

Dr.S.KARTHIKEYAN M.E., Ph.D., MISTE,

Srinivasa Illam, Gandhi Nagar East
Karuppanapuram, Oddanchatram
Dindigul Dist-624619
Phone: 9943440010 (M)
|04553-243160 (R), 9943440075
Email: mekarthikeyan@yahoo.co.in



Designation : **Associate Professor**
Department : **Mechanical Engineering**
Qualification : **B.E (Mech.,) M.E (CAD/CAM.,) Ph.D., L.M.I.S.T.E**

Academic Performance:

Degree	Specialization	Class	University	Year of passing
Ph.D.,	Mechanical Engineering	FIRST	Anna University, Chennai	2010-2015
M.E.,	CAD/CAM	I Class	Anna University, Chennai	2006-2008
B.E.,	Mechanical Engineering	I Class	Madurai Kamaraj University	1998-2002

Working Experience: (Teaching)

Teaching	Designation	Experience
Christian college of Engg & Tech, Oddanchatram	Associate Professor	15.10.2015 to Till Date 5 month (app.)
Christian college of Engg & Tech, Oddanchatram	Assistant Professor	01.06.2010 to 14.10.2015 5 years 5 month (app.)
Christian college of Engg & Tech, Oddanchatram	Lecturer	10.09.2007 to 31.05.2010 3 years (app.)
Christian Polytechnic college, Oddanchatram	Lecturer	06.06.2005 to 09.08.2007 2 years 3 month

Working Experience: (Industry)

Industry	Designation	Experience
Probity Techniques Pvt Ltd Chennai	Quality control & Design Engineer	06.06.2002 to 31.05.2005 3 years

Total Work Experience : 14 years (As on March 2016)

Summer / Winter Schools Attended:

AICTE & ISTE–STTP on “**Recent Trends in Optimization Techniques For Advanced Manufacturing Systems**” organized by Dept. of Mechanical Engineering, RVS College of Engineering & Technology, Dindigul– 624 005

Duration: 1 week (16.06.2008 – 20.06.2008)

Two Day Faculty Development Program on “**Latest Trends in CAD / CAM / CAE & PLM**” – organized by Centre for Academic Excellence, Anna University Tiruchirappalli, Tiruchirappalli – 620 024

Duration: 2 days (28.02.2009 & 01.03.2009)

One Day National Workshop on “**Industrial Automation and Embedded Systems**” (IAES-2009) – organized by Council of Scientific and Industrial Research(CSIR, New Delhi) and Department Of Mechatronics Engineering , Sri Krishna College Of Engineering & Technology, Coimbatore – 641 008.Duration: 1 day (21.03.2009)

International Conference on “**Operation Research application in Engineering and Management– ICOREM 2009**” organized by Anna University Tiruchirappalli, Tiruchirappalli – 620 024

Duration: 2 days (27.05.2009 & 29.05.2009)

International Conference on “**Frontiers in Automobile and Mechanical Engineering– FAME- 2010**” organized by Sathyabama University Chennai

Duration: 3 days (25.11.2010 & 27.11.2010)

Two Day Workshop on “**Research Methods and Tools for Engineering Faculty**” organized by Dept. of Mechanical Engineering, Bannari Amman Institute of Technology, Sathyamangalam.

Duration: 2 Days (18-12-2009 to 19-12-2009)

Two Day Workshop on “**Research Methods**” – organized by Dept. of Biomedical Engineering, PSG College of Technology, Coimbatore

Duration: 2 days (01.03.2010 & 02.03.2010)

Two Day Faculty Development Program on “**Research Funding & Patent Methodologies in Engineering & Technology**” – organized by KLN College OF Engineering

Duration: 2 days (04.03.2010 & 05.03.2010)

Two Day Workshop on “**Research Methods and Tools for Researchers**” – organized by Dept. of Mechanical Engineering, Jayaram College of Engineering & Technology, Coimbatore

Duration: 2 days (11.03.2011 & 12.03.2011)

Anna University of Technology Madurai Sponsored Two Day Faculty Development Program on “**Material Science and Metallurgy**” – organized by PSNA College Of Engineering & Technology, Dindigul.

