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M. RAMACHANDRAN ME, MBA, (PhD), AMIE, MISTE, MRSI, ISME, FRPI, RSRI

OBJECTIVE

Become a highly skilled and research oriented faculty in the Research industry and to motivate the Researchers to perform their level best in their Research work

WORK EXPERIENCE (12+ Years)

1. **Currently working** as **Lead Research Scientist** in REST Labs, Kaveripattinam, Krishnagiri, Tamil Nadu from **01/12/2020**
2. **Six years and four months** Experience as **Assistant Professor** in Department of Mechanical Engineering, MPSTME, SVKM's Narsee Monjee Institute of Management Studies, Deemed to be University, Shirpur Campus, Maharashtra from **01.08.2014 to 30.11.2020**
3. **Four years'** Experience as **Assistant Professor** in Department of Marine Engineering, Noorul Islam Centre for Higher Education, Kanyakumari, Tamil Nadu from **26.08. 2010 to 26.07.2014**
4. **Six months** Experience as **Lecturer** in Department of Marine Engineering, Sri Nandhanam College of Engineering and Technology, Tirupathur, Tamil Nadu, from **27.02. 2010 to 25.08. 2010**
5. **Eight months** Experience as **Junior Engineer** in **M.V. Coastal Express II (BHP 8160)** General Cargo Carrier Ship, Fleet Management Private Limited, Chennai, Tamil Nadu from **17.07. 2009 to 13.02. 2011**
6. **One year** Experience as **Lecturer** in Department of Marine Engineering, GKM College of Engineering and Technology, Chennai, Tamil Nadu from **01.06. 2008 to 28.06.2009.**

ACADEMIC PROFILE

- 1.(2016-2019) Pursuing **PhD (Mechanical Engineering-Composite Materials)** in Nirma University, Gujarat(**Part time**)(**Course work completed with 9.73 CGPA**)
- 2.(2011-2013) Completed **M.E Computer Integrated Manufacturing** from Noorul Islam University, Kanyakumari, Tamil Nadu, first class with **8.13 CGPA (Regular)**
3. (2010-2011) Completed **MBA Human Resource Management** from Manonmanium Sundaranar University, Tirunelveli, Tamil Nadu, (**Distance**) **72%**
4. (2004-2008) Completed **B.E Marine Engineering** from PSN College of Engineering and Technology, Tirunelveli, Tamil Nadu, Anna university Chennai, first class with **69 % (Regular)**
- 5.(2002-2004) Completed **12th Standard** from Sri Vijay Vidhalaya Matriculation Higher Secondary School, Dharmapuri, Tamil Nadu State Board, First Class with **79% (Regular)**
6. (2001-2002) Completed **10th Standard** from Government Boys Higher Secondary School, Kaveripattinam, Tamil Nadu State board, first class with **69% (Regular)**

ACADEMIC IDENTITY

- 1.Web of Science : **D-5906-2015(Documents-14, citations-42, h index -4)**
- 2.Scopus Author ID : **56962721100(Documents-86, citations-351, h index -10)**
- 3.Google Scholar Id :**L3E3ByIAAAJ&hl (Documents-122, Citations-596, h index -14)**
- 4.ORCID Id : **0000-0002-5941-0536**
- 5.Publson ID:**521796 (80Reviews) (32 different journals)**
- 6.VIDWAN Expert Id : **51227**
7. Research Gate : **https://www.researchgate.net/profile/Ramachandran_Manickam**

AREA OF SPECIALIZATION

1. SAS-Data Analytics
2. ERP -SAP
3. Optimization techniques
4. Predictive Modelling
5. Fuzzy Logic Approach
6. Taguchi Optimization
7. Pro E Software
8. Ansys Software
9. Nano Coating
10. Composites Characterization
11. Biodegradable Composites

SUBJECT HANDLED

1. Material Engineering
2. CAD/CAM/CIM
3. Mechanical Measurement and Metrology
4. Engineering Drawing.
5. Mechatronics and Control.
6. Hydraulics & Pneumatics
7. Manufacturing Processes.
8. Strength of Materials.
9. Engineering Mechanics.

10. Boilers and Steam Engineering.
11. Principal of Management
12. Manufacturing Management.
13. Supply Chain Management.

PAPERS PUBLISHED IN WEB OF SCIENCE

1. N. Ganesh, P. Dutta, **M. Ramachandran**, A. K. Bhoi, K. Kalita, Robust metamodels for accurate quantitative estimation of turbulent flow in pipe bends, Engineering with Computers.36, 2020, 1041–1058[**IF:3.25**]

<https://doi.org/10.1007/s00366-019-00748-7>

2. Galgali, Varsha S., **M. Ramachandran**, and G. A. Vaidya. "Multi-objective optimal sizing of distributed generation by application of Taguchi desirability function analysis." SN Applied Sciences 1, no. 7 (2019): 742.

3. Kanak Kalita, U Ragavendran, **M. Ramachandran**, Akash Bhoi, Weighted sum multi-objective optimization of skew composite laminates, Structural Engineering and Mechanics, Vol. 69, No. 1 (2019) 21-31.[**IF:2.8**]

<https://doi.org/10.12989/sem.2019.69.1.021>

4. **M. Ramachandran**, U. Ragavendran, Vishal Fegade "Selection of Used Piston for Remanufacturing Using Fuzzy TOPSIS Optimization." Fuzzy Systems and Data Mining IV: Proceedings of FSDM 2018, vol 309 (2018): 61-67.

