

PANIMALAR ENGINEERING COLLEGE
FACULTY CONFERENCE PUBLICATIONS – 2025-2026

S.NO	Faculty Name	PAPER TITLE	NAME OF THE AUTHORS	Name of the Conference
1	Dr. L. Karthikeyan Dr. R. Murugan	A Critical Review on Mechanical Properties of Synthetic Fiber Reinforced Polymer Composite Laminates	Aravindh R, Aravinth Arasu D, Harish Kumar K, Naga arvinth N, Murugan R, Karthikeyan L	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
2	Dr. L. Karthikeyan, Dr. R. Murugan,	A Critical Review on Free Vibrational Characteristics of Natural Fiber Reinforced Polymer Composite Laminates	K.M. Keerthi Ramanaa, J. Jeeva, R. Prasanna, S. Manoj Kumar L. Karthikeyan, R. Murugan,	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
3	Dr. L. Karthikeyan Dr. R. Saravanan	Design and Analysis of High Precision Plasma Cutting System Using Magnetic Arc Control	Abdul Rawoof.H, Vinoth.K, Bhavanidharan.T, R. Saravanan L. Karthikeyan	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
4	Dr. L. Karthikeyan, Dr. R. Murugan,	Investigation of Drilling-Induced Delamination in Carbon/Glass Hybrid Composite Laminates Using Taguchi Experimental Design	K.M. Keerthi Ramanaa, M. Kishore Kumaar, K. Pranav, R. Madhankumar, E. Rogitkumar, R. Murugan, L. Karthikeyan	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26

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5	Dr. L. Karthikeyan, Dr. R. Murugan,	A Critical Review on Mechanical Properties of Reinforced Polymer Composite Laminates made of Natural Fibers	Hariharan E, Sri Sathuguru Paramathma V, Umapathy V, Sakthivel P, Murugan R, Karthikeyan L	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
6	Dr. L. Karthikeyan, Dr. R. Murugan,	A Critical Review on Free Vibrational Characteristics of Synthetic Fiber Reinforced Polymer Composite Laminates	Gokulraj V, Naveen Kumar D, Manoj Kumar M, Kathiravan N, Murugan R, Karthikeyan L	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
7	Dr. L. Karthikeyan, Dr. Puviyarasan M.	Data-Driven Online Prognostics for Machine Health Monitoring in Digital Manufacturing	Avinash, Raghavendra, Blesswin, Raja Karthikeyan K, Puviyarasan M, Karthikeyan L	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
8	Dr. N. Nithyanandan ,	Mechanical and Operational Characteristics of Pneumatic Feed Drilling Machine	N. Nithyanandan , Pragadeeswar L , Suresh R , Rahul Ganesh A. U, Subhashanraj P	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26

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9	Dr. N. Nithyanandan	Design and Analysis of Scissor Jack	Nithyanandan N, Shreyas S, Vishal K N, Sanjay S, Sudhakaran S.	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
10	Dr. Puviyarasan M.	IoT-Based Hierarchical Solar Array Monitoring System (HSAMS) of Real-time Panel-Level Fault Detection with ESP32 and INA219 Sensors	Mathiyazhagan S, Dharansurender S S, Rahul M J, Jaya Surya S, Puviyarasan M.	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
11	Dr. Puviyarasan M.	Digital Twin Assisted Monitoring and Optimization of Fused Deposition Modeling (FDM) Additive Manufacturing Process	Sujith E, Devadharshan S, Ramkumar S, Ashok Kumar K, Sakthi Kumar P, Puviyarasan M	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
12	Dr. K.Thiruselvam,	Enhancement of performance and emission characteristics of neat palm biodiesel with enriched hydrogen	K.Thiruselvam, G.Yuvaraj, Yaswanth.U, Surya.R , Sathya Narayanan.V	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26

