

INDIVIDUAL FACULTY DATA SHEET

Name of the College : Oxford College of Engineering

Name of the Department : Mechanical Engineering

Name of the Degree / Course : B.E

Name of the Faculty Member : Dr.N.KARUNAGARAN

Regular or Adjunct : Regular

Present Designation : Principal & Professor in Mechanical Engg



Residential Address : #48, Main Road,
Somavarakula Street,
Thiruvannamalai-606603
Tamilnadu

Contact Numbers : +91-9788086302, 9080671123

Gender : Male

Community : BC

Pan Number : BMVPK0470L

Aadhaar Number : 640059740287

Faculty Code given by AICTE : 1-7515627831

Date of Birth and Age : 30.01.1980 and 44

Date of Joining in the Present Post : 03.07.2024

E-mail : thirukaru79@gmail.com

I. Particulars about Educational Qualifications :

Category	Name of the Degree	Specialization	Year of passing	Name of the college	Name of the University	% of Marks/Grades Obtained	Class Obtained
UG	B.E	Mechanical Engineering	2001	Arunai Engineering College	University of Madras	67%	First class
PG	M.E	Manufacturing Engineering	2004	Faculty of Engg & Technology	Annamalai University	8.68 CGPA	First class with Distinction
Ph.D	Ph.D	Mechanical Engineering	2018	Madras Institute of Technology	Anna University	First class	First class

II. Title of the Ph.D. Thesis : “ Effect of Surface Treatment on Mechanical Properties of Glass fibre/ Stainless steel wire mesh reinforced Epoxy matrix hybrid Composites”

III. Faculty in which Ph.D. Was Awarded : Mechanical Engineering

IV. Academic Experience :

Name of the College	Designation	Joining date	Reliving date	Experience		
				Years	Months	Days
Oxford college of Engineering	Principal	03.07.2024	Till date	0	11	24
Er.Perumal Manimekalai College of Engineering	Professor	28.09.2022	03.06.2023	0	8	6
Saveetha School of Engineering	Professor	04.05.2019	23.09.2022	3	4	19

Oxford college of Engineering	Principal	12.01.2019	02.05.2019	0	3	21
S.K.P Engineering College	Professor	16.06.2010	09.01.2019	8	6	24
Arunai Engineering College	Lecturer	03.01.2007	31.05.2010	3	4	28
Thirumalai Engineering College	Lecturer	01.06.2004	29.12.2006	2	6	28
Total				19	11	0

V. Industrial Experience : Nil

VI. Other Relevant Information :

International Journals :

1. Effect of surface treatment on mechanical properties of glass fibre/stainless steel wire mesh reinforced epoxy hybrid composites, **N.Karunakaran**, A.Rajadurai, 2016, **Journal of Mechanical Science and Technology**, Vol.30, No.6, pp. 2475-2482. (Impact Factor: 1.09) **Springer**
2. Improvement of the interlaminar shear strength on surface modified glass fibre/stainless steel wire mesh reinforced hybrid composites, **N.Karunakaran**, A.Rajadurai and R.Saravanan, 2017, **International Journal of Chem Tech Research**, Vol.10, No.6, pp. 337-346. (Impact Factor : 0.57) **Chem Tech**
3. Energy absorption and damage behaviour of surface treated glass fibre/ stainless steel wire mesh reinforced hybrid composites, **N.Karunakaran**, G. Bharathiraja and A.Muniappan, 2019, **Materials Today : Proceedings**, Volume 22, Part 3, 2020, Pages 1078-1084
4. Investigation on fracture toughness of algae filler vinyl ester composite, G. Bharathiraja, **N.Karunakaran**, and V.Jayakumar, 2019, **Materials Today : Proceedings**, Volume 22, Part 3, 2020, Pages 1233-1235