<https://doi.org/10.3233/978-1-61499-927-0-61>

5. U Ragavendran, Ranjan K. Ghadai, Akash Bhoi, **M. Ramachandran**, Kanak Kalita, Sensitivity Analysis and Optimization of EDM Process Parameters, Transactions- Canadian Society for Mechanical Engineering, 2018. [**IF:0.37**]

<https://doi.org/10.1139/tcsme-2018-0021>

6. M Ramachandran, Vishal Fegade, PP Raichurkar, Strategy Performance Evaluation of a Port

Organization based on Multi-Criteria Decision Making using Fuzzy Logic Method, NMIMS Management Review, 2017, 33,27-34.

7.P. M. Bhagwat, **M. Ramachandran**, Pramod Raichurkar, Mechanical Properties of Hybrid Glass/Carbon Fiber Reinforced Epoxy Composites, Materials Today: Proceedings, 4(8), 2017:1788–1793

<https://doi.org/10.1016/j.matpr.2017.07.067>

8.Shajit Yadav, **M.Ramachandran**, Analysis of Optimized Wind Turbine Failure Using Computational Fluid Dynamics, Materials Today: Proceedings, 4(2), 2017:1788–1793

<https://doi.org/10.1016/j.matpr.2017.02.021>

9. Sahas Bansal, **M. Ramachandran**, Pramod Raichurkar, Comparative Analysis of Bamboo using Jute and Coir Fibre Reinforced Polymeric Composites, Materials Today: Proceedings,4(2), 2017, 3182–3187. Elsevier,

<https://doi.org/10.1016/j.matpr.2017.02.203>

10.Kanak Kalita, **M. Ramachandran**, Pramod Raichurkar, S. Haldar, Free Vibration Analysis Of Laminated Composites By A Nine Node Isoparametric Plate Bending Element, Advanced Composites Letters, 25(4), 2016.[**IF:0.422**]

PAPERS PUBLISHED IN SCOPUS INDEXED JOURNALS

11.**Ramachandran M**, B. A. Modi, Optimization of Molding Process Parameter for Jute Reinforced Poly Lactic Acid Composite, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 71, 2020, 117-124.

<https://doi.org/10.37934/arfmts.71.1.117124>

12.Dhairysheel Ambhore, Akash Tiwari, Ujval Patel, Jishnu Patil, **M. Ramachandran**, Effect of Aluminium oxide Nano filler in Tetrafluoroethane (R-134a) Refrigerant, IOP Conference Series: Material Science and Engineering, **810** (2020) 012018.

<https://doi.org/10.1088/1757-899X/810/1/012018>

13.Nishita bhise, **M. Ramachandran**, Design and Numerical evaluation of crankshaft of diesel engine for total deformation and strain IOP Conference Series: Material Science and Engineering, 810 (2020) 012010.

<https://doi.org/10.1088/1757-899X/810/1/012010>

14.Sahil Jain, Prita Rathi, **Ramachandran M**, Investigation of a Magnet falling through a copper tube IOP Conference Series: Material Science and Engineering, 810 (2020) 012042.

<https://doi.org/10.1088/1757-899X/810/1/012042>

15.Sahil Jain, Ritika Das, **Ramachandran M**, Review on Mechanical, Thermal and Morphological Characterization of Sisal Fibre Composite, IOP Conference Series: Material Science and Engineering, **810** (2020) 012074.

<https://doi.org/10.1088/1757-899X/810/1/012074>

16.Mehul Nautiyal, Aditya Shrinet, **Ramachandran M**, Mechanical, Thermal and Morphological Characterization of Basalt Fibre Composite- A Review IOP Conference Series: Material Science and Engineering, 810 (2020) 012043.

<https://doi.org/10.1088/1757-899X/810/1/012043>

17.Tejas Pawar, Yogeshwar Chaudhari, Pradip Jamadar, **M. Ramachandran**, Numerical evaluation of Knuckle Joint with stainless steel material for total deformation and Von Mises analysis, IOP Conference Series: Material Science and Engineering, 810 (2020) 012062.

<https://doi.org/10.1088/1757-899X/810/1/012062>

18.**Ramachandran M** and B. A. Modi, Stress Concentration Factor for Jute Fibre Reinforced PLA Composite Plate with Circular Cut-out and its Effect on Coconut Shell Powder, IOP Conference Series: Material Science and Engineering, 810 (2020) 012082.

<https://doi.org/10.1088/1757-899X/810/1/012082>

19.Shannay Rawal, **M. Ramachandran**, Effect of fire retardancy materials in fibre reinforced composite plate for false ceilings- A Review, IOP Conference Series: Material Science and Engineering, 810 (2020) 012023.

<https://doi.org/10.1088/1757-899X/810/1/012023>

20. Rachel Reuben, Parth Joshi, **Ramachandran M**, Effect of Copper Nano Powder on Kevlar Fiber Reinforced Epoxy Resin Composites, IOP Conference Series: Material Science and Engineering, 810 (2020) 012053.

<https://doi.org/10.1088/1757-899X/810/1/012053>

21. Divyansh Sankhla, Mihir Sancheti, **M. Ramachandran**, Review on Mechanical, Thermal and Morphological Characterization of Hemp Fiber Composite, IOP Conference Series: Material Science and Engineering, 810 (2020) 012070.