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13	Dr. K.Thiruselvam,	Analysis of performance and emission characteristics of biodiesel using cotton seed oil with cerium oxide nanoparticles	K.Thiruselvam, Rishit Bhuvanan B M, Rajasekar D, Vishwa K, Santhosh Kumar M	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
14	Dr. Anbarasu. A,	Design and Analysis of Tee Joint in FDM 3d Printer Using PLA Material	Anbarasu. A, Agathiyar A, Anand Raj R, Anthony Francis N, Adhi Kesavan V Adhi Subramani I.	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
15	Dr. K.R.Padmavathi,	Portable Air Filtration and Pollution Control Unit for Urban Environments	K.R.Padmavathi, Michael Megus M, Prathish B, Siraan Abdul Razack S, Anbumani V, Angnilo Berlins K	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
16	Dr. C. Karthikeyan, Mr. S. Dhanasekar	Investigate The Quality of Surface Roughness Using Various 3d Printing Technologies	C. Karthikeyan, S. Dhanasekar	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26

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17	Dr. G. Senthilkumar	Comparative Analysis of Spur Gear Drive Made of Same Material and Different Material	G. Senthilkumar, I. Kevin Robert, S. Sathish kannan, M. Kishore, S. Gokulnath	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
18	Dr. G. Senthilkumar	Optimization of Process Parameters on TIG Welded AISI 409 Stainless Steel	G. Senthilkumar, V. Thamizh Nilavan, L. Hariharan, M. Kesavan, P. Pozhilan	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
19	Mr. Naveen K	Analysis and Optimization of Car Seat Frame to Increase Safety Measures	Rishi Madhan, Rahul A, Krishnasamy N, Saran M, Naveen K	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
20	Dr. I. John Solomon, Mr. B. Prabhu	Mechanical Performance Evaluation of Hybrid Composite Woven Ring Joints	M. Harish, B Shanmuganathan, D Logeshwaran, I. John Solomon,	9 th International Conference for Phoenixes on Emerging Current Trends in

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			B. Prabhu	Engineering and Management PECTEAM-2K26
21	Mr. P Iyyan Paramanandam,	Comparative Finite Element Analysis of Epoxy Resin Reinforced Laminated Composite Plates Using Glass and Basalt with Different Fiber Orientations	P Iyyan Paramanandam, J Bharath, D Subramaniam, G Surendar, S Surendar	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
22	Dr. J.Gunasekaran, Mr. J.Murugesan	Influence of Stitching on the Impact Resistance of Fiber-Reinforced Epoxy Laminates	R.Harish, S.NaveenKarthik, M.Madhan Kumar, J.Gunasekaran, J.Murugesan	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26

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23	Mr. B Bradley Bright	Effectiveness of Clay-Based Prosthetic Implants for Amputated Metatarsus: Implications for Gait Restoration and Biocompatibility – A Review	B Bradley Bright	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
24	Mr. Louies Praveen S,	Synthesis and Mechanical Characterization of Aluminium 6061–Graphite Composites via Stir Casting	Louies Praveen S, Senthil Kumar P, Saravanan R , V.J.Bharaneedharan, Niwin Solomon W	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
25	Mr. S.Santhosh Kumar,	Mechanical Characterization and Vibration Analysis of Flax Fiber and Rice Husk Reinforced Polymer Composites: A Review	S.Santhosh Kumar, M.Guhan, E. Kavimani, K.S.Vignesh, P.Anish	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
26	Santhosh Kumar S	Design and Analysis of Hybrid Manufacturing of Go-Kart Tires	S.DhanaSekar , Vikram R, Ilaiyaranan M, Sunil P, Santhosh Kumar S	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26

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27	Mr. Senthil Kumar P	Artificial Intelligence in Biomaterials for medical implantation - Comprehensive Review	Senthil Kumar P	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26
28	Dr. Sharun . V, Dr. Paul Theophilus Rajakumar . I, Dr. Amos Gamaleal David, Mr. Raja Karthikeyan K	Study On Mechanical Behavior of Austempered Ductile Iron for a Coupler Head During Wedm	Sharun . V, Paul Theophilus Rajakumar . I, Amos Gamaleal David, Raja Karthikeyan I	9 th International Conference for Phoenixes on Emerging Current Trends in Engineering and Management PECTEAM-2K26