

FACULTY PROFILE TEMPLATE FOR WEBSITE

Basic Details:

- Name : P.Matilda Shanthini
- Designation : AP(OG)
- PhoneNumber : 9790113003
- Email Id : matildap@srmist.edu.in
- Area of Specialization : Reliability
- Affiliation : SRMIST

Educational Details:

- Degree – PH.D
- Area or Subject – Mathematics
- University – SRMIST, RMP
- Awarded Year – Pursuing
- Degree – M.Phil.,
- Area or Subject – Mathematics
- University – Alagappa University
- Awarded Year – 2013
- Degree – M.sc
- Area or Subject – Mathematics
- University – Alagappa University
- Awarded Year – 2012
- Degree – BSc.
- Area or Subject – Mathematics
- University – Alagappa University
- Awarded Year –2009

Other Details:

Courses :

- Statistics for Business
- Quantitative Technique for Business Decision
- Computational Methods (M.Tech CAD)
- Transforms & Boundary value problems
- Statistical methods for Engineers (M.Tech – Civil)
- Business Statistics-I
- Business Statistics-II
- Statistical Methods
- Resource Management Technique / Operation Research
- Numerical Methods
- Probability & Statistics
- Mathematics-I
- Mathematics-II
- Transforms & Partial Differential Equations
- Operation Research
- Statistics & Numerical Methods
- Probability & Random Process

Research Interests : Reliability

Selected Publications :

- **Paper title “Parametric optimization of abrasive water jet machining of C360 brass using MOTLBO”, materials today proceeding , 50(6) ISSN: Pages 1905-1910**
- **Paper title “A Study on Rate of Occurrence of failure using HPP for 225 kw windmill data “,Natural Volatile and Essential Oils 2021;8(4):11922-11925**

Papers Presented :

- 1. “Application of Naïve Bayes model in health care with machine learning approach” , AIP Conference Proceedings , PMTIA-2020 Organized by SRMIST- RMP**
- 2. A study on Rate of occurrence of failure using HPP for time between failiures”, AIP Conference Proceedings , PMTIA-2021 Organized by SRMIST- RMP”**
- 3. “Fitting Reliability data using various distribution through MLE”, AIP Conference Proceedings , e-ICMTA-2021 Organized by SRMIST- RMP”**

Working Papers : Software reliability

Work in Progress : Software reliability

Academic Experience :

- SRM INSTITUTE OF SCIENCE & TECHNOLOGY, RAMAPURAM From 28.06.2017 to Till Date
- Karaikudi Institute of Technology and Management June 2013-Nov 2015

Other Professional Experience : -

Achievements : -

Workshops /Seminars/Conferences:

- Workshop attended "Workshop on Fluid Dynamics and its Applications" on 12.04.2018 at SRMIST- Ramapuram
- Workshop attended "Differential Equations and its Applications" on 07.03.2019 at SRMIST- Ramapuram
- Conference attended "National Conference on Recent Trends in Fuzzy Mathematics and its Applications on 03.11.2017 & 04.11.2017 at SRMIST- Ramapuram
- Conference attended 2nd National conference on "Recent Trends in Fuzzy Mathematics and its Applications"(NCRTFMA-2018) on 26.10.2018 & 27.10.2018 at SRMIST- Ramapuram
- Conference attended 3rd National Conference on "Progress in Mathematics towards Industrial Applications" (NCPMTIA- 2019) on 27.09.2019 & 28.09.2019 at SRMIST- Ramapuram
- Approximate solution of Viral Dynamics in HBV infection using Homotopy Perturbation Method, AIP Conference Proceedings 2277,120006(2020), Published on 06-November-2020, ICMTA-2020 Organized by SRMIST- KTR Campus
- Workshop on Linear Algebra Organized by SSN college of Engg from 1.6.20 - 2.6.20
- Workshop on Mathematical Analysis Organized by Loyola College from 8.6.20-13.6.20
- International Workshop on Epidemic Modelling Organized by Mukesh patel school of Engg & Technology from 08.06.2020 to10.06.2020
- International webinar on computational fluid Dynamics Organized by Sanjivani College of Engg, kopargaon on 10.06.20
- Three Days Online FDP on innovative strategies in English Language Teaching Organized by Jeepiar Engineering College from 10.06.2020 to 12.06.2020
- Mathematical Modelling of Infectious Diseases Organized by Mizoram University on 11.06.2020
- Webniar on Mathematical Modelling in Covid 19 Organized by Jeepiar Engineering College on 13.06.20
- One week FDP on Advance Materials Research Organized by Bharat Institute of Engineering And Technology from 15.06.2020 - 19.06.2020
- Modern Epidemiology Of Infectious Disease Using Predatory Prey Dynamics Organized by SRMIST- Ramapuram on 16.06.20
- International FDP on Fuzzy Mathematical Modelling Organized by St Joseph`s College of Engineering from 16.06.2020 & 17.06.2020
- International web conference on Advances in Mathematics Organized by St Mary`s College, Thoothukudi from 17.06.2020 - 19.06.2020

