

# FACULTY PROFILE

KATHIRESAN.M

## Personal Details

**Salutation:** Dr.

**Instructor Name:** **M. KATHIRESAN**

**Designation:** **Associate Professor**

**Department:** MECHANICAL ENGINEERING -  
NEC

**Date of Joining in  
NEC:** 06-06-2005

**Date of Joining in  
Present Post:** 26-12-2017

**Mobile Number:** 9994658846

**College Id:** MECT012

**College Email Id:** mkmech@nec.edu.in

**Unique Staff Id:** 1-455141921



## Address for Communication

**Address Line 1:** 130/103, KK Road, **Pincode:** 625532

**Address Line 2:** Near JBR mahal, **District:** Madurai

**City:** Usilampatti **State:** Tamilnadu

## Educational Qualifications

Sr	Name of the Degree	Specialization	Name of the Institute	Name of the University	Year of Passing
1	B.E	Mechanical Engineering	Adhiyamaan College of Engineering, Hosur	University of Madras	1998
2	M.E	CAD/CAM	Mepco Schlenk Engineering College, Sivakasi.	Madurai Kamaraj University- Madurai	2002
3	Ph.D	Mechanical Engineering	National Engineering College, Kovilpatti	Anna University, Chennai	2016

## Faculty Professional Experience

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
1	Madura Coats Ltd., Madurai	Graduate Engineer Trainee	10-08-1998	09-08-1999	1yr

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
2	BharathNiketan Engineering College, Aundipatti	Lecturer	12-06-2003	11-10-2004	1yr 4 months
3	SACS M.A.V.M.M Engineering College, Madurai	SACS M.A.V.M.M Engineering College, Madurai	11-10-2004	31-05-2205	6 months
4	National Engineering College, Kovilpatti	Lecturer	06-06-2005	01-06-2011	6 yrs
5	National Engineering College, Kovilpatti	Assistant Professor (Sr. Grade)	01-06-2011	25-12-2017	6yrs 7 months
6	National Engineering College, Kovilpatti	Associate Professor	26-12-2017	23-04-2022	4yrs 4 months

### FDP/ Workshop/ Seminar/ Training/ Knowhow Program Attended

Sr	Name of the Event	Event Type	Name of the Instituion or Organization	From	To
1	3D printing and design of metals and polymers	Faculty Development Program	Indian Institute of Technology Indore	06-12-2021	10-12-2021
2	Additive Manufacturing: From 3D Printing to the Factory Floor	Faculty Development Program	National Institute of Technology Srinagar.	23-08-2021	27-08-2021
3	Design and Analysis of Mechanical Systems (DAMS)	Short Term Training Program	National Institute of Technology, Tiruchirappalli.	10-06-2019	15-06-2019
4	dynamic behavior of composites	GIAN Course	National Institute of Technology Karnataka, Surathkal	17-12-2018	24-12-2018
5	Smart Manufacturing	GIAN Course	Dr B R Ambedkar National Institute of Technology, Jalandhar	19-02-2018	24-02-2018

### International and National Conferences Attended

Sr	Name of the Conference	Event Type	Name of the Instituion or Organization	Title of the Paper	Authors
1	e-TIME'14	International Conference Participation	Karpagam College of Engineering, Coimbatore, Tamilnadu, India	Study on low velocity axial impact behaviour of glass fibre/epoxy composite conical frusta	M.Kathiresan

Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper	Authors
2	ICRDME 2019	International Conference Participation	S.A. Engineering College, Chennai, India	Experimental and numerical studies on crashworthiness parameters of Mild Steel square tube under quasi-static axial compression	Shinde Rushikesh, Mali Kiran and, Kathiresan M
3	RAIME'13	National Conference Participation	National Engineering College, Kovilpatti, Tamilnadu, India	Crashworthiness analysis of fiber metal laminated thin conical frusta under static & dynamic loading condition	M.Kathiresan, K. Manisekar

### FDP/ Workshop/ Seminar/ Conference Programs Organized

Sr	Name of the Event	Event Type	Name of the Funding Agency	Amount received from funding Agency	Role
1	Hands on CNC Programming	Hands-on Training	National Engineering College	₹ 0.00	Convenor

### Guest Lecture Delivered

Sr	Name of the Event / Program	Name of the Institution / Organization	Title of the Lecture delivered	From	To
1	New Product Development	National Engineering College, Kovilpatti	Innovation in NPD	10-02-2021	12-02-2021

### Faculty Research Publications

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
1	Investigations on crush behavior and energy absorption characteristics of GFRP composite conical frusta with a cutout under axial compression loading	Mechanics of Advanced Materials and Structures	2021	Kathiresan Muthiah, Manisekar Kondal, Vasudevan Rajamohan & Mehmet A. Güler	<a href="https://doi.org/10.1080/15376494.2021.1955168">https://doi.org/10.1080/15376494.2021.1955168</a>

