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Present Position

Associate professor, Department of Mechanical Engineering, College of Engineering Guindy, Anna University, Chennai from August-2016.

Present Additional Responsibility

- > Deputy Warden, Boys Hostel, Anna University, Chennai from December-2021.
- > Programme Officer, National Service Scheme, Anna University, Chennai from July-2010.
- > Student Counsellor, Department of Mechanical Engineering, Anna University, Chennai from January-2008.

Previous Positions

- > Assistant Professor, Division of Engineering Design, College of Engineering Guindy, Anna University, Chennai during December-2007 and August-2016.

Previous Additional Responsibility

- > Deputy Director, Centre for Research, Anna University, Chennai during September-2015 and October-2018.
- > Resident Counselor, Boys Hostel, Anna University, Chennai during July-2011 and July-2015.

Other Employment

- > Assistant Professor, Mailam Engineering College for 4 years.
- > Lecturer, Thiruvalluar Engineering College for 5 years.

Degree

- ❖ M.E. in ENGINEERING DESIGN , Kongu Engineering College, Bharathiar University (1997 - 1998).

- ❖ B.E. in MECHANICAL ENGINEERING , PSNA College of Engineering, Madurai Kamaraj University (1995 - 1997).

Research Degree

- ❖ Ph.D. in Composite Materials from Faculty of Mechanical Engineering, College of Engineering, Guindy, Anna University (2006 - 2014).
Title: EXPERIMENTAL STUDIES ON THE MECHANICAL BEHAVIOUR OF STITCHED AND UNSTITCHED GLASS/EPOXY FIBRE REINFORCED LAMINATES .

Area of Specialisation

- Engineering Design, Composite Materials, Fracture and Fatigue

Membership in Professional Organization

- Society of Automotive Engineers (SAE)
- Indian Society for Technical Education (MISTE-LM 49921)
- Indian Society of Systems for Science & Engineering (ISSE-LM01506)

Research Guidance

Number of Ph.D Scholars Guided	: 2
Number of Ph.D Scholars Guiding	: 5
Number of M.E./ M.Tech. Projects Guided	: 40
Number of M.E./ M.Tech. Projects Guiding	: 5
Number of Ph.D Scholars Guided as Joint-Supervisor	: 2

Papers Published in Journals

Research Papers Published in International Journals	: 28
Research Papers Published in National Journals	: 0

1. R Muruganandhan, Velamurali, " Buckling analysis of stitched and unstitched glass epoxy composites", Advanced Materials Research , published by Trans Tech Publisher . Vol. 337, pp. 594-597 (2011).
2. R Muruganandhan and Velamurali, " Experimental And Finite Element Analysis Of Mechanical Response On Unidirectional Glass Fibre Epoxy Laminate", International Journal of Applied Research in Mechanical Engineering, published by Interscience. Vol. 1, Issue 1, pp. 100-104 (2011).

