

BIO DATA



Name : **Dr. M.K.V. Karthikeyan**

Designation : Professor and Head

Department : Mechanical Engineering

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Google Scholar link : <https://scholar.google.com/citations?hl=en&user=1jw5WYQAAAAJ>

1. Educational Qualification:

S. No.	Degree	Institution	University	Class
1.	B.E (Mechanical Engineering)	K.L.N. College of Engineering	Madurai Kamaraj University	First class
2.	M.E (Manufacturing Engineering)	K.L.N. College of Engineering	Anna University- Chennai	First Class with Distinction
3.	Ph.D. (Natural Fiber Polymer Composites)	Anna University- Chennai	Anna University- Chennai	Ph.D. Awarded (AU-Recognized Research Supervisor)

2. Professional/ Industry Experience: (in chronological order)

S. No.	Designation	Institute/Organization	Period	
			From	To
1	Lecturer	K.L.N. College of Information Technology	28.07.2004	30.06.2009
2	Senior Lecturer	K.L.N. College of Information Technology	01.07.2009	30.06.2010
3	Assistant Professor	K.L.N. College of Information Technology	01.07.2010	19.07.2012
4	Associate Professor and Head	K.L.N. College of Information Technology	20.07.2012	31.10.2020
5	Professor and Head	Vaigai College of Engineering	18.08.2021	Till date

Industrial Experience: (1 year)

- Worked as Service Engineer in Ramesh Automobiles, Madurai from 08.02.2003 to 28.02.2004.

3. Research Interest: Natural fiber polyester composite

RECOGNIZED RESEARCH SUPERVISOR:

University	Ref. No.	Date
Anna University- Chennai	3520013	23.12.2019

JOURNAL REVIEWER:

Journal Name	Publisher
Materials Today: Proceedings	Elsevier

GOOGLE SCHOLAR CITATION OF MY RESEARCH WORK:

Citations	h-index	i10-index
197	5	5

4. Journal Publications (add patent if any):

PATENT PUBLICATION:

- A patent published under the title of “Development of Industrial Roof Sheet using Banana fiber rope mat reinforced polymer composites” Ref: 202441090748 A/ 29/11/2024.

INTERNATIONAL JOURNAL PUBLICATIONS: (12 Publications)

1. A.N.balaji, M.K.V.Karthikeyan, V.Vignesh, “Effect of rope mat and random orientation on mechanical and thermal properties of banana ribbon-reinforced polyester composites and its application”. International Journal of Polymer Analysis Characterization 21(4), pp.296-304. (Taylor and Francis). DOI 10.1080/1023666X.2016.1148235. (JAN 2016) (SCIE) (Annexure –I) (Impact factor -2.583). (Citations-31)
2. M.K.V. Karthikeyan, A.N.balaji, V.Vignesh, “Characterization of new natural cellulosic fiber from kusha grass”. International Journal of Polymer Analysis Characterization 21(7), pp.599-605. (Taylor and Francis). DOI 10.1080/1023666X.2016.1192324. (MAY 2016) (SCIE) (Annexure –I) (Impact factor -2.583). (Citations-40)
3. V.Vignesh, A.N.balaji, M.K.V.Karthikeyan, “Extraction and characterization of new cellulosic fibers from Indian mallow stem- An exploratory investigation”. International Journal of Polymer Analysis Characterization 21(6), pp.504-512. (Taylor and Francis). DOI 10.1080/1023666X.2016.1175206. (APRIL 2016) (SCIE) (Annexure –I) (Impact factor -2.583). (Citations-62)

