



KCG
COLLEGE OF TECHNOLOGY
AFFILIATED TO ANNA UNIVERSITY | AUTONOMOUS

KCG Nagar, Karapakkam

Chennai – 600 097

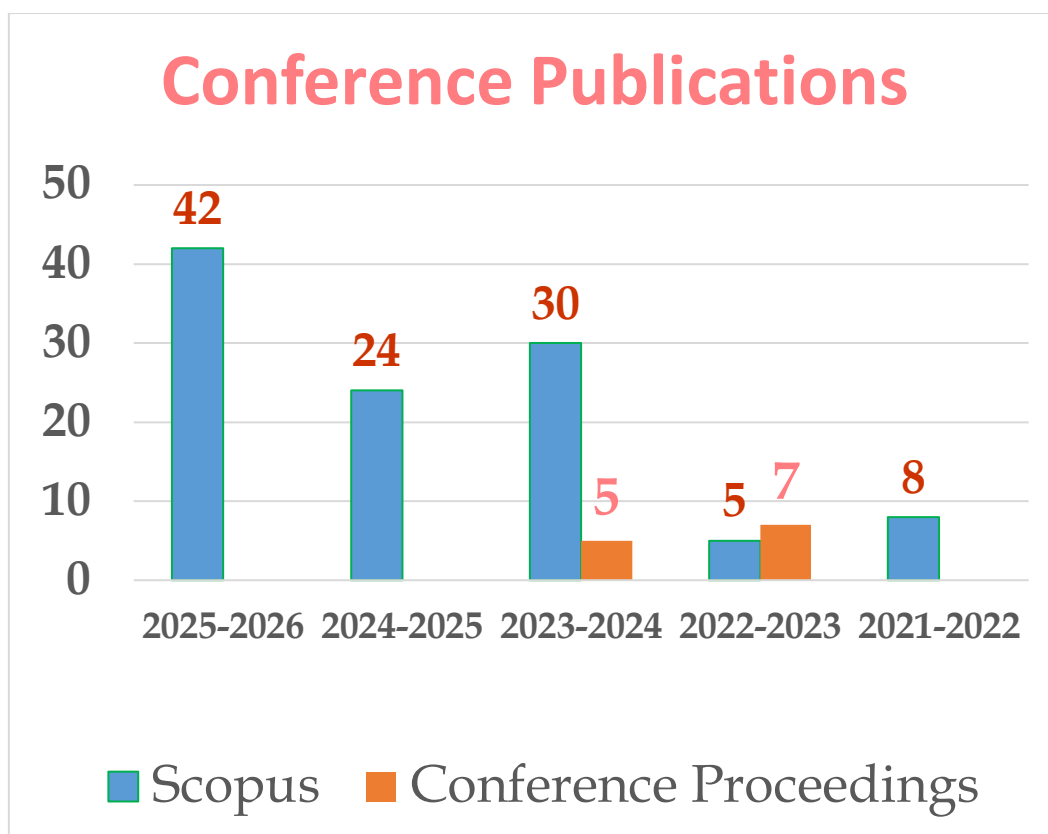
DEPARTMENT OF MECHANICAL ENGINEERING



FACULTY CONFERENCE PUBLICATIONS

KCG Nagar, Karapakkam

Conference Publications Summary



Academic Year	Scopus	Conference Proceedings	Total
2025-2026	42	-	42
2024-2025	24	-	24
2023-2024	30	5	35
2022-2023	5	7	12
2021-2022	8	-	8
Total	109	12	121

S. Jesudoss Thomas.

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DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2025-2026)