<https://doi.org/10.1088/1757-899X/810/1/012070>

22. S. Senthil Kumar, C. Bibin, **M. Ramachandran**, Design and Analysis of Hydrogen Storage Tank with Different Materials by Ansys IOP Conference Series: Material Science and Engineering, 810 (2020) 012016.

<https://doi.org/10.1088/1757-899X/810/1/012016>

23. Savita Ranba Sonwane, **M. Ramachandran**, Mapping & Analyzing Mechanical Properties of Dental Restorations with Product Composition, IOP Conference Series: Material Science and Engineering, 810 (2020) 012058.

<https://doi.org/10.1088/1757-899X/810/1/012058>

24. Vishal Fegade, Shannay Rawal, **M. Ramachandran**, Metamodel-based parametric study of composite laminates IOP Conf. Series: Materials Science and Engineering, 810(2020): 012051

<https://doi.org/10.1088/1757-899X/810/1/012051>

25. **M. Ramachandran**, Jishnu Patil, Sidakdeep Singh Luthra, Ahmed Walija, the total deformation analysis of composite steel helical spring using numerical investigation, International Journal of Mechanical and Production Engineering Research and Development, 2018, December, 144-149.

26. Dhruv Mehendiratta, **M. Ramachandran**, A review on different propellant materials for space vehicles and their characterisation, International Journal of Mechanical and Production Engineering Research and Development, 2018, December, 93-102.

27. Pramod Raichurkar, **M. Ramachandran**, V. Subramaniam, The structural and mechanical properties of the crepe-de-chine fabrics material, International Journal of Mechanical and Production Engineering Research and Development, 2018, December, 103-108.

28. Tejas Shenoy, **M. Ramachandran**, A review on various techniques to analyse faults in roller bearings, International Journal of Mechanical and Production Engineering Research and Development, 2018, December, 150-155.

29. Yugal Bagrecha, Raj Tailor, **M. Ramachandran**, P. Raichurkar, An effect of banana fiber size on banana fiber reinforced epoxy composites with coconut shell powder as filler, International Journal of Mechanical and Production Engineering Research and Development, 2018, December, 150-155.
30. Ayush Chaturvedi, **M. Ramachandran**, Sunil Patil, Investigation of various materials utilised for pneumatic muscle arm, International Journal of Mechanical and Production Engineering Research and Development, 2018, December, 173-180.
31. Shubham Paliwal, **M. Ramachandran**, Vishal Fegade, Numerical investigation of rack and pinion for total deformation and von mises analysis, International Journal of Mechanical and Production Engineering Research and Development, 2018, December, 83-86.
32. Debashish Sinha, **M. Ramachandran**, An Investigation of Stress and Strain Distribution of Planetary Gear System using Numerical Analysis, International Journal of Mechanical and Production Engineering Research and Development, 2018, December, 167-172.
33. Vishal Fegade, Ragavendran, U., **M Ramachandran**, Numerical investigation of hybrid helical spring for total deformation and von mises analysis, International Journal of Mechanical and Production Engineering Research and Development, 2018, December, 181-186.
34. Shannay Rawal, **M Ramachandran**, Vishal Fegade, U Ragavendran, Simplification of Home Automation System Using Various Sensors, Actuators and Control System, International Journal of Engineering & Technology, 2018, 7(3.1)174-177.
35. U Ragavendran, **M Ramachandran**, Low Power and Low Complexity Flip-Flop Design using MIFGMOS, International Journal of Engineering & Technology, 2018, 7(3.1), 183-185.
36. Anupama Rajput, Pradip Jamadar, **M. Ramachandran**, Vishal Fegade, Characterization of Banana Fiber Reinforced with PLA Composites and its Effect on Copper Nano Powder, International Journal of Mechanical and Production Engineering Research and Development, 2018, August, 42-50.
37. Jeevan Kittur, **M. Ramachandran**, Vishal Fegade, U Ragavendran Numerical Investigation of Total Deformation in roller Bearing using Ansys Analysis, International Journal of Mechanical and Production Engineering Research and Development, 2018, August, 51-58.
38. U Ragavendran, **M Ramachandran**, Low Power and Low Area Junction-less Tunnel FET Design, International Journal of Engineering & Technology, 2018, 7(3.1), 155-157.