4. V.Vignesh, A.N.balaji, M.K.V.Karthikeyan, "Effect of wood saw dust filler on the mechanical Indian mallow fiber yarn mat reinforced with polyester composites". International Journal of Polymer Analysis Characterization, 22(7), pp.610-621. (Taylor and Francis). DOI 10.1080/1023666X.2017.1356481. (JULY 2017) (SCIE) (Annexure –I) (Impact factor -2.583). (Citations-39)
5. V.Vignesh, A.N.balaji, M.K.V.Karthikeyan, "Cellulosic fiber based hybrid composites: A comparative investigation into their structurally influencing mechanical properties." Construction and Building Materials. DOI 10.1016/j.conbuildmat.2020.121587 (NOV 2020): 121587. (Elsevier) (SCIE) (Annexure –I) (Impact factor -7.693). (Citations-17)
6. Venkatesh, R., M. K. V. Karthikeyan, R. Sasikumar, C. B. Priya, N. Karthikeyan, and S. Madhu. "Effective utilization of silica from waste cow dung ash filler reinforced biodegradable jute epoxy composites: influence of silica on its mechanical properties." Biomass Conversion and Bio refinery (2023):14 (18), 22401-22411. (SCIE) (Annexure –I) (Impact factor -4.05). (Citations-5)
7. M.K.V. Karthikeyan , S. Raghuvaran, R. Venkatesh , G. Ramya Devi , S. Prabakaran , Melvin Victor De Poures, M. Arunkumar, A.H. Seikh , A. Iqbal "Influences of silicon carbide nanoparticles on Graphite reinforced sisal (Agave sisalana) fiber hybrid composite behavior study" Journal of Mechanical Science and Technology (JMST) (2024): 1-7. (SCIE) (Annexure –I) (Impact factor – 1.7).
8. Karthikeyan, M. K. V., Kamaraj, L., Kavipriya, S., Rathinavelu, V., Sadagopan, D. K., Soudagar, M. E. M., & Manickaraj, P. (2024). "Investigation and chemical processing effect of sisal fiber epoxy composite characteristic enhancement with nano-SiC via injection mold." The International Journal of Advanced Manufacturing Technology, 132(5), 2209-2216. (SCIE) (Annexure –I) (Impact factor – 3.4). (Citations-1)
9. Kaliyaperumal, Gopal, M. K. V. Karthikeyan, N. Sivashanmugam, G. Ramya Devi, M. Sathish Kumar, G. Saveetha, M. Poornesh, G. Vamshi Varma, and Gowtham Raj. "Influences of MWCNT bonding strength on Microstructure, mechanical performance of Alsi10 mg alloy composite." Materials Today: Proceedings (2023). UGC APPROVED (Web of Science) (Impact factor -2.59). (Citations-1)
10. Barnabas, Godwin S., Arun Vasantha Geethan, Valai S. Ganesh, M. K. V. Karthikeyan, and Chrispin M. Das. "Application of Decision-Making Algorithms in the Landfill Site Selection." Environmental Engineering & Management Journal (EEMJ) 22, no. 9 (2023). UGC APPROVED (Web of Science) (Impact factor –1.1).
11. Balaji A N, Karthikeyan M K V, Thanga Kasi Rajan S, and Ezilvannan R. "Mechanical Characteristics of Naturally Woven Coconut Sheath/Short Sisal Fiber Reinforced Polymer Hybrid Composites". Journal of Polymer & Composites (JOPC) (2024): 12 (1), 34-44. UGC APPROVED (Web of Science).



12. Balaji A N, Thanga Kasi Rajan S, Karthikeyan M K V and Ramkumeresh H “Investigation on Alkali Treated Baheda Seed Filler Reinforced Polymer Composites”. AIP Conference Proceedings (AIP) (2024): 3221 (1) SCIE (SCOPUS-Elsevier).
13. Balaji A N, Karthikeyan M K V, Vignesh V, Mohamed Hashem , Hassan Fouad Pijush Kanti Mondal,A.B.Madhavan8 “Experimental Studies on Agave Veracruz Fiber Mat Reinforced Polyester Composites and its Application” Polymer Composites (2024) (SCIE) (Annexure –I) (Impact factor – 4.8). (Accepted for publication).