S.NO	AUTHOR NAMES	TITLE OF THE PAPER	CONFERENCE NAME	CONFERENCE LEVEL	ORGANISED BY	INDEXING	DOI
1.	Alagar Karthick, Thillaikannu Rajalakshmi, Seeniappan Kaliappan , M. Suganya	A Deep Learning Approach for Brain Tumor Detection using ResNet Architecture	3rd International Conference on Sustainable Computing and Data Communication Systems (ICSCDS), Erode, India	International	IEEE	Scopus	10.1109/ICSCDS65426.2025.11167537
2.	A. Karthick, K. Naveen, S. Kaliappan V. T. Thangam	Prediction of PV Power using Ensemble Learning Techniques with Meteorological Data	International Conference on Modern Sustainable Systems (CMSS), Shah Alam, Malaysia	International	IEEE	Scopus	10.1109/CMS S66566.2025.11182400
3.	A. Karthick, R. Yamuna, S. Kaliappan R. Anitha	Random Forest Regression for Solar Radiation Forecasting with Meteorological Inputs	International Conference on Modern Sustainable Systems (CMSS), Shah Alam, Malaysia	International	IEEE	Scopus	10.1109/CMS S66566.2025.11182571
4.	A. Karthick, P. Bindumadhavi, S. Kaliappan S. Kanmani Jebaseeli	LSTM based Deep Learning Model for PV Power	International Conference on Modern Sustainable Systems (CMSS),	International	IEEE	Scopus	10.1109/CMS S66566.2025.11182300

DEPARTMENT OF MECHANICAL ENGINEERING

Conference Publications CAY (2025-2026)

		Forecasting	Shah Alam, Malaysia				
5.	A. Karthick, C. Manikanta, S. Kaliappan , U. Esakkiammal	Prediction of Photovoltaic Output Power using GRU and Weather Data Fusion	International Conference on Modern Sustainable Systems (CMSS), Shah Alam, Malaysia	International	IEEE	Scopus	10.1109/CMS S66566.2025.1 1182565
6.	L. Natrayan; Seeniappan Kaliappan ; Selvamathi G.; S. Sivacharan; Ballakonda Pallavi; Shahnaz K. V.	AI-Powered Economic Systems: A New Paradigm in Data-Driven Decision-Making	International Conference on Technology Enabled Economic Changes (InTech), Tashkent, Uzbekistan	International	IEEE	Scopus	10.1109/InTe ch64186.2025. 11198278
7.	L. Natrayan; Seeniappan Kaliappan ; Ayinala Naga Sai; A. Ranjithkumar; P. Sheker; L. Jayanthi	Economic Efficiency Through AI: Exploring Advanced Forecasting and Optimization Models	International Conference on Technology Enabled Economic Changes (InTech), Tashkent, Uzbekistan	International	IEEE	Scopus	10.1109/InTe ch64186.2025. 11198444
8.	L. Natrayan; Seeniappan Kaliappan ; R. Karthikeyan; Ayinala Naga Sai; M. Ramesh;	Advanced Big Data Analysis for Scalable Decision- Making and Predictive Insights	International Conference on Technology Enabled Economic Changes (InTech), Tashkent, Uzbekistan	International	IEEE	Scopus	10.1109/InTe ch64186.2025. 11198238

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2025-2026)

	M. Shakunthala						
9.	L. Natrayan; Seeniappan Kaliappan; P. Uma Maheshwara Rao; C. Krithika Kamalam; Manjuvani; M. Srinivasan	A Deep Dive into Big Data Analytics: From Frameworks to Real-World Applications	International Conference on Technology Enabled Economic Changes (InTech), Tashkent, Uzbekistan	International	IEEE	Scopus	10.1109/InTech64186.2025.11198430
10.	L. Natrayan; Seeniappan Kaliappan; Subramaniyan V.; George Fernandez Raj A.; Nishma Bhaskarani; Lakshmi Chandrakanth Kasireddy	Enhancing Trust and Security in Digital Ecosystems with Blockchain Technology	International Conference on Technology Enabled Economic Changes (InTech), Tashkent, Uzbekistan	International	IEEE	Scopus	10.1109/InTech64186.2025.11198514
11.	P. Sobha Rani; G. Srinivasa Raju; Siva Kumar Pathuri; Syed Muqthadar Ali; P. N. V. Syamala Rao M.; Seeniappan Kaliappan	Deep Learning and AdaBoost Ensemble Integration for Nodular Goiter Diagnosis Using ResNet101 Features	First International Conference on Intelligent Computing and Communication Systems (CICCS), Bengaluru, India	International	IEEE	Scopus	10.1109/CICCS66437.2025.11280081
12.	Natrayan L.; V. S. Saranya; J. V. Rama Kumar;	A Hybrid RF and AdaBoost Ensemble Model	First International Conference on Intelligent	International	IEEE	Scopus	10.1109/CICCS66437.2025.11280190

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2025-2026)