- 39.Ramanan. G, Rajesh Prabha.N, Diju Samuel.G, Jai Aultrin. K. S, **M Ramachandran**, Prediction of Machining Characteristics of Hybrid Composites Using Response Surface Methodology Approach, International Journal of Engineering & Technology, 2018, 7(3.1), 162-165.
- 40.U Ragavendran, **M Ramachandran**, Multistage current starved VCO for switching applications, International Journal of Mechanical and Production Engineering Research and Development, 2018, August, 7-13.
- 41.Vishal Fegade, Gajanan Jadhav, **M. Ramachandran**, Design, Modelling and Analysis of Tilted Human Powered Vehicle, IOP Conf. Series: Materials Science and Engineering 377 (2018) 012215.
<http://dx.doi.org/10.1088/1757-899X/377/1/012215>
- 42.Krishna Kumar Gupta, **M. Ramachandran**, Effect of Ethylene glycol as Phase Change Material in a Cold Storage Unit on retention of cooling, IOP Conf. Series: Materials Science and Engineering 377 (2018) 012190.
<http://dx.doi.org/10.1088/1757-899X/377/1/012190>
- 43.Ashish Mogra, **M. Ramachandran** and Hemant Kumar Mehta, Experimental Investigation on Droplet Formation through a Minichannel Y- Junction, IOP Conf. Series: Materials Science and Engineering 377 (2018) 012189.
<http://dx.doi.org/10.1088/1757-899X/377/1/012189>
- 44.**M.Ramachandran**, Akshay Ahuja, Mohit Arora, Sanchit Verma, Review on Characterization of Various Poly Lactic Acid based Biodegradable Composites. Juniper Online Journal Material Science, 2018; 4(1): 555626.
<http://dx.doi.org/10.19080/JOJMS.2018.04.555626>
- 45.Nemade, Varsha, Bhavna Sharma, **M. Ramachandran**, and Vishal Fegade. "Developing communication skill in a rural pharmacy college." Journal of Pharmacy Research, Vol 12, no. 4 (2018): 536.
- 46.U. Ragavendran, **M. Ramachandran**, Low power VLSI architecture for LTeX binary to gray converters, 3rd International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT), 2017

<http://dx.doi.org/10.1109/ICATCCT.2017.8389115>

47.V. S. Galgali, **M. Ramachandran**, G. A. Vaidya, Techniques for Optimal Placement and Sizing of Distributed Energy Resources: a Review, International Review of Automatic Control, Vol 10, No 6 (2017)

<https://doi.org/10.15866/ireaco.v10i6.14154>

48.Ramanan, G., J. Edwin Raja Dhas, and **M. Ramachandran**. "Optimization of Material Removal Rate and Surface Roughness for Wire Electric Discharge Machining of AA7075 Composites using Grey Relational Analysis." International Journal of Vehicle Structures and Systems 9, no. 5 (2017).

49.Partha Protim Das Priyank, Kumar Ghadai, **M. Ramachandran**, KanakKalita, Optimization of Turning Process Parameters by Taguchi-Based Six Sigma, Mechanics and Mechanical Engineering, 21(3):649-656, 2017.

50.Anupama Rajput, **M. Ramachandran**, V D Gotmare, P. Raichurkar Recent Bioactive Materials for Development of Eco-friendly Dippers: An Overview Journal of Pharmaceutical Sciences and Research, 9(10): 1844-1848, 2017

51.**M. Ramachandran**, Vishal Fegade, Ragavendran U Parameters Optimisation For Drilling Of Austenitic Stainless Steel By Taguchi Method Using Desirability Function Analysis International Journal of Mechanical Engineering and Technology, 8(11), 2017.

52. Ragavendran U, Viral Mehta, Vishal Fegade, **M. Ramachandran**, Dynamic Analysis Of Single Fold Symmetric Composite Laminates, International Journal of Civil Engineering and Technology, 8(11):536-545, 2017

53.P. M. Bhagwat, **M. Ramachandran**, Pramod Raichurkar, Mechanical, thermal and morphological characterization of coir reinforced poly butylene succinate composite, International Journal of Mechanical Engineering and Technology, Volume 8, Issue 7, July 2017, pp. 405–413.

54.G. Ramanan, J. Edwin Raja Dhas, Diyu Samuel, **M. Ramachandran**, Production and microstructure characterization of AA6061 matrix activated carbon particulate reinforced

composite by friction stir casting method, Rasayan Journal of Chemistry 10(3):784-789, 2017.

<http://dx.doi.org/10.7324/RJC.2017.1031748>

55.G. Ramanan, J. Edwin Raja Dhas, Diju Samuel, **M. Ramachandran**, Influence of Activated Carbon Particles on Microstructure and Thermal Analysis of Aa7075 Metal Matrix Composites, Rasayan Journal of Chemistry, 10(2), 2017:375-384.

<http://dx.doi.org/10.7324/RJC.2017.1021663>

56.Deepali Mor, **M Ramachandran**, Pramod Raichurkar, "Optimization of Solid Wastes Disposal Strategy by Fuzzy Topsis Method", Nature Environment and Pollution Technology 16(1):247-250, 2017

57.Pramod Raichurkar, **M. Ramachandran**, V. Subramaniam, performance of silk yarn with the effect of soaking in mrudula soaking oil, colourage 64(1):41-44, 2017

58.Mohit Arora, Akshay Ahuja, **M Ramachandran**, Review on Characterization of Poly Butyl Succinate Based Biodegradable Composites, Research Journal of Pharmaceutical, Biological and Chemical Sciences 8(1):1687-1691, 2017

59.Sahas Bansal, **M. Ramachandran**, Pramod Raichurkar, Analysis of Coir Fiber Poly-Lactic Acid (PLA)/ Poly-Propylene (PP) Resin Reinforced Polymeric Composite, Applied Mechanics and Materials, 152:10-12, September 2016. **Trans Tech Publications.**

<http://dx.doi.org/10.4028/www.scientific.net/AMM.852.10>

60.**M. Ramachandran**, Sahas Bansal, Pramod Raichurkar, Experimental Study of Bamboo using Banana and Linen Fiber Reinforced Polymeric Composites, Perspectives in Science (2016) 8, 313—316. **ElsevierPublications.**

<http://dx.doi.org/10.1016/j.pisc.2016.04.063>

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<http://dx.doi.org/10.3311/PPme.8684>

62. Akshay Ahuja, **M. Ramachandran**, Review on Phase Change Material as thermal energy storage for cooling, International Journal of ChemTech Research 9(4):192-196 · May 2016.

