

FACULTY DATA SHEET



Name of the Faculty Member : Dr. Jafrey Daniel James D
Present Designation : Assistant Professor
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I. Particulars of Educational Qualification :

1. Studied B.E - Mechanical Engineering at MIET Engineering College, Anna University, 2006-2010
2. Studied M.E - CAD/CAM at Sri Krishna College of Engineering and Technology, Anna University, 2010-2012.
3. Got Ph.D in Production Engineering at NIT-Tiruchirappalli, 2017.

II. Title of Ph.D. Thesis : Manufacturing and Experimental Investigations on Polypropylene/Cloisite30B/Elvaloy-AC-3427 nanocomposites

III. Academic Experience :

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
K. Ramakrishnan College of Engineering	Assistant Professor	20/06/18	Present			
National Institute of Technology – Tiruchirappalli	Adhoc Faculty	05/07/17	30/05/18	0	10	25
Mookambigai College of Engineering	Assistant Professor	11/06/12	30/07/13	1	1	20

IV. List of Publications :

a. INTERNATIONAL JOURNALS: 9

1. **Jafrey Daniel D** and K. Panneerselvam. Modelling of Tensile Properties, Dispersion Studies and Hardness Evaluation of Cloisite 30B in Polypropylene with Elvaloy AC 3427 as Compatibilizer. **Journal of Composite materials 2015,50(23), 3219-3227.**

2. **Jafrey Daniel D** and K. Panneerselvam. Mechanical and Thermal Behavior of Polypropylene/Cloisite 30B/Elvaloy AC 3427 Nanocomposites Processed by Melt Intercalation Method. **Transactions of the Indian Institute of Metals**, **70(4)**, 1131-1138, 2016.
3. **Jafrey Daniel D** and K. Panneerselvam. Processing of Polypropylene/ Spheri Glass 3000 Nanocomposites by Melt Intercalation Method. **Procedia Technology**, **25**, 1114-1124, 2016.
4. **Jafrey Daniel D** and K. Panneerselvam. Study on Tensile Strength, Impact Strength and Analytical Model for Heat Generation in Friction Vibration Joining of Polymeric Nanocomposite Joints. **Polymer Engineering and Science**, **57(5)**, 495-507, 2016.
5. **Jafrey Daniel D** and K. Panneerselvam. Manufacturing Issues of Polypropylene Nanocomposite by Melt Intercalation Process. **Material today Proceedings**, **4**, 4032-4041, 2017.
6. **Jafrey Daniel D** and K. Panneerselvam. Mechanical properties of polypropylene nanocomposites: Dispersion studies and modelling. **Transactions of the Indian Institute of Metals**, **71(1)**, 225-230, 2018.
7. **Jafrey Daniel D** and K. Panneerselvam. Abrasive wear of Polypropylene/Cloisite30B/Elvaloy AC 3427 nanocomposites. **Journal of Composite materials**. **52(13)**, 1833-1843, 2018.
8. **Jafrey Daniel D** and K. Panneerselvam. Investigation on the effects of Cloisite 30B and copolymer (ethylene and butyl acrylate) reinforcement with Polypropylene thermoplastic by Melt Intercalation Method. **Journal of Thermoplastic Composite Materials**. **31(10)**, 1371-1392, 2018.
9. **Jafrey Daniel D** and K. Panneerselvam” Experimental Investigation of Resistance Welded Polypropylene Nanocomposite Joints. **Journal of Adhesion Science and Technology**. DOI: 10.1080/01694243.2018.1478601.

b. NATIONAL JOURNALS :

1. **Jafrey Daniel D** and K. Panneerselvam “Mechanical Investigation of Friction Stir Welded Polymeric Nano composites Joints. **ISME Journal of Manufacturing Science**, **6(2)**, 38-48.

c. INTERNATIONAL CONFERENCES : 8

1. **Jafrey Daniel D** and K. Panneerselvam. “An experimental investigation on polymeric nano composite material” **Proceedings of the 5th International and 26th All India Manufacturing Technology, Design and Research Conference**. AIMTDR 2014, Dec 12-14, 2014, IIT Guwahati, 2014.
2. **Jafrey Daniel D**. “Investigation and Beneficial Effects of Cryogenic Treated Method over Cryogenic Injection Method”. **Proceedings of Recent Advances in Manufacturing and Materials (RAMM’11)**, 8-9th April 2011.
3. Panneerselvam K, T.Raghavendra, **Jafrey Daniel D** and K.Lokesh “Optimization of Tribological Properties of Aramid and Palm fibers Reinforced with Nylon Hybrid Composite”**Proceedings 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016)**, Dec 16-18, 2016, College of Engineering,, Pune, Maharashtra, INDIA.
4. Panneerselvam K, T.Raghavendra, **Jafrey Daniel D** and Chandresh D ”Investigation on Mechanical and Metallurgical Characterization of Sisal and Banana Fibers Reinforced With Polypropylene” **Proceedings 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016)**, Dec 16-18, 2016, College of Engineering,, Pune, Maharashtra, INDIA.
5. Panneerselvam K, T.Raghavendra, **Jafrey Daniel D** and T.N.S Ramakrishna” Investigation on Mechanical Characterization and surface morphology of Kenaf and Jute Fibers Reinforced with HDPE” **Proceedings 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016)**, Dec 16-18, 2016, College of Engineering, Pune, Maharashtra, INDIA.
6. Ramamoorthi R, Sampath P S, Nishanth S and **Jafrey Daniel James D**. “Thermal Properties of Modified Epoxy Nanocomposite”. **Proceedings on Advances in Design and Manufacturing Systems (ADAMMS -2012)**, 5-6th April 2012

7. **Jafrey Daniel D** and K. Panneerselvam. Multiple Response Optimization of Abrasive Wear of Polypropylene/Cloisite30B/Elvaloy-AC-3427 Nanocomposites using Response Surface Methodology. **CDAMBIES, 18-20 Jan, 2018, NIT-Tiruchirappalli.**
8. **Jafrey Daniel D.** "Investigation and Beneficial Effects of Cryogenic Treated Method over Cryogenic Injection Method". **Proceedings of Recent Advances in Manufacturing and Materials (RAMM'11), 8-9th April 2011.**

OTHER RESPOSIBILITIES HELD:

1. **IQAC coordinator for Mechanical Department for K. Ramakrishnan college of Engineering from September 2018 to till date.**

V. List of Short Term Course Attended :

- TEQIP sponsored:
 - Three days National Workshop on "Advanced Materials Processing in Past, Present and Future" held from 30th June 2016 – 2nd July 2016, organized by Department of Production Engineering, National Institute of Technology, Tiruchirappalli-15
 - Six days National Workshop on "Processing of smart materials" held from 11th July 2016 - 16th July 2016, organized by Department of Production Engineering, National Institute of Technology, Tiruchirappalli-15
 - Three days National Workshop on "Processing of smart materials" held from 16th July 2016 - 16th July 2016, organized by Department of Production Engineering, National Institute of Technology, Tiruchirappalli-15
 - One day National Workshop on "Laser Microprocessing for Biomedical Applications held on 3rd April 2014 organized by Department of Production Engineering, National Institute of Technology, Tiruchirappalli-15
 - 2 days workshop on "Insights of Research in Welding Engineering and Additive Manufacturing" held during 14th September-15th September organized by MEPCO Schlenk Engineering College, Sivakasi.