	Seeniappan Kaliappan; Ramya Maranan; Siva Kumar Pathuri	for Detecting Cyberbullying on Social Media	Computing and Communication Systems (CICCS), Bengaluru, India				
13.	Natrayan L.; S. Sai Kumar; Guduri Padma Rao; Seeniappan Kaliappan; Ramya Maranan; Siva Kumar Pathuri	AI-Driven Crime Forecasting: Leveraging Digital Shadows for Safer Urban Spaces	5th Asian Conference on Innovation in Technology (ASIANCON), Pimpri, India	International	IEEE	Scopus	10.1109/ASI ANCON6652 7.2025.112806 44
14.	Natrayan L.; P. T. Chiranjeevi Swamy; Sripada V. S. S. Lakshmi; Seeniappan Kaliappan; Ramya Maranan; Siva Kumar Pathuri	YOLO-Based Segmentation and RFGB Classification Model for Nodular Goiter/Thyroid Diagnosis	5th Asian Conference on Innovation in Technology (ASIANCON), Pimpri, India	International	IEEE	Scopus	10.1109/ASI ANCON6652 7.2025.112810 67
15.	Natrayan L.; N. Vijaya Anand; D. Srikar; Seeniappan Kaliappan; Ramya Maranan; Siva Kumar Pathuri	A Novel Approach for Freshness Detection in Vegetables Fruits Using Deep Learning and Principal Component Analysis	IEEE International Conference on Advances in Computing Research on Science Engineering and Technology (ACROSET), Indore, India	International	IEEE	Scopus	10.1109/ACR OSET66531.2 025.11280784

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2025-2026)

16.	Natrayan L.; Kiranmai Doppalapudi; Guduri Padma Rao; Seeniappan Kaliappan; Ramya Maranan; Siva Kumar Pathuri	A Hybrid Deep Learning and Ensemble Approach for Nodular Goiter Diagnosis using YOLO and AdaBoost	IEEE International Conference on Advances in Computing Research on Science Engineering and Technology (ACROSET), Indore, India	International	IEEE	Scopus	10.1109/ACR OSET66531.2 025.11281050
17.	Natrayan L.; Sirisha J.; J. V. Rama Kumar; Seeniappan Kaliappan; Ramya Maranan; Siva Kumar Pathuri	A Multi-Model Ensemble Learning Approach for Cyberbullying Detection in Social Networks	IEEE International Conference on Advances in Computing Research on Science Engineering and Technology (ACROSET), Indore, India	International	IEEE	Scopus	10.1109/ACR OSET66531.2 025.11281039
18.	Natrayan L.; Seeniappan Kaliappan; T. Roseline Velankanni; N. Lakshmi; Ramya M.	LoRA Enhanced Large Language Models for Fault Diagnosis in Smart Factories	IEEE 5th International Conference on ICT in Business Industry & Government (ICTBIG), Indore, India	International	IEEE	Scopus	10.1109/ICTB IG68706.2025. 11323773
19.	Lakshmaiya N.; Seeniappan Kaliappan; M. Muthukannan;	Bayesian Network-Based Attention Mechanism for	IEEE 5th International Conference on ICT in Business Industry	International	IEEE	Scopus	10.1109/ICTB IG68706.2025. 11323931

DEPARTMENT OF MECHANICAL ENGINEERING

Conference Publications CAY (2025-2026)

	T. Roseline Velankanni; Ramya M.	Data Fusion in ADAS Vehicular Scenario	& Government (ICTBIG), Indore, India				
20.	Natrayan L.; Seeniappan Kaliappan; T. Roseline Velankanni; N. Lakshmi; Ramya M.	Hybrid DQN-GA Framework with Large Language Models for Multi- Objective Optimization in 3D Printing	IEEE 5th International Conference on ICT in Business Industry & Government (ICTBIG), Indore, India	International	IEEE	Scopus	10.1109/ICTB IG68706.2025. 11323641
21.	Natrayan L.; Seeniappan Kaliappan; M. Muthukannan; R. Priyadharshini; Ramya M.	GNN-Based Data Integration Using Ensemble Learning for Autonomous Vehicle Systems	IEEE 5th International Conference on ICT in Business Industry & Government (ICTBIG), Indore, India	International	IEEE	Scopus	10.1109/ICTB IG68706.2025. 11323761
22.	Lakshmaiya N.; Seeniappan Kaliappan; M. Muthukannan; R. Priyadharshini; Ramya M.	Soft Actor Critic Reinforcement Learning for Decentralized Secured Drone System	IEEE 5th International Conference on ICT in Business Industry & Government (ICTBIG), Indore, India	International	IEEE	Scopus	10.1109/ICTB IG68706.2025. 11323988
23.	Ravuri Yamuna; Seeniappan Kaliappan; Ramya M.; Siva Kumar Pathuri	Optimized YOLO and Gradient Boosting System for Breast Cancer Tumor Detection	2025 IEEE 6th Global Conference for Advancement in Technology (GCAT), Bangalore, India	International	IEEE	Scopus	10.1109/GCA T66372.2025.1 1368370