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64. **M. Ramachandran**, , Sahas Bansal, Pramod Raichurkar, Scrutiny of Jute Fiber Poly-Lactic Acid (PLA) Resin Reinforced Polymeric Composite, Journal of the Textile Association, Volume 76, Issue 6, 2016, pp. 372-375.

65. Simran Agarwal, **M. Ramachandran**, Optimization of Biomedical Waste Disposal Strategy by Fussy Topsis Method, International Journal of Research in Ayurveda and Pharmacy, 7(2):67-70 · April 2016.

66. Nishant Godbole, Shajit Yadav, **M. Ramachandran** , Sateesh Belemkar, A Review on Surface Treatment of Stainless Steel Orthopedic Implants, Int. J. Pharm. Sci. Rev. Res., 36(1), 2016; Article No. 33, Pages: 190-194.

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69. Pulkit Purohit, **M. Ramachandran**, Selection of Flywheel Material using Multicriteria Decision Making Fuzzy Topsis, Indian Journal of Science and Technology, 8(33), 2015.

<http://dx.doi.org/10.17485/ijst/2015/v8i33/80028>

70. Patil chetan Vitthal, Chaudhary Saurabh Sanjay, Bhavna R Sharma, **M. Ramachandran**, Need of Biomedical Waste Management in Rural Hospitals in India, Int. J. Pharm. Sci. Rev. Res., 35(1), 2015, 175-179.

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Merchandiser to optimize Manufacturing cost, Journal of the Textile Association, Volume 76, Issue 3, October 2015, pp. 161-164.

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73. Alex. S, Stanly Johns Retnam, **M. Ramachandran**, A review on Biodegradability of Hybrid Bamboo/Glass fiber polymer composites, International Journal of Applied Engineering Research. ISSN 0973-4562 Volume 10, Number 11 (2015) pp. 10565-10569.

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- 86.Rakshit Agarwal, **M. Ramachandran**, Stanly Jones Retnam, Tensile Properties of Reinforced Plastic Material Composites with Natural Fiber and Filler Material, ARPN Journal of Engineering and Applied Sciences,10(5), 2015, pp. 2217-2220.

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89. Aakash Kumar Bihari, **M. Ramachandran** ,Kanak Kalita, Disaster management on Ballast System in marine industry, International Journal of Oceans and Oceanography, 8(2) (2014), pp. 127-135.

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93.**M. Ramachandran**, U. Ragavendran, Vishal Fegade presented paper on title "Selection of Used Piston for Remanufacturing Using Fuzzy TOPSIS Optimization" at The 4th International Conference on Fuzzy Systems and Data Mining, Tawana Bangkok Hotel, 16-19 November 2018, Bangkok, Thailand.

94.S. Laguech , A. Triki , **M. Ramachandran** , A. Kallel, Dielectric properties of jute fibres reinforced Poly(lactic acid)/Poly(butylene succinate) blend, 10th Conference on Broadband Dielectric Spectroscopy and its Applications, 26 – 31 August 2018 Brussels, Belgium.

- 95.M.Ramachandran**, Nidhi Agarwal, Identification of Most Affected Parameter for Design for Remanufacturing of Scrap Piston by Taguchi Desirability Function Analysis at international conference on man Machine Interactions hosted by Silesian University of Technology, Cracow, Poland on October 3-6, 2017.
- 96.Deshpande**, R. Gandhi, K. Kalita, **M.Ramachandran**, A Numerical Study on the Problem of Stress Concentration in Steel Plate,International conferences on Advances in Materials and Product Design, January 2015, SVNIT Surat, ISBN: 9789351969563, Pg. No: 49-56
- 97.P. Chincholikar**, A. Commessariat, K. Kalita,**M.Ramachandran**,Steel plate under Equi-biaxial loading,International conferences on Advances in Materials and Product Design, January 2015, SVNIT Surat,ISBN: 9789351969563, Pg. No: 42-49
- 98.M.Ramachandran**,Franklin Antony Libin, V.Aji,Tensile properties of hybrid carbon and glass fiber reinforced plastic, International Colloquium on Materials, Manufacturing and Metrology, IIT Chennai,8th& 9th August 2014,PP.51-52
- 99.V. Aji**,**M.Ramachandran**,Characterization of glass fiber reinforced plastic material with fly ash as a filler material,International Conference on Technological Advancements and Green Governance,Sivaji college of Engineering, Kanyakumari, Tamil Nadu,10th& 11thApril 2014,PP.111
- 100.M.Ramachandran**,K. H. Ashwini, Raja,Mechanical properties of hybrid carbon and glass fiber reinforced plastic,International Conference on Modeling, Optimization and Computing,Noorul Islam University, Kanyakumari, Tamil Nadu,10th& 11thApril 2014
- 101. M. Ramachandran**, V. Aji, M. Dev Anand, *Fiber reinforced plastic material with aluminum filler used for ship superstructure*, International Conference on Global Challenges, Strategies and Solution in Engineering, Business and Disaster Management, Noorul Islam University, Kanyakumari, 27th and 28th February 2014.
- 102. M. Ramachandran**, Robin Kumar Samuel, Disaster management on ballast water system in marine industry, International Conference on Global Challenges, Strategies and Solution in Engineering, Business and Disaster Management, Noorul Islam University, Kanyakumari, 8th and 9th March 2013.