3. Muruganandhan R and Vela Murali, "Mode-I and Impact studies on Stitched and Unstitched Glass/Epoxy Composite Laminate", *Procedia Engineering*, published by Elsevier publications. Vol. 38, pp. 2207-2212 (2012).
4. Arun A, Muruganandhan R, Saravanan, "Synthesis and Properties Evaluation of Biopolymer Composites", *International Journal of Innovative Research in Science, Engineering and Technology*, Vol. 4, pp. 111-114 (2015).
5. Vignesh. M, Muruganandhan R, Dasari. N, Nagarajan, "Study of Torsional Response on the Rotor Shaft of a Rotavator under Transient Load Conditions", *International Journal of Innovative Research in Science, Engineering and Technology*, Vol. 4, pp. 185-190 (2015).
6. Muruganandhan R, Velamurali, " Low Velocity Impact Analysis on Stitched and Unstitched Laminates ", *Asian Journal of Research in Social Sciences and Humanities, Category:Science and Technology*, published by Asian Research Consortium. Vol. 6, Issue 6, pp. 752-765 (2016).
7. Rajasekaran,B. Kumar, R. Muruganandhan, S. V. Raman, Usha Antony, " Determination of forced convection heat transfer coefficients and development of empirical correlations for milk in vessel with mechanical agitators", *Journal of Food Science and Technology*, published by Springer. Vol. 55, Issue 7, pp. pp 2514-2522 (2018).
8. R. Muruganandhan,M. Mugilvalavan,K. Thirumavalavan & N. Yuva, " Investigation of water jet peening process parameters on AL6061-T6", *Surface Engineering*, published by Taylor & Francis Group. Vol. 34, Issue 4, pp. 330-340 (2018).
9. S. Prabhakaran, R. Muruganandhan, S. Karthikeyan & M. Mugilvalavan, " Bio-Oil Produced from Paper Waste and Paper Cup using Pyrolysis Process ", *International Journal of Mechanical and Production Engineering Research and Development*, published by Trans Stellar. Vol. 8, Issue 7, pp. 1251-1256 (2018).
10. G.Shibu. M.Abeens. Maryam Soleimani. Pramnath M, Raja Sekaran E, Muruganandhan R., " Investigation the Mechanical Properties of Cow Horn Composite based on Al7075 T651", *Interciencia*, published by Interciencia. pp. 232 to 242 (2019).
11. G.Shyam Shendr,M.Abeens,R.Muruganadhan,M.Arivanandhan,M.Premnath,E.Rajasekaran, " Investigation of nano ceramics added bismuth antimony telluride for energy harvesting applications", *Materials Today:Proceedings*, published by Elsevier Ltd. Vol. 22, pp. 879 - 883 (2019).
12. M. Abeens, R. Muruganandhan and K. Thirumavalavan, " Comparative Analysis of Different Surface Modification Processes on AA 7075 T651", *OP Conference Series: Materials Science and Engineering* , published by IOP science. Vol. 574, Issue 1, (2019).
13. K Thirumavalavan, Sastry C Chandrasekhar, Abeens M, R Muruganandhan and M A Muthu Manickam, " Study on the influence of process parameters of severe surface mechanical treatment process on the surface properties of AA7075 T651 using TOPSIS and Taguchi analysis", *Materials Research Express*, published by IOP science. Vol. 6, Issue 11, (2019).
14. Abeens R. Muruganandhan,S.Arulvel, "Friction-wear behavior of shot peened aluminum 7075-T651 alloy", *Indian Journal of Engineering & Materials Sciences* , published by CSIR-NISCAIR PUBLICATIONS . Vol. 26, pp. 20-26 (2019).

15. T Manikandan , A.Siddharthan, R.Muruganandhan , C. Pugazhendhi Sugumaran, " Influence of Amine-functionalised graphene oxide filler on mechanical and insulating property of epoxy nanocomposites", Materials Research Express, published by Institute of Physics Publishing. Vol. 6, Issue 9, pp. 1-20 (2019).
16. Abeens R. Muruganandhan K. Thirumavalavan S. Kalainathan, " Surface modification of AA7075 T651 by laser shock peening to improve the wear characteristics", Materials Research Express, published by IOP Publishing . Vol. 6, Issue 6, pp. 1-13 (2019).
17. R.Muruganandhan,V.VijayaRajan, " Impact Analysis of Carbon/Glass/Epoxy Hybrid Composite Pipes", International Journal of Recent Technology and Engineering Issue-, published by Blue Eyes Intelligence Engineering & Sciences Publ. Vol. 8, Issue 4, pp. 6002 to 6006 (2019).
18. E Rajasekaran, B Kumar, R Muruganandhan, SV Raman, G Nandhini Devi, " CFD simulation of convective heat transfer in vessel with mechanical agitation for milk", Journal of Food Science and Technology, published by Springer India. Vol. 57, Issue 10, pp. 3667-3676 (2020).
19. M. Abeens, R. Muruganandhan and K. Thirumavalavan, "Effect of Low energy laser Shock peening on plastic deformation, wettability and corrosion resistance of aluminium alloy 7075 T651", Optik, published by Elsevier. (2020).
20. Kumar D, Muruganandhan R , Thirumavalavan K, "Optimization of Mechanical and Thermal Properties of Bio-Waste Horn Powder Reinforced Phenol Formaldehyde Composites", Interciencia, published by Interciencia. Vol. 1, Issue 45, pp. 263 to 280 (2020).
21. Manikandan Thangaraj, Siddharthan Arjunan, Muruganandhan Radha Krishnan & Pugazhendhi Sugumaran Chelladurai, "Heat tolerant epoxy-amine functionalized graphene oxide composites for insulation applications", Journal of Adhesion Science and Technology, published by Taylor & Francis Group. (2020).
22. M. Abeens,M. Meikandan, Jaffar Sheriff & R. Muruganadhan, " Experimental analysis of convective heat transfer on tubes using twisted tape inserts, louvered strip inserts and surface treated tube", International Journal of Ambient Energy, published by Taylor & Francis Group. pp. 1-15 (2020).
23. Kumar D, Kiran Shahapurkar, C. Venkatesh , Muruganandhan R , Vineet Tirth , Chandru Manivannan , Ibrahim M. Alarifi , Manzoore Elahi M. Soudagar and Ahmed S. El-Shafay, "Influence of Graphene Nano Fillers and Carbon Nano Tubes on the Mechanical and Thermal Properties of Hollow Glass Microsphere Epoxy Composites", Processes, published by MDPI. Vol. 10, Issue 40, pp. 1-14 (2021).
24. Abeens M and R Muruganandhan, "Investigation of corrosion behavior on plastically deformed AA 7075 T651 by shot peening process", Surface Topography: Metrology and Properties, published by IOP Publishing. Vol. 9, Issue 4, (2021).
25. Yuvaraj N.,Shamli C.S.,Mughilvalavan M.,Muruganandhan R., "Abrasive Water Jet Piercing of Superalloys: A Study of Small Diameter Deep Holes", Lecture Notes in Mechanical Engineering, published by Springer Science and Business Media Deutschland GmbH. Vol. 51, pp. 183 - 196 (2021).