- SIRD Model to Predict COVID-19 Outbreak in Tamilnadu-India Organized by SRMIST-Ramapuram on 25.06.20
- Evolution of COVID-19 Pandemic: Power -law growth & Flattening of the curve Organized by SRMISTRamapuram on 26.06.20
- Mathematica & Application of Mathematics Organized by Pillai College of Engineering from 27.06.2020 - 29.06.2020
- National Webniar on Real time weather & Covid Data Analysis Organized by Thakur College of Science & Commerce on 27.06.2020
- Exposure to Sage Math Organized by St Joseph Institute of Technology on 30.06.2020
- Mathematical Modelling of Infectious Disease with special focus on COVID -19 Organized by VIT, Chennai on 02.07.2020
- International Workshop on "The Craft of Research" Organized by SRMIST, Ramapuram from 02.07.2020 and 03.07.2020
- One Week Online FDP on Being a Super Teacher Organized by Bannari Amman Institute of Technology from 06.07.2020 to 12.07.2020
- FDP on Mathematics & Its Application in Engg & Tech Organized by SRMIST KTR Campus from 06.07.2020 to 16.07.2020
- International webinar on "On the Merrifield - Simmons Index of Graphs" Organized by SRMIST, Ramapuram on 10.07.2020
- International webinar on "Online Teaching & Learning: Challenges & Oppurtunities through Disruption " Organized by Geetha Jeevan Arts & Science College on 15.07.2020
- International webinar on "Janowski Functions Associated with the comic domains" Organized by SRMIST, Ramapuram on 19.07.2020
- International webinar on "Topological Tverberg Conjecture: A Homotopy theoretic approach" Organized by SRMIST, Ramapuram on 20.07.2020
- International Virtual FDP Frontiers of Mathematics Organized by SRMIST RAMAPURAM from 17.08.2020- 26.08.2020
- Webinar-Mapping Disease Organized by Data SRMIST,RPM on 25.09.2020
- Stability and Numerical Solution of SEQIR Model for COVID-19 with Optimal Control and Prediction PMTIA-2020 Organized by SRMIST-Ramapuram Campus on 06.11.2020 & 07.11.2020
- National Mathematics Day-Celebrating Srinvasa Ramanujan Organized by SRMIST RPM CHENNAI from 22.12.2020 to 26.12.2020
 - A Ten-Day online Faculty Development Programme (FDP) on “Mathematical Models for Machine Learning and It’s Applications”, organized by Electronics & ICT Academy, NIT Warangal and Faculty of Science & Technology (IcfaiTech), The ICFAI Foundation for Higher Education(IFHE), Hyderabad (July 11-20, 2022).
- “A Special talk on Technology Enabled Learning for 21st Century Students”, SRMIST, Ramapuram, Chennai, (16.07.2022).
 - “A Special talk on Personal Development - Looking Inward and focusing on ways to better yourself”, SRMIST, Ramapuram, Chennai, (23.07.2022).
 - “A Special talk on Carving your Career”, SRMIST, Ramapuram, Chennai, (06.08.2022).
 - “A Special talk on Ways to Handle Life’s Stressors”, SRMIST, Ramapuram, Chennai, (13.08.2022).

- “A Virtual Workshop on Reliability Modeling and its Applications”, SRMIST, Ramapuram, Chennai, (24.08.2022 & 26.08.2022).
- “A Special talk on Stem Strategy, Role of Teachers”, SRMIST, Ramapuram, Chennai, (05.09.2022).

Achievements and Awards:

- **Completed Nptel course on Transforms calculus and application**
- **Completed 60 Courses in COURSERA**

Academic / Professional Membership: -



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