103.M.Ramachandran,A. K. Ratheesh, Performance of strategy in Balanced Score Card methodology, International Conference on Modeling, Optimization and Computing, Noorul Islam University, Kanyakumari, Tamil Nadu,10th& 11th April 2012

PAPERS AT NATIONAL CONFERENCES

104.Aakash Kumar Bihari, M.Ramachandran, Kanak Kalita, Effect of process parameters on roughness and hardness of surface and dimensional accuracy of lost wax process casting, VIIT Engineering college, National Conference on Mechanical Engineering, Materials Science and Mechatronics, 20thFebruary 2015,PP.424-430

105.M.Ramachandran, Stanly Jones Ratnam, M. Sivapragash,Characterization of Hybrid Carbon and Glass Fiber Reinforced Polymer, National Conference on Racing Car Dynamics, Noorul Islam Centre for Higher Education, Kanyakumari, Tamil Nadu, 02 April 2014, PP.75-79

106.V. Aji,M.Ramachandran, Stanly Jones Ratnam,Mechanical properties of glass fiber reinforced with fly ash as filler, National Conference on Racing Car Dynamics, Noorul Islam Centre for Higher Education, Kanyakumari, Tamil Nadu, 02 April 2014, PP.71-74

107.Stanly Jones Ratnam, M.Ramachandran, Bino Prince Raja,Characterization of Nickel Alloys on Turbine blades in gasoline engine, National Conference on Racing Car Dynamics, Noorul Islam Centre for Higher Education, Kanyakumari, Tamil Nadu, 02 April 2014, PP.84-88

108.Stanly Jones Ratnam, M.Ramachandran, M. Harinath, Jenu. A.S,Hybrid car with gasoline supercharged and turbocharged engine, National Conference on Racing Car Dynamics, Noorul Islam Centre for Higher Education, Kanyakumari, Tamil Nadu, 02 April 2014,PP.80-83

109.Stanly Jones Ratnam, M.Ramachandran, Design Fabrication and development of a three axis modern hydraulic trailer, National Conference on Racing Car Dynamics, Noorul Islam Centre for Higher Education, Kanyakumari, Tamil Nadu, 02 April 2014, PP.149-152

110.K. H. Ashwini,M.Ramachandran, Comparison of jute fiber over glass fiber and carbon fiber reinforced plastic material composites used for fishing boats,National Conference on

Advancements in Mechanical Engineering and Nano Technology, PSN Engineering College, Tirunelveli, Tamil Nadu, 4th & 5th April 2014, PP.71

111.V. Franklin A Libin, **M. Ramachandran**, Mechanical properties of lifeboat with oil palm fruit bunch fiber reinforced plastic material composites, National Conference on Advancements in Mechanical Engineering and Nano Technology, PSN Engineering College, Tirunelveli, Tamil Nadu, 4th & 5th April 2014, PP.57

112. **M. Ramachandran**, Direct methanol fuel cell, National Conference on MARXSHIP 2007, PSN College of Engineering and Technology, Tirunelveli, 9th March 2007.

PAPERS AT NATIONAL SYMPOSIA

1. **M. Ramachandran**, Direct methanol fuel cell, 3rd National Level Technical Symposium (ELINFO2007), SHEEN, PSN College of Engineering and Technology, Tirunelveli, 3rd October 2007.

INVITED TALK PRESENTED

1. Presented invited talk in "**Advanced Statistics**" in UGC-HRDC in winter School (SPSS training) being organized on 19/12/2018 to 20/12/2018 at UGC-HRDC, DAVV, Khandwa Road, Indore.

2. Presented invited talk in "**MOOC Modules**" in UGC-HRDC in Summer School (6th refresher course in computer applications) being organized on 19/11/2018 to 20/11/2018 at UGC-HRDC, DAVV, Khandwa Road, Indore.

3. Presented invited talk in "**basic optimization techniques for Selection of E-resources for Higher Education**" in UGC-HRDC in Summer School (ICT and E-resources for teaching learning in Higher Education) being organized on 07/07/2018 at UGC-HRDC, DAVV, Khandwa Road, Indore

4. Presented invited talk in Short Term Course on Automations applications in Textile Industry "**Basis of Computer Numerical Control Machines**" in Center for Textile Functions, NMIMS University. 17- 22nd July 2016.

5. Presented invited talk in Short Term Course (Part B) on Terry Towel Manufacturing on topic "**Buy/Make Decision making framework for terry towel manufacturing with multi criteria decision making**" in Center for Textile Functions, NMIMS University. 2-7th February 2015

6. Presented invited talk in IMSR International Conference conducted by GIAP Journal on topic "**Innovating success in the Professional career**" on 20th December 2014.

7. Presented invited talk in Short Term Course (Part A) on Terry Towel Manufacturing on topic "**Application of Natural Fiber in terry towel manufacturing**" in Center for Textile Functions, NMIMS University. 17- 22nd November 2014.

FUNDED PROJECTS

1. Experimental Investigation and Development of flow pattern map for Petrol and its vapor flow in various pipes, SVKM's NMIMS seed grant (Rs.35000), year 2017-18.