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2025-2026)

		in Medical Imaging					
24.	Putta Nageswara Rao; Seeniappan Kaliappan; Ramya M.; Siva Kumar Pathuri	Deep Ensemble Emotion Recognition from Speech Using YOLO Feature Extraction and RFXGB Classification	IEEE 6th Global Conference for Advancement in Technology (GCAT), Bangalore, India	International	IEEE	Scopus	10.1109/GCA T66372.2025.1 1368603
25.	K. Budda Vara Prasad; Godi Sushma; K. Pavan Raju; Seeniappan Kaliappan; Ramya Maranan; Siva Kumar Pathuri	Hybrid Deep Ensemble Approach Using ResNet101 and RFGB for Cardiovascular Disease Prediction	5th International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT), Mandya, India	International	IEEE	Scopus	10.1109/ICER ECT65215.202 5.11377934
26.	Peramalasetty Ramesh; Seeniappan Kaliappan; Ramya Maranan; Siva Kumar Pathuri	Optimized Hybrid Ensemble Learning Using Random Forest and CatBoost for Liver Disease Diagnosis	IEEE International Conference on Emerging Trends in Computing and Communication (ETCOM), Mangalore, India	International	IEEE	Scopus	10.1109/ETC OM66606.202 5.11437080
27.	Natrayan L.; Sangeeta Uranakar; Seeniappan Kaliappan;	YOLO-Enhanced RFGB Architecture for Deep Ensemble	2025 IEEE International Conference on Emerging Trends in	International	IEEE	Scopus	10.1109/ETC OM66606.202 5.11436883

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2025-2026)

	Ramya Maranan; S. Subashini; Siva Kumar Pathuri	Analysis of Post-COVID Cardiovascular Risk	Computing and Communication (ETCOM), Mangalore, India				
28.	Seeniappan Kaliappan; M. Muthukannan; Sonam Jain; Manmeet Kaur; Disha Garg; Ramdas Khomane	InceptionV3-Based Classification of Night Jasmine Leaf Diseases: Advancing Early Detection in Precision Agriculture	International Conference on Decision Aid Sciences and Applications (DASA), Manama, Bahrain	International	IEEE	Scopus	10.1109/DAS A68193.2025. 11499030
29.	M. Sreevani, S. Kaliappan, M. Muthukannan D. Bhardwaj	Deep Learning-Based Classification of Nail Diseases Using ResNet101: A Study on Healthy Nails, Onychomycosis, and Psoriasis	International Conference on Decision Aid Sciences and Applications (DASA), Manama, Bahrain	International	IEEE	Scopus	10.1109/DAS A68193.2025. 11499004
30.	K. Niranjan, S. Kaliappan, R. Priyadharshini R. Joshi	GhostNet-Based Peach Tree Disease Detection with Class-Aware Augmentation	International Conference on Decision Aid Sciences and Applications (DASA), Manama, Bahrain	International	IEEE	Scopus	10.1109/DAS A68193.2025. 11498916

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2025-2026)