Duration: 2 days (22.03.2011 & 23.03.2011)

Subjects Handled:

- Teaching UG & PG Course subjects in Mechanical Engineering – **Manufacturing Technology – I & II, Engineering Metrology, Thermal Engineering, Engineering Mechanics, Unconventional Machining Process, Applied Thermodynamics, Principles of Management, Basic Mechanical Engineering, Engineering Graphics, Advance Computer Integrated Manufacturing and Industrial Robotics.**

Research Interests:

- Analysis on Cell Formation Methods
- Scheduling Cellular Manufacturing Systems
- Simulation of Manufacturing System
- Implementation of CMS- Case Studies

- Optimization of Manufacturing systems
- Optimization of Facility Layouts

Research Experience:

- Experience in design and analysis on Cell formation methods related to Cellular Manufacturing Systems.
- Research in analysis and comparison of various cell formation approaches.
- Research in scheduling of Flow Line Manufacturing Cell.

International Journal publications

- **Karthikeyan, S,** & Saravanan, M 2012, ‘GT Machine Cell Formation Problem in Scheduling for Cellular Manufacturing system using Meta-Heuristic Method’ *Procedia Engineering*, vol.38, no.1, pp.2537-2547.
- **Karthikeyan, S,** Saravanan, M & Ganesh Kumar, S 2014, ‘Design of worker assignment in a dynamic cellular manufacturing system by algorithms’ *International Journal of Mechanical and Mechatronics Engineering (IJMME)*, vol.14, no.06, pp.114-121.
- **Karthikeyan, S,** & Saravanan, M 2015, ‘Minimizing the number of voids and exceptional elements in multi-Dimensional Cellular Manufacturing system using Meta-Heuristics’ *International Journal of Applied Engineering and Research (IJAER)*, vol.10, no.2, pp.2495-2504.
- **Karthikeyan, S,** Saravanan, M & Ganesh Kumar, S 2015, ‘Designing an Incremental Cellular Manufacturing system by using a hybrid approach based on the Genetic Algorithm and Particle swarm optimization’ *International Journal of Enterprises and Network Management*.
- **Karthikeyan, S,** Saravanan, M & Ganesh Kumar, S 2015, ‘Investigation of multi –Dimensional Cellular Manufacturing system using Meta-Heuristic Method’ *Applied Mechanics and Materials*, vols.766-767, pp. 982-988.
- **Karthikeyan, S,** Saravanan, M Sridhar, S, & Raghu John, T 2015, “Minimization of inter-cell material handling cost in Cellular Manufacturing System by using PSO Algorithm” *International Journal of Applied Engineering and Research (IJAER)*, vol.10, no.39, pp. 29632 - 29636 .

- **Karthikeyan, S, Saravanan, M & Ganesh Kumar, S** 2015, ‘Investigation of multi –Dimensional Cellular Manufacturing system using Meta-Heuristic Method’ Applied Mechanics and Materials, vols.766-767, pp. 982-988.

International Conference Publications

Karthikeyan, S, & Saravanan, M 2009 International Conference in “Operation Research application in Engineering and Management– ICOREM 2009” organized by Anna University Tiruchirappalli, Tiruchirappalli.

Karthikeyan S. & Manivannan J. 2010 International Conference in “Frontiers in Automobile and Mechanical Engineering– FAME-2010” organized by Sathyabama University Chennai.