PAPER PRESENTATIONS:

1. A paper presented under the title of “Comparative Study of Polyester Composites Reinforced with Randomly Oriented Intimately Mixed Short Cactus and Coir Fiber” for the International conference ICDF -2008, organized by Department of Mechanical Engineering, Coimbatore Institute of Technology, Coimbatore, during 11th to 13th August 2008.
2. A paper presented under the title of “Mechanical Properties of Cactus Fiber Reinforced Polyester Composites” for the National conference EDQUES-2008. Organized by Department of Mechanical Engineering, Government College of Engineering, Tirunelveli on 23.07.2008.
3. A paper presented under the title of “Implementation of Swarm Intelligence Techniques for Gear Pair Design” for the National conference. ETME -2009. Organized by Department of Mechanical Engineering, Shri Angalamman College of Engineering, Trichy on 16.04.2009.
4. A paper presented under the title of "Optimization of Bevel Gear Pair Using Population Based Swarm Intelligence Techniques" for the International conference ICOMAC -2009, organized by Jamal Mohamed College, Tiruchirappalli, during 24th to 25th July 2009.
5. A paper presented in International conference under the titled of " Optimization of bevel gear pair design using evolutionary computation" conducted by VIT university during 14-16, December 2009.
6. A paper presented in National conference under the titled of “An innovative strategy in manufacturing - optimization of Worm and Worm Wheel Design” conducted by MBA Department, K.L.N. College of Engineering., on 25.09.09.
7. A paper presented in Inter National conference (ICMES 2024) under the titled of “Mechanical Characteristics of Naturally Woven Coconut Sheath/Short Sisal Fiber Reinforced Polymer Hybrid Composites” Conducted by Mechanical Engineering Department, Aditya Engineering College on 28.03.24.
8. A paper presented in Inter National conference (ICSMT - 2024) under the titled of “Investigation on Alkali Treated Baheda Seed Filler Reinforced Polymer Composites” Conducted by Mechanical Engineering Department, Sri Eshwar College of Engineering, Coimbatore on 21.03.24.



9. A paper presented in Inter National conference (ICSMT - 2024) under the titled of “Investigation on Alkali Treated Baheda Seed Filler Reinforced Polymer Composites” Conducted by Mechanical Engineering Department, Sri Eshwar College of Engineering, Coimbatore on 21.03.24.
10. A paper presented in National conference (NCON 2024) under the titled of “Design and Analysis of Fixture for a Tyne Couple Plate” Conducted by Mechanical Engineering Department, SRM Madurai College of Engineering and Technology on 17.04.24.

Book/Book Chapter Publications:

- Dr. R. Ashok Kumar, Dr. M.K.V Karthikeyan, and Dr. K.J.Nagarajan “**Engineering Graphics**”. Charulatha Publication- Chennai. ISBN-13: 978-93-6260-633-4. April-2024.
- Dr. A.N.Balaji, Dr. J.Rajesh Babu and Dr. M.K.V Karthikeyan, “**Robotics**”. Charulatha Publication- Chennai. ISBN-13: 978-93-6260-368-5. September-2024

5. Funded Projects: NIL

6. Ph.D Guidance:

- Recognized Anna University Research Supervisor
- DC member for One Ph.D. Scholar

7. Participation in Seminars/FDP/Workshop/Conference/Webinar:

Webinars Attended:

S.No.	Date	Title	College Name
1	10.06.2020	Application Of CFD And Automobile Engineering	KCG College of Technology
2	21.06.2020	Two days online hands-on training workshop on hyper mesh	Kalasalingam Academy of Research and Education
3	05.09.2020	Basics of cooling water system in HVAC and its application	Sethu institute of Technology, Kariapatti.
4	11.07.2020	Friction stir welding	AAA College of Engineering Sivakasi
5.	29.01.2022	Digi Tech. Tools for Online Teaching	Vaigai College of Engineering
6.	28.03.2022-29.03.202	Fusion 360	Vaigai College of Engineering
7	18.06.23	Challenges in bridging Academia and Industries	SRM Madurai College of Engineering and Technology
8	11.06.23	IoT and its applications	SRM Madurai College of Engineering and Technology



