

Cellphone : 9943452113

e-Mail ID : mkkumaran561@gmail.com

Address : No.13 Mariyamman Koil Street, Vemboondi,
Pelakuppam(Post), Tindivanam(TK) Villupuram(Dist)
604001



Present Position

Teaching Fellow, Department of Production Technology, Madras Institute of Technology, Anna University, Chennai from December-2020.

Previous Additional Responsibility

- > , , Anna University, Chennai.
- > , , Anna University, Chennai.

Other Employment

- > ASSISTANT PROFESSOR, MAILAM ENGINEERING COLLEGE for 6.5 years.

Degree

- ❖ M.E. in MECHANICAL ENGINEERING , MAILAM ENGINEERING COLLEGE, ANNA UNIVERSITY (2012 - 2014).
- ❖ B.E. in MECHANICAL ENGINEERING , MAILAM ENGINEERING COLLEGE, ANNA UNIVERSITY (2005 - 2009).

Area of Specialisation

- > Fluid Mechanics, Operation Research & Kinematics

Research Guidance

Papers Published in Journals

Research Papers Published in International Journals : 5
Research Papers Published in National Journals : 0

1. M.Manivannan, K.Sundara Vinayagam, K.Muthukumaran, V.Pugazhenthii, "Evaluation of Mechanical Properties of Jute Fiber with Eggshell Powder and Epoxy Resin Reinforcement", International Journal of Innovative Research and Creative Technology, published by IJIRCT. Vol. 1, Issue 3, pp. 305 (2015).
2. R.Manikandan, S.Purushothaman, K.Sundaravinayagam, K.Muthukumaran, M.Manivannan, R.Girimurugan, "Influence of Cell Potentials on the Cathode Oxygen Concentration in a Serpentine Flow Field PEM Fuel Cell", International Journal of Innovative Research and Creative Technology, published by IJIRCT. Vol. 1, Issue 5, pp. 458 (2015).
3. Kadambanathan. K, Chandrasekar. K, Muthukumaran. K, "Photo-Oxidative Degradation of Polypropylene Nanocomposites - Effect of Incorporation of Additives on Performance Characteristics", International Journal of Scientific Research in Science, Engineering and Technology, published by Technoscience Academy. Vol. 1, Issue 3, pp. 223 (2015).
4. K. Muthukumaran, J. Francis Xavier, R. Ramadoss, P. Balu, C. Ezilarasan, "Analysis of Thermal Barrier Coating's Behaviors on Alloys " A Review ", IOP Conf. Series: Materials Science and Engineering, published by IOP Publishing. Vol. 954, Issue 1, pp. 012025 (2020).
5. D. Narayana Moorthy, L. Jayakumar, K. Muthukumaran, "CHARACTERIZATION OF CHEMICALS FROM PROSOPISJULIFLORA (PJ)"APOTENTIAL ENHANCER FOR LIGHTWEIGHT POLYMER APPLICATIONS", Materiali in tehnologije / Materials and technology , published by Institute of Metals and Technology, Ljubljana, Slovenia. Vol. 55, Issue 5, pp. 619 (2021).

Papers Presented in Programmes

Research Papers Presented in International Programmes : 2
Research Papers Presented in National Programmes : 0

1. "Finite Element Analysis of Skin Panel Based on the Fiber Orientation and Stacking Sequence" presented in a International level conference on International Conference on Emerging Trends in Engineering and Technology Research, organised by Sri Rangapoopathi College of Engineering, INDIA from 10-Sep-2019 to 12-Sep-2019.
2. K. Muthukumaran,, "Analysis of Thermal Barrier Coating's Behaviors on Alloys " A Review " presented in a International level conference on 5th International Conference on Materials and Manufacturing Engineering, organised by Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya, INDIA from 05-Aug-2020 to 07-Aug-2020.

Programme Attended

1. Attended a National level Short Course on "Kinematics of Mechanisms and Machines" organized by IIT Kharagpur, INDIA from 04-Jan-2021 to 30-Mar-2021.
2. Attended a National level Short Course on "Design of Experiments (DOE) & Optimization Techniques" organized by VEMU INSTITUTE OF TECHNOLOGY, INDIA from 08-Feb-2021 to 13-Feb-2021.

3. Participated in a National level workshop on "Automation and Artificial Intelligence in Production Engineering" organized by G.B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand, INDIA from 22-Feb-2021 to 26-Feb-2021.
4. Participated in a National level workshop on "FEA Modelling of Wind Energy Systems" organized by PANIMALAR INSTITUTE OF TECHNOLOGY, INDIA from 18-Mar-2021 to 25-Mar-2021.
5. Participated in a National level workshop on "Recent Advancements in materials Processing and Characterization" organized by Chennai Institute of Technology, INDIA from 18-Jun-2021 to 19-Jun-2021.
6. Attended a National level Short Course on "Fluid Dynamics and Turbo Machines" organized by IIT Madras, INDIA from 26-Jul-2021 to 24-Sep-2021.
7. Participated in a National level workshop on "BUSINESS MODEL CANVAS" organized by Puducherry Technological University, INDIA from 11-Aug-2021.
8. Participated in a National level workshop on "Workshop on Innovation" organized by Innovation Council, PMIST, INDIA from 18-Aug-2021.
9. Participated in a National level workshop on "How to Plan for start up Legal & Ethical Steps" organized by Puducherry Technological University, INDIA from 20-Aug-2021.

Patents

1. Having a patent for "Design and Optimization of Solar Water distillation by Using Thermal Method" awarded by Australia. Patent number:2021107372 (01-Dec-2021).

Patents Filed

1. Filed patent rights for DESIGN AND OPTIMIZATION OF CARBON PARTICULATE ELIMIn INDIA. File number: 2147483647 Filed Date: 16-Jun-2020.
2. Filed patent rights for Design and Optimization of Rescue robot for Deep Win INDIA. File number: 2147483647 Filed Date: 02-Jan-2021.