31.	N. Verma, M. Muthukannan, S. Kaliappan, E. A. Banu, D. Joseph D. Sharma	MobileNetV3- Large for Retinopathy Severity and Edema Risk from Fundus Images and Clinical Captions	International Conference on Decision Aid Sciences and Applications (DASA), Manama, Bahrain	International	IEEE	Scopus	10.1109/DAS A68193.2025. 11499102
32.	S. Kaliappan, E. A. Banu, M. Shanmugapriya, S. N. Sashmi, Y. Bhaghal G. Kumar	TinyViT-Based Sugarcane Leaf Disease Detection with Balanced Dataset and Comprehensive Evaluation	International Conference on Decision Aid Sciences and Applications (DASA), Manama, Bahrain	International	IEEE	Scopus	10.1109/DAS A68193.2025. 11498854
33.	G. Lokesh, S. Kaliappan, N. Lakshmi Divyajot	Deep Learning- Driven Histopathological Analysis of Lung Cancer Using MobileNetV4- Large Architecture for Enhanced Diagnostic Accuracy	International Conference on Decision Aid Sciences and Applications (DASA), Manama, Bahrain	International	IEEE	Scopus	10.1109/DAS A68193.2025. 11498859
34.	P. Kaushik, S. Kaliappan, M. I, A. Saral,	Efficient Diagnosis of Jackfruit Leaf	International Conference on Decision Aid	International	IEEE	Scopus	10.1109/DAS A68193.2025. 11498791

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2025-2026)

	D. Joseph S. Sneha	Diseases through GhostNet-Based Deep Learning Framework	Sciences and Applications (DASA), Manama, Bahrain				
35.	N. S. Kumar, S. Kaliappan, Y. Saini J. Lande	Federated Learning for Privacy-Aware and Secure Medical Decision Support Systems	ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICET SIS), Manama, Bahrain	International	IEEE	Scopus	10.1109/ICET SIS68266.2026 .11549229
36.	M. Amreen, S. Kaliappan, K. R. Chythanya D. Garg	A Deep Transfer Learning Framework Based on EfficientNetB4 for Robust Neem Leaf Disease Diagnosis	ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICET SIS), Manama, Bahrain	International	IEEE	Scopus	10.1109/ICET SIS68266.2026 .11549366
37.	K. Uma Maheswari, S. Kaliappan, R. Sujitha, D. Garg	ResNet101-Based Classification of Night Jasmine Leaf Diseases Using Transfer Learning	ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICET SIS), Manama, Bahrain	International	IEEE	Scopus	10.1109/ICET SIS68266.2026 .11549375
38.	S. L. Lakshmi,	Eye Focused	ASU International	International	IEEE	Scopus	10.1109/ICET

DEPARTMENT OF MECHANICAL ENGINEERING

Conference Publications CAY (2025-2026)

	S. Kaliappan, M. Ankushavali, A. Mittal	EfficientNetB3 for Lightweight and Accurate Crossed Versus Normal Eye Classification	Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICETIS), Manama, Bahrain				SIS68266.2026 .11548906
39.	P. Bindumadhavi, S. Kaliappan, K. R. Chythanya A. S. Bangari	Risk-Aware Calibration and Interpretable Baselines for Mental Health Text Classification	2026 ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICETIS), Manama, Bahrain	International	IEEE	Scopus	10.1109/ICET SIS68266.2026 .11549367
40.	B. Bharathi, S. Kaliappan, N. Yamsani A. Sain	GhostNetV2- Based Lightweight Deep Learning Framework for Automated Betel Leaf Disease Classification	2026 ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICETIS), Manama, Bahrain	International	IEEE	Scopus	10.1109/ICET SIS68266.2026 .11549057
41.	CH. Rajeswari Manikandan I Mahip Aggarwal V Sumalatha	RIS-Assisted 6G Link Adaptation with Robust Beamforming	2026 ASU International Conference in Emerging	International	IEEE	Scopus	10.1109/ICET SIS68266.2026 .11549240

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2025-2026)

		Under Channel Uncertainty	Technologies for Sustainability and Intelligent Systems (ICET SIS), Manama, Bahrain				
42.	Nageswara Rao Putta Manikandan I Rishabh Bhasin K Kiran	DenseNet169-Based Transfer Learning Framework for Robust Multi-Class Tea Leaf Disease Detection and Classification	2026 ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICET SIS), Manama, Bahrain	International	IEEE	Scopus	10.1109/ICET SIS68266.2026.11549127

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DEPARTMENT OF MECHANICAL ENGINEERING

Conference Publications CAY (2024-2025)