PATENTS FILED

1. Patent filled with title "**Glass Fiber Reinforced Poly-Ether Ether Ketone (PEEK) Composites using Carbon Nano Filler as Bearing Cage Material**" in 2017-18 with patent filled No: **201821006759**.

2. Patent filled with title "**Low Cost Functional Eco-Friendly Cloth Medical Diaper with Natural Fibres**" in 2018-19 with patent filled No: **201821025795**

BOOK PUBLISHED

1. Mechanical Measurements and Metrology (**ISBN:978-81-936097-4-3**), Rest Publisher, 2019
2. Fundamental of Manufacturing Processes (**ISBN:978-81-936097-5-0**), Rest Publisher, 2019
3. Advanced Material Engineering, (**ISBN:978-81-936097-1-2**), REST Publishers, 2018
4. **M. Ramachandran**, Nidhi Agarwal, Identification of Most Affected Parameter for Design for Remanufacturing of Scrap Piston by Taguchi Desirability Function Analysis, Advances in Intelligent Systems and Computing, 659, 2018, 320-329. (**Springer Book Chapter**)
https://doi.org/10.1007/978-3-319-67792-7_32
5. Computer Integrated Manufacturing, (**ISBN:978-81-936097-2-9**), REST Publishers, 2018
6. Fundamentals of Mechatronics and control, (**ISBN: 978-81-936097-0-5**), REST Publishers, 2017
7. Shipping in Logistics & Supply Chain Management, REST Publishers, 2013
8. Marine boilers & Steam Engineering, SIGMA Publisher, 2011

MEMBERSHIP IN PROFESSIONAL BODIES

1. FRP Institute, Academic Member, **LM 278**, Life Time.
2. Institute of Engineers India, Associate Member, **AM158185-9**, Life Time.
3. RSRI Society for Research International, Senior Member, **SM0112**, Life time.
4. Materials Research Society of India, **LMB2800**, Life Time.
5. Indian Society for Technical Education, **LM-107074**, Life Time.
6. Indian Society of Mechanical Engineers, Senior Member, **SMISME14031801**, Life Time.
7. Indian National Database of Seafarers, **07EL0463**, life time.
8. International Association of Engineers, Associate Member, **135385**, Life Time.
9. Institute of Research Engineers and Doctors, Associate Member, 2014- 2017.

WORKSHOPS ATTENDED

- 1. Recent Trends in Research Methodology** 25/05/2020 to 29/05/2020 by REST Society for Research International
- 2. Basic Statistical Analysis for Research** 18/05/2020 to 22/05/2020 by REST Society for Research International
- Attended one week course on **Predictive Modelling & Advanced Statistics** 26 November 2018 to 01 December 2018 at SAS training Centre, Bandra Kurla Complex, and Mumbai.
- Attended one week course on attended QIP short term course "**Fundamentals and Advances in Multiphase Flow**" 19-23 December 2016 at SVNIT Surat.
- Attended one week course on **Mechatronics & Automation** by Bosch Centre of excellence in automation , SVKM's NMIMS, 14-19 December 2015
- Attended one week course on **Recent Advances in Nanobiophotonics [from lab to clinic]** by Quality Improvement Programme Center Sponsored by AICTE, IITRoorkee, and 13-17 July 2015.
- Attended Ten days Course on **Environmental Science**, by Indian Institute of Technology, Bombay, 02-12 June 2015.
- Attended course on **How to become a Reviewer and what do Editors expect** by Elsevier publishing campus, 2 June 2015.
- Attended **foundation of fuzzy set and fuzzy logic with application**, three days course conducted by Dr. Ashok Deshpande at SVKM's NMIMS MPSTME, 10-12 January, 2015.
- Attended **Entrepreneur Resource Planning- SAP**, Two Week Course by NMIMS University. Mumbai, 08-20 December, 2014.
- Attended two days **Step to Research** Course by Amal Jothi College of Engineering and Tech, Kerala, 19-20 September, 2014.

12. Attended **IEEE Global Early Career Faculty Virtual Mini-Conference: Effective Teaching**, 18 September, 2014.
13. Attended **IEEE Global Early Career Faculty Development Mini-Conference** 12 September, 2014.
14. Attended advanced **Medical First Aid** course at Hindustan Institute of Maritime Training, Chennai, 21-24 April 2010.
15. Attended advanced **Engine room simulator course** at Hindustan Institute of Maritime Training, Chennai, 18-20 March 2010.
16. Attended **Training of trainers and Assessors course** for two weeks at maritime foundation.
17. Attended advanced **fire prevention and firefighting course** at Tamil Nadu Maritime Academy, Tuticorin, 15-17 May 2008.
18. Attended advanced **Personal Safety and Social responsibility course** at Tamil Nadu Maritime Academy, Tuticorin, 08-10 May 2008.
19. Attended **Internship Training at T.S. BAGAVATHY**, PSN College of Engineering & Technology, Tirunelveli, and 2nd January 2007 – 1st July 2007.

