

BIO DATA



Name : Dr. M.K.V.Karthikeyan
 Designation : Professor and Head
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1. Educational Qualification:

Degree	Branch/Specialization	Institute/University	Year of passing
B.E.	Mechanical Engineering	K.L.N. College of Engineering/ Madurai Kamaraj University	2000
M.E.	Manufacturing Engineering	K.L.N. College of Engineering/ Anna University-Chennai	2008
Ph.D.	Natural Fiber Polymer Composites	K.L.N. College of Engineering/ Anna University-Chennai	2019

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

Sl. 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 28.02.04. (1 year)



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
181	5	5

4. Journal Publications (add patent if any):

INTERNATIONAL JOURNAL 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) (**Annexure –I**) (**Impact factor -2.583**). (**Citations-30**)
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) (Annexure –I) (Impact factor -2.583). (Citations-39)
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) (Annexure –I) (Impact factor -2.583). (Citations-63)
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) (Annexure –I) (Impact factor -2.583). (Citations-32)

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) (Annexure –I) (Impact factor -7.693). (Citations-14)
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): 1-11. (Annexure –I) (Impact factor -4.05). (Citations-2)
7. 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). (SCOPUS) (Impact factor -2.59).
8. 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). (SCOPUS) (Impact factor –1.1).
9. Balaji A N , Karthikeyan M K V , Thanga Kasi Rajan S T K and Ezilvannan R. "Mechanical Characteristics of Naturally Woven Coconut Sheath/Short Sisal Fiber Reinforced Polymer Hybrid Composites". *Journal of Polymer & Composites (JOPC)* (2024) (SCOPUS). (Status: Accepted for publication)
10. M.K.V. Karthikeyan , S. Raghuvaran, R. Venkatesh , G. Ramya Devi , S. Prabakaran , Melvin Victor De Pours, M. Arunkumar, A.H. Seikh , A. Iqbal "Influences of silicon carbide nanoparticles on Graphite reinforced sisal (Agave sisalana) fiber hybrid composite behaviour study" *Journal of Mechanical Science and Technology (JMST)* (2024) (Annexure –I) (Impact factor – 1.7). (Status: Accepted for publication)



PAPER PRESENTATIONS:

1. Presented a paper 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. Presented a paper 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. Presented a paper under the title of “Development Of Banana-Based Polymer Composites And Their Mechanical Properties” for the National conference. *AMARA- 2008*. Organized by Department of Mechanical Engineering, PSNA Engineering College, Dindigul on 08.02.2008.
4. Presented a paper 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.
5. Presented a paper 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.
6. Presented a paper 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.
7. 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.

5. Book/Book chapter publications:

6. Funded Projects

7. Ph.D guidance

DC member for One Ph.D. Scholar



8. 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 hypermesh	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 - online
8	11.06.23	IoT and its applications	SRM Madurai college of engineering and Technology - online
9	28.05.23	Recent trends in Composite materials	SRM Madurai college of engineering and Technology - online
10	16.04.23	Faculty Awareness Program on Swayam NPTEL Online	SRM Madurai college of engineering and Technology - online
11	14.05.23	Fuel cell and its applications".	SRM Madurai college of engineering and Technology - online
12	14.01.2023	Product Development Process	SRM Madurai college of engineering and Technology - online
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:

S.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 Department of Mechanical Engineering, Kamaraj College of engineering and technology.

9. Membership in Professional societies

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