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
2	Effects of cutout and impact loading condition on crashworthiness characteristics of conical frusta	International Journal of Crashworthiness	2021	M. Kathiresan	<a href="https://doi.org/10.1080/13588265.2021.1903280">https://doi.org/10.1080/13588265.2021.1903280</a>
3	Influence of shape, size and location of cutouts on crashworthiness performance of aluminium conical frusta under quasi-static axial compression	Thin-Walled Structures	2020	M. Kathiresan	<a href="https://doi.org/10.1016/j.tws.2020.106793">https://doi.org/10.1016/j.tws.2020.106793</a>
4	Experimental and numerical study on crashworthiness parameters of mild steel square tube under quasi-static axial compression	International Journal of Vehicle Structures & Systems	2020	Shinde Rushikesh, Mali Kiran, M Kathiresan, Kulkarni Dhananjay	<a href="https://doi.org/10.4273/ijvss.12.2.01">https://doi.org/10.4273/ijvss.12.2.01</a>
5	Low velocity axial collapse behavior of E-glass fiber/epoxy composite conical frusta	Composite Structures	2017	M Kathiresan, K Manisekar	<a href="https://doi.org/10.1016/j.compstruct.2017.01.041">https://doi.org/10.1016/j.compstruct.2017.01.041</a>
6	Axial crush behaviours and energy absorption characteristics of aluminium and E-glass/epoxy over-wrapped aluminium conical frusta under low velocity impact loading	Composite Structures	2016	M Kathiresan, K Manisekar	<a href="https://doi.org/10.1016/j.compstruct.2015.09.052">https://doi.org/10.1016/j.compstruct.2015.09.052</a>
7	Crashworthiness analysis of glass fibre/epoxy laminated thin walled composite conical frusta under axial compression	Composite Structures	2014	M Kathiresan, K Manisekar, V Manikandan	<a href="https://doi.org/10.1016/j.compstruct.2013.09.060">https://doi.org/10.1016/j.compstruct.2013.09.060</a>
8	Performance analysis of fibre metal laminated thin conical frusta under axial compression	Composite Structures	2012	M Kathiresan, K Manisekar, V Manikandan	<a href="https://doi.org/10.1016/j.compstruct.2012.05.026">https://doi.org/10.1016/j.compstruct.2012.05.026</a>

## Research Supervisor & Scholars Details

Sr	Name of the University	Name of the Faculty	Reference No. (Supervisor id Number)	Research Area	Date of supervisor recognition
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Sr	Name of the University	Name of the Faculty	Reference No. (Supervisor id Number)	Research Area	Date of supervisor recognition
1	Anna University	Mechanical Engineering	2920073	Mechanical Engineering	03-05-2017

Sr	Name of the Research Scholar	Date of Registration	Internal or External / Full time or Part Time	Research topic	Present Status
1	Anburaj P	20-09-2021	External (Part Time)	influence of composite materials on performance improvement of solar still	Doing Course Work

## Funded Research Project Details

Sr	Name of the Project	Principal Investigator	Co-Investigator	Amount of Fund Received	Funding Agency	Project Duration
1	INVESTIGATION ON CRASHWORTHINESS CHARACTERISTICS OF BIO-INSPIRED THIN-WALLED CONICAL TUBULAR MEMBERS	Dr. M.Kathiresan	Dr. R. Harichandran	₹ 38,76,550.00	Science & Engineering Research Board (SERB)-DST	2022-2025
2	DESIGN AND DEVELOPMENT OF LARGE DIAMETER SLEWING RING BEARING FOR FAST BREEDER REACTOR	Dr. K. Manisekar	Dr. M. Kathiresan	₹ 27,00,000.00	Board of Research in Nuclear Sciences (BRNS)	2006-2009

## Product Development Activities

Sr	Product Title	From	To	Funds Received	IPR Status
1	Peanut Candy Making Machine	20-02-2020	19-02-2040	₹ 2,50,000.00	Granted
2	Mosquitoes and Bugs Attracting, Trapping and Killing Device	13-03-2020	12-03-2040	₹ 0.00	Granted
3	An apparatus for attracting and trapping Insects in dark conditions	20-07-2021		₹ 0.00	Published

## Membership in Professional Societies

Sr	Name of the Society / Organization	Type of Membership	Membership ID
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Sr	Name of the Society / Organization	Type of Membership	Membership ID
1	INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE)	Life member	LM : 49500
2	INSTITUTION OF ENGINEERS (IE)	Life membe	

## Consultancy Work Details

Sr	Consultancy Work Detail	Name of Industry / Agency	Amount	From	To
1	CNC machining of industrial die & Mould	Vijay Tools Madurai	₹ 50,000.00	18-09-2019	10-08-2020