26. A. Sekar, R. Muruganandhan, "Effect of synthesis technique on developing lanthanum magnesium hexaluminat e powders as an alternative for thermal barrier coating", *Ceramics International*, published by Elsevier publications. Vol. 47, Issue 14, pp. 19567-19574 (2021).
27. M Abeens, K Thirumavalavan, E Rajasekaran, R Muruganandhan, M Premnath and D Sarukasan, "An investigation on the effect of stacking fault energies on surface mechanical treatment process of AA6061 alloy and ETP-copper", *Surface Topography: Metrology and Properties*, published by IOP Publishing Ltd. Vol. 9, Issue 3, pp. 1-9 (2021).
28. M Premnath, R Muruganandhan, M Abeens, " A study on the effect of various process parameters on low pulsed energy of laser shock peening without ablative layer on the mechanical behavior of AA 7075 T651", *Surface Topography: Metrology and Properties*, published by IOP Publishing. Vol. 10, pp. 1-12 (2021).

Papers Presented in Programmes

Research Papers Presented in International Programmes : 6
Research Papers Presented in National Programmes : 1

1. V. Gopalakrishnan, R. Muruganandham , Velamurali, "Buckling analysis of stitched and unstitched glass" presented in a National level conference on IPRoMM 2009 , organised by IITM, India from 10-Jul-2009 to 11-Jul-2009.
2. Muruganandhan, R. and Velamurali, "Finite element analysis on buckling strength of st" presented in a International level conference on ICMPMT 2011, organised by Petroleum , China from 28-Oct-2011 to 30-Oct-2011.
3. "Mode I fracture characteristics on glass and hybri" presented in a International level conference on AMPC2013, organised by Anna University, India from 06-Feb-2013 to 08-Feb-2013.
4. V. Gautham Dhayal Rayan and R.Muruganathan, "Analysis of Mode-I Fracture Toughness on Linearly Varying Width Tapered Double Cantilever Composite Beams" presented in a International level conference on International Conference on Sustainable Manufacturing, organised by Coimbatore Institute of Technology, India from 29-Jul-2013 to 31-Jul-2013.
5. V.Vijaya Rajan and R.Muruganathan, "Low Velocity Impact Analysis of Carbon/Glass/Epoxy Hybrid Composite Pipes" presented in a International level conference on International Conference on Sustainable Manufacturing, organised by Coimbatore Institute of Technology, India from 29-Jul-2013 to 31-Jul-2013.
6. Shanmuga Sundaram K, Prakash M, Ramachandiran A, Muruganandhan R, "Computer Assisted Design and Analysis of Shedding Mechanism of Powerloom Machineries" presented in a International level conference on International Mechanical Engineering Congress & Exposition 2015, organised by ASME, Houston,Texas,USA from 13-Nov-2015 to 18-Nov-2015.
7. "Simulation Driven Product Development of a Bottom Platform of a Wind Turbine" presented in a International level conference on Innovative Trends in Technology and Management(ICITM-17), organised by Kalasalingam University, India from 30-Mar-2017 to 31-Mar-2017.