- **Karthikeyan, S, & Saravanan, M** 2012, ‘Solving cell formation problem in cellular manufacturing system using Tabu Search based on optimization techniques International Conference on Recent Advance in Mechanical Engineering– INCRAME- 2012’, organized by Dr.M.G.R. University Chennai, during April 19-20.
- **Karthikeyan, S, & Saravanan, M** 2014, ‘Designing an incremental cellular manufacturing system by using a hybrid approach based on the genetic algorithm and particle swarm optimization’, International Conference on ‘Modeling optimization and computing – ICMOC 2014’, organized by Noorul Islam University, kumaracoil during April 10-11.
- **Karthikeyan, S, Saravanan, M & Rajkumar, M** 2014, ‘Optimization of Worker Assignment in a Dynamic Cellular Manufacturing system by using Genetic algorithm’, International Conference on ‘Modeling optimization and computing – ICADM 2014’, organized by National Institute of Technology, Tiruchirappalli during Dec 10-11.
- **Karthikeyan, S, Saravanan, M & Rajkumar, M** 2015, ‘Minimizing Production Costs in Dynamic Cellular Manufacturing Systems of Cell Formation Problem by using Hybrid Particle Swarm Optimization’, International Conference on Emerging Trends in Engineering, Technology & Management - ICETM-2015 organized by RVS College of Engineering and Technology ,Dindigul during April 17-18.

National Conferences:

- **Karthikeyan, S, & Saravanan, M, 2008**, ‘Simulated Annealing Algorithm of Scheduling Optimization for Cellular Manufacturing System’, National Conference Advances in Mechanical Sciences AIMS-2008 held at Kumarakuru College of Technology Coimbatore.
- **Karthikeyan, S, and Saravanan M. 2008**, ‘Scheduling Optimization for Cellular Manufacturing System Using Tabu Search Method’ National Conference RECTIMS-08 held at Jayaram College of Engineering & Technology, Erode.
- **Karthikeyan S. and Saravanan M. 2009**, ‘Meta Heuristic Methods for Scheduling Optimization of cellular Manufacturing systems ’, CSIR Sponsored National Conference on Soft Computing to be held at Institute of Road and Transport Technology, Erode.
- **Karthikeyan S. and Saravanan M. 2010**, ‘Analysis of Failure and Replacement of Welding in Boiler ’, National Conference NCOT ‘ 10 held at Karpagam College of Engineering, Coimbatore.
- **Karthikeyan, S, & Saravanan, M, 2011**, ‘Minimizing the penalty cost by comparing Optimization techniques in cellular Manufacturing systems ’, National Conference on ETDM-11, 30th September held at Hindusthan Institute of Technology, Coimbatore.
- **Karthikeyan, S, & Saravanan, M, 2013**, ‘Scheduling and Optimization of worker assignment in a Dynamic Cellular Manufacturing System by using PSO ’, National Conference on ETDM-13, 13th March held at Hindusthan Institute of Technology, Coimbatore.
- **Karthikeyan, S, & Saravanan, M, 2014**, ‘Investigation of multi Dimensional Cellular Manufacturing System by using Metaheuristic methods” National Conference on AIME-14, 4th April held at Christian College of Engineering & Technology, Oddanchatram.

Memberships:

- Life Member in Indian Society of Technical Education (**LMISTE**).
- Editorial Member in International Journal of Nano corrosion science and Engineering

Administrative Responsibilities Other than Class Works:

- In charge for Metrology Lab/Manufacturing Technology Laboratory
- In charge for conducting Project work for Mechanical Engineering.
- In charge- Association Activities for Department of Mechanical Engineering.
- In charge -Placement activities for Department of Mechanical Engineering.
- In charge –Industrial Visit for Department of Mechanical Engineering.
- In charge for Admission Cell and Succeed Full Strength of Total Intake.
- Acted as University Representative for Anna University examinations.
- Actively involved in **AICTE & UNIVERSITY AFFILIATION WORK**
- Actively involved other Departmental activities.
- Actively involved in arranging Guest Lectures and One Day Workshops.
- Actively involved and heading the NSS Department.
- Actively involved in installing and developing all the laboratories for the Department of Mechanical Engineering.
- **Willing to undertake any Additional Responsibility.**

Personal Details:

Name : **S.Karthikeyan**
Father's Name : R.seenichamy
Date of Birth & Age : 15.11.1978 & 37 years
Marital Status : Married & Blessed With One Child.
Permanent Address : Srinivasa Illam, Gandhi Nagar East
Karuppanapuram, Oddanchatram, Dindigul Dist-19

Date:

Place: **ODDANCHATRAM**

(S.KARTHIKEYAN)