5. Cost comparison between Common Clay Bricks and Interlocking Bricks in Construction Purpose" G.Rakesh,N.Karunagaran, **International Journal of Advanced Science and Technology**, Vol. 29, No. 5, (2020), pp. 5152 – 5156
6. Enhancement of surface quality in Wire EDM machining of Magnesium alloy using ANN modeling approach, Sreenivasulu, M., Muniappan, A., Bharathiraja, G., **Karunagaran, N.IOP Conference Series:Materials Science and Engineering**, 2020, 912(3), 032073
7. Experimental Exploration on Surface Roughness in Abrasive Water Jet machining using Response Surface Methodology, Venkata Ravi Kumar, S., Muniappan, A., Bharathiraja, G., **Karunagaran, N., IOP Conference Series: Materials Science and Engineering**, 2020, 912(3), 032089
8. Experimental investigation and Modeling of Drilling Process Parameters for MRR of Al6061/SiC/Gr composite using RSM, Asha, K., Muniappan, A., **Karunagaran, N., Bharathiraja,G., IOP Conference Series: Materials Science and Engineering**, 2020, 912(3), 032072
9. A review on effect of filler material on Mechanical and thermogravimetric Analysis of GFRP composite, G.MurthujaHussain, **Dr.N.Karunagaran,Journal Of Critical Reviews**,vol 7, issue 06, 2020
10. Interlaminar shear strength behaviour of surface treated steel wire mesh / glass fibre reinforced hybrid composite laminate**Karunagaran N , Bharathiraja G , Muniappan A , NanthaKumar P, Materials Today : Proceedings**, Volume 46, Part 9, 2021, Pages 3993-3996
11. Micro Structural and Tensile Behaviour of FS Welded Dissimilar Al-Cu Alloy R.Pandiyarajan , G.Balaji , B.Navin Kumar, J.Vijayarangamd , A.Vasudevan , N. **Karunagaran , T. Sathish , P. Nanthakumar, Materials Today : Proceedings**, Volume 46, Part 9, 2021, Pages 4309-4312
12. Design and Fabrication of Bamboo Composites Sandwich Panels for Flooring B. Navin Kumar, J. Vijayarangam , A. Vasudevan , R. Pandiyarajan , G. Balaji , N. **Karunagaran , T. Sathish , P. Nanthakumar, Materials Today : Proceedings**, Volume 46, Part 9, 2021, Pages 4313-4321
13. Optimization of oxy-acetylene flame hardening parameters to analysis the surface structure of low carbon steel J.Thamilarasan ,N.**Karunagaran , P.Nanthakumar, Materials Today : Proceedings**, Volume 46, Part 9, 2021, Pages 4169-4173
14. Low velocity impact behaviour of surface treated glass fibre reinforced epoxy matrix hybrid composites, K.S. Mohammed Sohail,, N. **Karunagaran, J. Allen Jeffre, Materials Today : Proceedings**, Available online 31 July 2021, <https://doi.org/10.1016/j.matpr.2021.07.085>

15. Effect of Filler Material on Mechanical and Thermogravimetric Analysis of GFRP Composite , G. Murthujal Hussain, and **N. Karunakaran** , **Journal of Physics: Conference Series** , 1964 (2021) 062099 , IOP Publishing doi:10.1088/1742-6596/1964/6/062099
16. Experimental investigation of azadirachtaindicagum blended bio-polymer composite
M.G. VikneshKumar, G.Bharathiraja, **N.Karunakaran**,A.Muniappan, **Materials Today Proceedings**,Available online 13 July 2021, <https://doi.org/10.1016/j.matpr.2021.07.036>
17. A Review on Low Velocity Impact Behaviour of Hybrid Composites, KS Mohammed Sohail1, **Dr.N.Karunagan**, **Design Engineering**,Issue: 9 ,Pages: 6795 – 6800, 2021.
18. Optimization of Drilling Process Parameters on Epoxy Matrix Hybrid Composite Laminate Reinforced With GlassFibre /Stainless Steel Wire Mesh **N. Karunakaran**, C. Thiagarajan, T. Shaafi, R. Suthan, A. Thanikasalam, A. Muniappan, **AIP Conference Proceeding 2022**, Accepted for Publication
19. Thermo-Gravimetric Analysis on Stainless Steel Mesh Wire / Glass Fibre Strengthened Epoxy Matrix Hybrid Composite Laminate **N. Karunakaran**, T. Shaafi, C. Thiagarajan , R. Suthan, G. Ramya Devi A. Thanikasalam, **AIP Conference Proceeding 2022**, Accepted for Publication.
20. Measurement of surface roughness in drilling on epoxy matrix composite reinforced with E-Glassfibre and calophyllum inophyllum powder in comparison with plain GFRP epoxy composite. T.ChandanReddy, **N.Karunakaran**, **International Journal of Mechanical Engineering**, Vol. 7 (Special Issue, Jan.-Mar. 2022)
21. Influence of surface modification on tensile behavior of glass fibre/Stainless steel wire mesh reinforced hybrid composites, **Dr.N.Karunakaran**, Dr.J.Thiyagaraj, N.Manivel, Dogo Rangsang Research Journal, ISSN : 2347-7180, Vol – 13, Issue-3, No.1, March 2023.
22. Experimental investigation of azadirachtaindicagum blended bio-polymer composite
Kumar, M.G.V., Bharathiraja, G., Karunakaran, N., Muniappan, A.
Materials Today: Proceedings, 2023, 80, pp.2773–2776
23. Enhancement of flexural behaviour on epoxy matrix composite reinforced with kevlar fiber and butea monosperma filler in comparison with plain KFRP epoxy composite.Reddy,T.S.S.,**Karunakaran**,**N.AIP Conference Proceedings**, 2023,2822(1),020147
24. Izod impact behaviour on e-glass fibre reinforced with epoxy matrix addition of novel Butea Monosperma filler in comparison with plain GFRP epoxy hybrid composites.Avinash,S.,**Karunakaran**,**N.AIP Conference Proceedings**,2023,2822(1),020187