Sponsored Projects Completed

1. "Detailed Survey and Preparation of Energy Plan for 3 Selected Village clusters", funded by TEDA (June-2006 - October-2007). Project Cost: 350000.00.

Programme Chaired

1. Chairman, International level conference titled "First International Conference on Materials, Design and Manufacturing Process(ICMDM 2016)" conducted by CEGC, Anna University from 17-Feb-2016 to 19-Feb-2016.
2. International level conference titled "3rd International Conference on Innovative Design, Analysis & Development Practices in Aerospace and Automotive Engineering" conducted by Veltech Dr RR & SR University, Chennai from 22-Feb-2018 to 24-Feb-2018.
3. Chairman, International level conference titled "2nd International Conference on Advances in Mechanical Engineering (ICAME-2018)" conducted by SRM University, Chennai from 22-Mar-2018 to 24-Mar-2018.
4. Chairman, International level conference titled "IEEE- International Conference on Systems, Computation and Networking" conducted by Manakula Vinayagar Institute of Technology from 06-Jul-2018 to 07-Jul-2018.
5. Chairman, National level conference titled "AICTE sponsored Two days National Conference on Challenges and Innovations in 3D Printing of Composite materials " conducted by M.P.Nachimuthu M.Jaganathan Engineering Collage from 28-Jan-2022 to 28-Jan-2022.

Programme Organized

1. Co-ordinator, National level Short Course on "Computer Aided Design" from 01-Jun-2005 to 11-Jun-2005.
2. Co-ordinator, National level Short Course on " Computer Integrated Manufacturing" from 11-Jun-2007 to 23-Jun-2007.
3. Co-ordinator, National level workshop on "UGC Sponsored awareness program on Computer Education to Rural People" from 20-Mar-2013 to 20-Mar-2013.
4. Co-ordinator, National level Short Course on "CFD Anna University Sponsored FDP on Design of Machine Elements" from 10-Jun-2015 to 18-Jun-2015.
5. Organiser, National level workshop on "Healthy Youth for Healthy India" from 20-Jun-2015 to 26-Jun-2015.
6. Organiser, National level workshop on "UGC Sponsored awareness program on Awareness Creation among the rural masses about the Safety of Nuclear Energy" from 25-Sep-2015 to 25-Sep-2015.
7. Co-ordinator, National level workshop on "Efficient Product Design for Manufacture & Assembly" from 01-Apr-2016 to 02-Apr-2016.

8. Co-ordinator, National level Short Course on "Healthy Youth for Health India" from 22-Jun-2016 to 26-Jun-2016.
9. Organiser, National level workshop on "Healthy Youth for Healthy India" from 22-Jun-2016 to 28-Jun-2016.
10. co-coordinator, International level conference on "International Conference on Recent Trends in Applied Science and Technology" from 08-Sep-2017 to 09-Sep-2017.
11. Coordinator, National level Short Course on "Design of Machine Elements" from 25-May-2018 to 31-May-2018.
12. Coordinator, National level Short Course on "AICTE-AU STTP on Computer Aided Design and Manufacturing" from 02-Dec-2019 to 06-Dec-2019.
13. Coordinator, National level Short Course on "AICTE-AU STTP on Finite Element Analysis" from 16-Dec-2019 to 20-Dec-2019.