REVIEWER IN JOURNALS

1. Indian Journal of Engineering & Materials Sciences (**NISCAIR**). (**SCOPUS**)(**SCIE**)
2. Construction & Building Materials (**Elsevier**) (**SCOPUS**)(**SCIE**)
3. Resources, Conservation & Recycling(**Elsevier**) (**SCOPUS**)(**SCIE**)
4. Sage Open(**Sage**)(**SCOPUS**)(**SCIE**)
5. Royal Society Open Science (**The Royal Society**)(**SCOPUS**)(**SCIE**)
6. International Transactions on Electrical Energy Systems (**Wiley**)(**SCOPUS**)(**SCIE**)
7. Journal of Renewable Materials (Tech Science Press)(**SCOPUS**)(**SCIE**)

8. Multidiscipline Modeling in Materials and Structures (Emerald)(**SCOPUS**)(**ESCI**)
9. Iranian Chemical Communication(**ESCI**)
- 10.Independent Journal of Management & Production(**ESCI**)
- 11.Applied Computing and Informatics(**Elsevier**) (**SCOPUS**)
- 12.Journal Engineering Science and Technology (**Elsevier**) (**SCOPUS**)
- 13.Journal of Energy Storage (**Elsevier**) (**SCOPUS**)
- 14.Society of Automotive Engineers (**SAE**). (**SCOPUS**)
- 15.Journal of the Chinese Advanced Materials Society (**Taylor & Francis Group**).
- 16.Cogent OA (**Taylor & Francis Group**). (**SCOPUS**)
- 17.PeriodicaPolytechnica, Mechanical Engg (**Budapest University of Tech**) (**SCOPUS**)
- 18.RASAYAN Journal of Chemistry(**SCOPUS**)
- 19.Journal of Materials and Environmental Science (**SCOPUS**).

ACHIEVEMENTS

1. **Session chair** at International Conference on Mechanical, Materials and Renewable Energy (**ICMMRE 2019**), Sikkim Manipal Institute of Technology,Rangpo, India, December 6-7, 2019
2. Received **Publons Academy Mentorship** from 2018
3. Received **Top Reviewer Award 2018**for the field of Engineering by Publons, New Zealand, United Kingdom, Web of Science, and Clarivate Analytics.
4. **Editor in Chief** for **REST Journal on Emerging trends in Modelling and Manufacturing (ISSN: 2395-3578)** by REST Publisher, Krishnagiri, Tamil Nadu, India. (2015-2018)

5. **Managing Editor** for **International Journal on Textile Engineering and Processes (ISSN: 2395-3578)** by Centre for Textile Functions, MPSTME, SVKM's NMIMS Deemed to be University, Shirpur Campus.
(<http://engineering-shirpur.nmims.edu/faculty-and-research/ijtep/editorial-board>)
6. Received **Sentinels Of Science Award 2016** for the field of Engineering by Publons, New Zealand, United Kingdom, Award declared by **Richard J Roberts** (Nobel laureate in physiology in 1992)
7. **First prize** in **IEDC Enterpreniual idea competition** with cash (Rs 25000) on title biodegradable roofing sheet organized by IEDC Cell, SVKM's NMIMS University, Shirpur Campus.
8. **Advisory Board Member** for national Conference (NCETET 2K15) **National Conference On Emerging Technologies in Engineering and Technology** organized by Department of Electrical & Electronics Engg on 23th March 2015, St. Thomas College of Engineering and Technology, Chengannur, Kerala.
9. **Convener** for international Conference (ICEMEM2015) **International Conference on Emerging trends in Manufacturing, Engines and Modeling** organized by Department of Mechanical Engineering on 27th& 28th February 2015, NMIMS University, Shirpur Campus.
10. **Session chair** in online International Conference conducted by GIAP Journal on Title "**Confluence V2**" on 20th January 2015.
11. **Faculty In charge** for **Professional Personality Development Cell**, Mechanical Department, MPSTME, NMIMS University, Shirpur campus.
12. **Faculty In Charge** for **Environmental and Nature Club** at Noorul Islam University, Kanyakumari, 2010-2014
13. **Chair Person** for **National Level Technical Symposium** (Marine Rendezvous'2012) at Noorul Islam University, Kanyakumari, 10th February, 2012

14. Got **100% Result Award** for subject logistics and supply chain management from Noorul Islam University, Kanyakumari, December, 2010

EXTRA CURRICULAR ACTIVITIES

1. First position in 5km runs at SDAT, Kanyakumari, 2010.
2. First position in 100mts in Annual Sports Meet at GKM college of Engineering and Technology, Chennai, 2009.
3. Record in 5000 M run in TIES – 2008, Ramnad District, Tamil Nadu
4. Record in 5000 M, 1500 M in Zone 10 Anna University and Record in 5000 M run in overall Anna University.
5. Gold Medal in 1500, 5000 & 10000 M in District Level Meet, SDAT, Krishnagiri, 2008 and SDAT, Palayamkottai, 2008
6. First position in 12km Mini Marathon at Sivanthi Aditanar College of Physical Education, Tiruchendur, 2008.
7. First position in 400mts, 800mts & 5000mts in block level sports 2007-2008, Tirunelveli.
8. First position in cross country race in Annual Sports Meet at PSNCET, 2nd February 2005 and Annual Sports Meet at PSNCET, 2008.

LANGUAGES KNOWN

1. Tamil(Excellent)
2. English (Excellent)
3. Hindi (beginner)
4. Marathi (beginner)

DECLARATION

I hereby declare that the information furnished above is true, correct and complete to the best of my knowledge.

PLACE: Shirpur, Maharashtra.

Yours Truly,

DATE: 10/06/2019.

(RAMACHANDRAN. M)