International Conferences :

1. **Karunagaran, N, Rajadurai, A & Saravanan, R** 2016, 'Influence of surface modification on tensile behavior of glass fibre/Stainless steel wire mesh reinforced hybrid composites', **International Conference on Materials, Design and Manufacturing Process**, (ICMDM '16), College of Engineering, Guindy, Anna University, Chennai, pp. 521-526.
2. **Karunagaran, N & Rajadurai, A** 2017, 'Interlaminar shear behavior of surface modified glass fibre/Stainless steel wire mesh reinforced hybrid composites', **International Conference on Design and Advances in Mechanical Engineering**, (ICDAME'17), S.K.P Engineering College, Tiruvannamalai.

National Conferences:

1. **Karunagaran, N** 2014, "Modification on surface texture of glass fibre / Stainless steel wire mesh by Various surface treatment Methods" **National Conference on Advances In Mechanical Sciences**, (AIMS'14), C. Abdul Hakeem College of Engineering And Technology, Melvisharam, Vellore.
2. **Karunagaran, N** 2014, "Effect of surface treatment on mechanical characterization of glass fibre and stainless steel mesh reinforced hybrid composites", **National Conference on Explore & Evolve the role of Mechanical in Industrial Growth**, (EERMIG'14), The Kavery Engineering College, Mecheri, Salem.

Awards and Other Activities:

- Awarded as **Best faculty** in the academic year of 2012 – 2013 at S.K.P Engineering College.
- Awarded as **Best faculty** in the academic year of 2007 – 2008, 2008 – 2009 and 2009 - 2010 at Arunai Engineering College.
- Merit Award "**Government of Tamilnadu Ramasamy Padayatchiar Endowment Scholarship** " at Annamalai University, Chidambaram on 2003.
- Involved in Various activities like Class Adviser, Counsellor, Subject mentor, Project co-ordinator, NBA & NAAC

Workshops / Seminar / Symposium / FDP (Organized / Attended) :

Role	Name of the program	Year
Participation	Two days Workshop on Solar power PV and EV Charging System	2022
Participation	Recent Trends in Chemical and Petrochemical Industries – 5 days Online FDP	2022
Participation	Fundamentals of Finite Element Analysis - Webinar	2020
Participation	Quizanthon – Online Mechanical Quiz	2020
Participation	Modelling and Computational Techniques for Multiphase Systems - AICTE sponsored Online STTP	2020
Participation	Instructional Strategies for Effective Online Teaching of Engineering Graphics – Two days online Workshop	2020
Participation	One day national level work shop on Industry 4.0 : Smart manufacturing system	2019
Participation	Workshop on Intellectual Property Rights	2019
Participation	Training Program on Mentorship	2016
Participation	One Day Workshop on Recent trends in AWJM	2016
Participation	One Day Work Shop on The Art of Writing Research Article and Publication	2016
Participation	National Level Seminar on Recent Advances in Orthopedic Implants Using Nanotechnology	2016
Participation	National Workshop on Materials for Automotive Industries	2015
Session chair	State level Technical Symposium	2015
Participation	FDP on Unconventional Machining Process	2013
Participation	Emerging Trends in Alternate Fuels and Automotive Electronics	2012
Participation	International Conference on Design and Advances in Mechanical Engineering	2011
Participation	Annual Technical Paper Contest	2009

Co-ordinator	Two day workshop on Mechanical-Automation	2009
Participation	FDP on Total Quality Management	2007
Participation	National Conference on Modelling and Simulation in Manufacturing	2003
Participation	Educational Utilization of standards Programme	2003

Life Membership :

The Indian Society for Technical Education (LM - 57401)

It is certified that all the information provided are true to the best of my knowledge.


Signature of the Faculty

(Endorsement by the Principal)



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