Programme Attended

1. Attended a National level seminar on "Energy Conservation Bill Impact on Small and medium scale industries" organized by Anna University, India from 17-Dec-2001 to 17-Dec-2001.
2. Attended a National level seminar on "Recent Trend in Quality and system" organized by Anna University, India from 04-Jan-2002 to 05-Jan-2002.
3. Attended a National level seminar on "Professional Ethics" organized by Mailam Engg. College, India from 31-Jul-2004.
4. Attended a National level Short Course on "Advances in Welding Engineering" organized by R.V.S.Engineering College and Sponsored by AICTE, India from 01-Jun-2005 to 11-Jun-2005.
5. Attended a National level Short Course on "Finite Element analysis- Non Linear Program." organized by P.E.S.College of Engineering, India from 11-Jul-2005 to 22-Jul-2005.
6. Participated in a International level conference on "ICMPMT 2011" organized by Petroleum , China from 28-Oct-2011 to 30-Oct-2011.
7. Participated in a National level workshop on "Advanced Metrology in Manufacturing Engineering" organized by Department of Manufacturing Engineering, India from 30-Oct-2014 to 31-Oct-2014.
8. Participated in a National level workshop on "Advanced Characterisation Techniques of Materials" organized by Department of Mechanical Engineering, India from 23-Feb-2015 to 24-Feb-2015.
9. Participated in a National level workshop on "Recent Trends in Mechatronics" organized by Department of Mechanical Engineering, India from 26-Feb-2015 to 27-Feb-2015.
10. Attended a National level Short Course on "Design of Machine Elements" organized by Center for Faculty Development, India from 10-Jun-2015 to 18-Jun-2015.

11. Participated in a National level workshop on "Engineering Critical Thinking" organized by Department of Mechanical Engineering, India from 30-Sep-2015.
12. Participated in a International level conference on "International Mechanical Engineering Congress & Exposition 2015" organized by ASME, Houston,Texas,USA from 13-Nov-2015 to 18-Nov-2015.
13. Participated in a National level workshop on "Change Management Capacity Building to Improve Quality of Service" organized by Anna University, India from 23-Feb-2016.
14. Attended a National level seminar on "Orientation Programme for NSS Officers" organized by NSS Cell, India from 23-Feb-2016 to 23-Feb-2016.
15. Attended a National level seminar on "Workshop on Digital India" organized by NSS Cell,Anna University, India from 25-Feb-2016 to 25-Feb-2016.
16. Attended a National level Short Course on "National Integration Camp 2016" organized by NSS Regional Directorate,chennai, India from 02-May-2016 to 08-May-2016.
17. Attended a National level Short Course on "Healthy Youth for Health India" organized by College of Engineering, India from 22-Jun-2016 to 28-Jun-2016.
18. Participated in a International level workshop on "Advanced Functional Nanomaterials" organized by Center for Nanoscience & Technology, Anna University, India from 22-Mar-2017 to 24-Mar-2017.
19. Participated in a National level workshop on "The Essentials of IoT for Modern Mechanical Engineers" organized by Department of Mechanical Engineering, Anna University,Guindy, India from 15-Feb-2018 to 16-Mar-2019.
20. Participated in a National level workshop on "Quality Assurance in Higher Education Institutions" organized by IQAC,Anna University, India from 13-Mar-2018.
21. Participated in a International level workshop on "Additive Manufacturing " , India from 19-Mar-2018 to 20-Mar-2018.
22. Attended a National level Short Course on "NBA Accreditation Procedures" organized by Anna University,Guindy, India from 29-Oct-2018 to 31-Oct-2018.
23. Attended a National level Short Course on "Faculty Development Program for Student Induction (FDP-SI)" organized by College of Engineering Guindy, Anna University, Chennai organized by All India Council for Technical Education (AICTE), India from 10-Jun-2019 to 16-Jun-2019.
24. Attended a National level Short Course on "Managing Online Classes and Co-Creating MOOCS" organized by Ramanujan College, India from 20-Apr-2020 to 06-May-2020.
25. Attended a National level Short Course on "Outcome Based Education: A Step Towards Excellence" organized by Government College of Engineering, Karad (An Autonomous Institute of Government of Maharashtra), India from 11-May-2020 to 15-May-2020.

