020), pages 5641-5653.	2020
6	Handbook of Intelligent computing and Optimization for Sustainable Development	Scopus	ISBN:9781119 791829	**ThiripuraSundari P R** and Vijayalakshmi C, "Implementation of Non Linear inventory Optimization for Multiple Products", Handbook of Intelligent computing and Optimization for Sustainable Development, Scrivener Publishing, Volume , pages 447-459. (Book Chapter)	2022

FDP/STTP

S. No.	Organized by	State/National /International	Topic	Date(s)
1	VIT University, Chennai	National	Advanced LATEX	27/06/2022 to 29/06/2022

2	JP College of Arts and Science, Thenkasi	National	Mind Warming and Best Motivational Skill for Next Generation Teachers	10/06/2021 & 11/06/2021
3	DMI College of Engineering, Chennai	State	Overview of Outcomes and CO-PO Mapping- Margdharsan	27/03/2021
4	St. Joseph's Institute of Technology	National	Recent Advances in Graph Theory and Neural €networks	14/07/2020 to 16/07/2020
5	Kumaraguru College of Technology, Coimbatore	International	Mathematical Modeling for Data Analytics and Engineering	29/06/2020 to 05/07/20
6	K.Ramakrishnan College of Engineering, Coimbatore	National	Techniques and Applications in Teaching Engineering Mathematics.	10/06/2020 to 11/06/2020
7	St.Francis de Sales College, Bangalore.	State	Five Day Online FDP ON Quality Improvement :Online Teaching, Learning and Assessment	05/06/2020 – 08/06/2020
8	Sacred Heart College , Vellore	International	Introduction to Machine Learning	29/05/2020
9	Rajalakshmi Institute of Technology, Chennai	State	Faculty Development Training Programme Algebra and Number Theory	12/06/2019
10	Rajalakshmi Institute of Technology, Chennai	State	Faculty Development Training Programme Probability and Random Processes	26/12/2017
11	Anna University, Chennai	State	Faculty Development Training Programme (FDTP) on MA2265-Discrete Mathematics	15/06/2011 to 22/06/2011

WEBINARS

S. No.	Organized by	State /National / International	Topic	Date(s)
1	Central University of Tamil Nadu, Thiruvarur	International	Applications of Machine Learning Techniques	25/04/2022 & 26/04/2022
2	Saveetha Institute of Technical and Medical Sciences	National	Lecture Series in Mathematics-Optimization Algorithm	18/12/2021

3	Rajagiri School of Engineering and Technology, Kerala	National	Mathematics for Artificial Intelligence & Data Science	11/12/2021
4	Hindustan College of Engineering and Technology	National	Workshop on Integer Optimization Techniques	30/06/2021
5	Bharath Institute of Higer Education and Research	National	Complex Analysis and its Applications	10/04/2021
6	St. Joseph's Institute of Techinology, Chennai	International	Recent Advances in Graph Theory and Neural Networks	14/07/2020 to 16/07/2020
7	SRM Institute of Science and Technology , Ramapuram	International	Janowski Functions Associated with the Conic Domains	19/07/2020
8	Stella Maris College , Chennai	International	Recent Advancements in Discrete Mathematics	22/06/2020 to 25/06/2020
9	Kongunadu College of Engineering and Technology, Trichy	International	Optimization of Fuzzy Inventory Models	29/05/2020
10	St. Joseph's Institute of Techinology	National	Exposure to SageMath	30/06/2020
11	NanjilCatholoic College of Arts and Science, Kanyakumari	National	Current Trends in Teaching Methods and Strategies in Higher Education	18/05/2020
12	St. Joseph's Institute of Technology, Chennai	National	Exposure to Data Analytics	29/07/2020 to 31/07/2020
13	Ethiraj College for Women, Chennai	National	Moodle LMS" Install, Create class,Add content and Enroll students	28/05/2020
14	Kongunadu College of Engineering and Technology, Trichy	National	Optimization of Fuzzy Inventory Models	29/05/2020

OTHERS:

Presented the problem solving techniques in Karpoom Kanitham in **Makkal Television**

RESOURCE PERSON:

S. No.	Organized by	State /National / International	Topic	Date(s)
1	Shasun Jain College for Women, Chennai	State	Guest Lecture- Trigonometric Functions	10-11-2022
2	DMI College of Engineering, Chennai	State	Webinar – (Attitude) Motivational talk	01-09-2022
3	Sri Venkateswara College of Engineering. & Technology (Autonomous) Thirupathi Road, Chittoor - 517127, Andhra Pradesh	State	Webinar -Role of Mathematics in Engineering.	11-07-2022
4	St. Joseph College of Engineering	State	Seminar-"Overview of Engineering Mathematics"	27-11-2021
5	Andhra Loyola College(Autonomous), Vijayawada	International	Invited talk-International e-Conference on Recent Trends in Mathematical Sciences- -"Inventory Optimization in Reverse Supply Chain with Remanufacturing"	29-07-2021
6	DMI College of Engineering, Chennai	State	Seminar – "Number Theory and its Application in Cryptography"	22-07-2021
7	JP College of Arts and Science, Thenkasis	National	FDP-Institutional Excellence and Best Practices –"Optimization and Decision Making"	01-07-2021
8	Bharath Institute of Science and Technology, Chennai	National	Webinar -" Inventory Optimization"	29-05-2021
9	DMI College of Engineering, Chennai	National	Anna University Sponsored Faculty Development and Training Programme in Discrete Mathematics- "Logic"	12-06-2013

BOOKS PUBLISHED:

1. Co-authored a Text book Probability and Queueing Theory,(ISBN No. 978-81-89843-47-2) Publisher: Dhanam Publishers, Chennai.

2. Co-authored a Text book Engineering Mathematics II, (ISBN No. 978-81-89843-27-4) Publisher: Dhanam Publishers, Chennai.

3. Co-authored a Text book Engineering Mathematics I, (ISBN No. 978-81-89843-25-0)