9	28.05.23	Recent Trends in Composite Materials	SRM Madurai College of Engineering and Technology
10	16.04.23	Faculty Awareness Program on Swayam NPTEL Online	SRM Madurai College of Engineering and Technology
11	14.05.23	Fuel Cell and Its Applications".	SRM Madurai College of Engineering and Technology
12	14.01.2023	Product Development Process	SRM Madurai College of Engineering and Technology
13	14.02.2024-16.02.2024	AI Tool for Research and Publishing	Mannar Thirumalai Naicker College, Madurai.
14	20.03.2024	Applied Mechanics for Engineers	Mangayarkarasi College of Engineering Madurai.

Online Quiz Attended:

Sl.No	Date	Title	College Name
1	25.06.2020	Automotive Engineering	K. Ramakrishnan College of Engineering, Trichy.
2	16 .06.2020	Engineering Graphics	Aurora's Technological and Research Institute, Hyderabad
3.	12.06.2020	CAD/CAM	Kamala Institute of Technology, Telangana.
4	27.06.20	National level quiz on Engineering Workshop	Bharat Institute of Engineering and Technology.

FDP & WORKSHOP ATTENDED:

1. Attended the Short-Term Course on “Total Quality Management” conducted by QCFI, Madurai during 9th and 10th October 2004.
2. Attended the 6 days FDP program on “Design of Jigs, Fixtures and Press Tools” at KLNCE, Pottapalayam during November 2004.
3. Attended the Short-Term Course on “Engineering Mechanics” at College of Engineering, Guindy, Chennai during 3 – 8 January 2005
4. Attended the Faculty Development Program on “Effective Teaching and Learning Methods of Engineering Mechanics” at KLNCE, Pottapalayam during 3-15 July 2006.
5. Attended the Workshop on “Recent Development on Mechanical Engineering” at Anna University, Tiruchirappalli during 1 - 3 February 2008.



6. Attended the Faculty Development Program on “Population Based Evolutionary Techniques in Design and Manufacturing” at KLNCE, Pottapalayam during 11-12 May 2009.
7. Attended two days workshop on "Graphical System Design in Robotics and Machine Vision Application" conducted by department of mechanical engineering at K.L.N.C.E from 22.01.2010 to 23.01.2010.
8. Attended one day workshop on “Sustainable Materials Challenges and Opportunities in Polymer Composites” On 04.03.2011 at Annamalai University, Chidambaram.
9. Attended one day workshop on “FDP on teaching methodology” on 24.09.2016 organized by CADD centre, Madurai.
10. Attended one day workshop on “Characterization of natural fibers & How to publish research article in fibers characterization (Annexure- I)” on 11.02.2016 conducted by Deptt of Mechanical Engineering, Kamaraj College of Engineering and Technology.
11. Attended two days workshop on "Fusion 360" conducted by Naan Mudhalvan- Auto Desk at TCE-Madurai from 28.09.2022 to 29.09.2022.
12. Attended two days workshop on "Machine Learning Manufacturing" conducted by Department of Mechanical Engineering at TCE-Madurai from 15.12.2021 to 16.12.2021

FDP AND WEBINAR ORGANIZED

- Organized state level Technical Symposium “MECHARDI – GURUCHETHRA 2024.
- Organizing secretary of ICICCS-2023 IEEE international conference on 17-19th may 2023.
- Organized Webinar on “Eco Friendly Bio films for Packaging Applications” on 04/Aug/2023.
- Organized Tech Talk on Career guidance programme on February 8th 2023.
- Organized Webinar on “Mechanical Characterization of Materials” on 06th February 2024.
- Organized the Start-Up & Entrepreneurship Motivational Session on 13th February 2023.
- Organized Student Association activities “MESA -2022, MESA- 2023 & MESA- 2024 “

Membership in Professional societies

- MISTE-Life Member of the Indian Society for Technical Education from 2008.