26. Attended a National level Short Course on "Comprehensive e-Learning to e-Training guide for Administrative Work" organized by Ramanujan College, India from 25-May-2020 to 05-Jun-2020.
27. Attended a National level Short Course on "Innovation, Entrepreneurship and its Relevance in Industry 4.0 Practices in the Post Covid-19 Situation" organized by Terna Engineering College Plot No. 12, Sector 22, Nerul, Navi Mumbai 400706, India from 25-May-2020 to 29-May-2020.
28. Attended a National level Short Course on "Corrosion and its Control" organized by Dr. D Y Patil Pratishthan's Dr. D Y Patil Institute of Engineering, Management & Research, Akurdi,Pune-44, India from 02-Jun-2020 to 04-Jun-2020.
29. Attended a National level Short Course on "Futuristic Technologies in Mechanical Industries" organized by Dr. D Y Patil Pratishthan's Dr. D Y Patil Institute of Engineering, Management & Research, Akurdi,Pune-44, India from 05-Jun-2020 to 09-Jun-2020.
30. Attended a National level Short Course on "Future Materials: Nanocomposites" organized by Bharati Vidyapeeth (Deemed to be University), College Of Engineering, Pune, India from 15-Jun-2020 to 21-Jun-2020.
31. Attended a National level Short Course on "Powder Metallurgy Technologies for 3D Printing" organized by Mepco Schlenk Engineering Collage, Sivakasi(Autonomous), India from 27-Jul-2020 to 01-Aug-2020.
32. Attended a National level Short Course on "Interdisciplinary Approach of Tribology in Engineering and Biomedical Research" organized by National Institute of Technology Silchar, Assam, India from 04-Aug-2020 to 08-Aug-2020.
33. Attended a National level Short Course on "Universal Human Values in Student Induction Programme" organized by College of Engineering Guindy, Anna University, Chennai , India from 09-Nov-2020 to 21-Nov-2020.

Honours

1. "Gold Medalist " given by Bharathiar University from India (1998).
2. "Best NSS Unit Award" given by Anna University from India (2019).
3. "Best NSS Programme Officer Award" given by NSS Cell,Anna University from India (2019).

Experience Abroad

1. Visited Hong Kong Industrial Technology Research Centre , China from 28-Oct-2011 to 30-Oct-2011. Purpose of visit :Paper Presentation.
2. Visited ASME Conference, Texas, Houston,USA from 13-Nov-2015 to 19-Nov-2015. Purpose of visit :Paper Presentation.

Invited Lectures

1. Delivered a Lecture on "Processing and Characterization of Composite Materials including Natural fiber Re-inforced Composites" in AICTE Sponsored Faculty Development Programme organized by Sai Ram Institute of Technology, Chennai (27-Mar-2015).
2. Delivered a Lecture on "Recent Trends in Metal Matrix Composite Materials" in 3rd International Conference on Advance Research and Innovation in Engineering and Science and Manag organized by ARS College of Engineering, Chennai (25-Mar-2017).
3. Delivered a Lecture on "Bio De-Gradable, Green and Composites for Industrial Applications: Manufacturing Methodologies and Properties" in AICTE Sponsored Faculty Development Programme organized by Sai Ram Institute of Technology, Chennai (25-Oct-2017).
4. Delivered a Lecture on "Digital Manufacturing and 3D Printing" in IET sponsored Faculty Development Programme organized by Easwari Engg College,, Ramapuram, Chennai-600089 (07-Sep-2018).
5. Delivered a Lecture on "Digital Manufacturing and 3D Printing" in Faculty Development Programme organized by Easwari Engineering College, chennai (07-Sep-2018).
6. Delivered a Lecture on "Introduction to Bearings and Design Process of Bearing" in Faculty Development Programme organized by Easwari Engineering College, Chennai (09-May-2019).
7. Delivered a Lecture on "CAD and FEA" in STTP on Computer Aided Engineering(CAE): Tools and Techniques organized by Pondicherry Engineering College, Puducherry (18-Nov-2019).
8. Delivered a Lecture on "Concepts of Applied Thermodynamics, Finite Element Analysis and Professional Ethics" in FDP organized by SRM Valliammai Engineering College, Online (11-Dec-2020).
9. Delivered a Lecture on "Recent Trends in Rapid Prototyping" in AICTE sponsored Two days National Conference on Challenges and Innovations in 3D Printing of Composi organized by M.P.Nachimuthu M. Jaganathan Engineering College, Erode, Tamil Nadu (28-Jan-2022).

Extension & Outreach Programme

1. Organiser, Computer Education to Rural People, participated by School students and public and funded by UGC XII Plan at Kandamangalam, Villupuram Dist. during 20-Aug-2013 and . No. of participants: 150.
2. Organiser, Awareness Creation among the rural masses about the Safety of Nuclear Energy, participated by Village People and funded by UGC at Kadappakkam during 25-Sep-2015 and 25-Sep-2015. No. of participants: 150.