S.No	Author Names	Title of the Paper	Conference Name	Conference Level	Organised By	Indexing	DOI
1.	Mohammed Saleh Al Ansari, K.M.B. Karthikeyan, Seeniappan Kaliappan , S. Yogeswari, Ramya Maranan, Pawan Devidas Meshram	Optimizing Aluminum Metal Matrix Composites with SiC Nanoparticles using Taguchi-ANN Approach for Enhanced Mechanical Performance	International Conference on Recent Advances in Waste Minimization & Utilization (RAWMU-2024), E3S Web of Conferences	International	EDP Sciences	Scopus	10.1051/e3sconf/202455601019
2.	Mohammed Saleh Al Ansari, Seeniappan Kaliappan , P. Bhargavi, Shital P. Dehankar, T. Mothilal, Ramya Maranan	Optimizing Surface Roughness in Turning of Al7072 with Nano Particles of Carbon Metal Matrix Composite using Taguchi Analysis and ANN Prediction	International Conference on Recent Advances in Waste Minimization & Utilization (RAWMU-2024), E3S Web of Conferences	International	EDP Sciences	Scopus	10.1051/e3sconf/202455601020
3.	Mohammed Saleh Al Ansari,	Estimation of Machining	International Conference on	International	EDP Sciences	Scopus	10.1051/e3sconf/

DEPARTMENT OF MECHANICAL ENGINEERING

Conference Publications CAY (2024-2025)

	Seeniappan Kaliappan , G. Bharath Reddy, M. Muthukannan, Ramya Maranan, Parthasarathi Mishra	Performance in Wire EDM of Aluminum Silicon Nitride Composite: An Experimental Analysis and ANN Modeling	Recent Advances in Waste Minimization & Utilization (RAWMU-2024), E3S Web of Conferences				20245560 1022
4.	Mohammed Saleh Al Ansari, A. Krishnakumari, M. Saravanan, Chappeli Sai Kiran, Seeniappan Kaliappan , Ramya Maranan	Experimental Insights and ANN-Based Surface Roughness Prediction through Analysis of Machined Surface Quality of Al2024/SiCp Composites	International Conference on Recent Advances in Waste Minimization & Utilization (RAWMU-2024), E3S Web of Conferences	International	EDP Sciences	Scopus	10.1051/ e3sconf/ 20245560 1023
5.	Avinash Malladi, T. Mothilal, Seeniappan Kaliappan , Lava Kumar Polisetty, M. Muthukannan, Ramya Maranan	A Comparative Analysis of ANN and Taguchi for Enhancing Predictive Modelling and Optimisation for Al-Base Metal Matrix Composites	International Conference on Recent Advances in Waste Minimization & Utilization (RAWMU-2024), E3S Web of Conferences	International	EDP Sciences	Scopus	10.1051/ e3sconf/ 20245560 1024

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2024-2025)

		Reinforced with Nanoparticles of SiC					
6.	Beporam Iftekhar Hussain, Seeniappan Kaliappan , Manikandan I, Lava Kumar Polisetty, M. Saravanan, Ramya Maranan	Predicting Wear Properties of Alloy 7090/SiC Nanoparticle Composites Using Artificial Neural Networks for Aerospace Application	International Conference on Recent Advances in Waste Minimization & Utilization (RAWMU-2024), E3S Web of Conferences	International	EDP Sciences	Scopus	10.1051/e3sconf/202455601025
7.	Arangarajan M., Seeniappan Kaliappan , P. Jayaraman, A.L.N. Arun Kumar, S. Arulmurugan, Ramya Maranan	Optimizing Mechanical Properties of Magnesium Matrix Composites via Stir Casting for Automobile Applications	International Conference on Recent Advances in Waste Minimization & Utilization (RAWMU-2024), E3S Web of Conferences	International	EDP Sciences	Scopus	10.1051/e3sconf/202455601026
8.	Seeniappan Kaliappan , S. Yogeswari, Manikandan I, Pranav Kumar Prabhaka, A.	Experimental Investigation on Mechanical Properties of Jute Nano SiC and Nano Carbon Hybrid Polymer Composite	International Conference on Recent Advances in Waste Minimization & Utilization (RAWMU-2024),	International	EDP Sciences	Scopus	10.1051/e3sconf/202455601027

DEPARTMENT OF MECHANICAL ENGINEERING

Conference Publications CAY (2024-2025)

	Krishnakumari, Ramya Maranan		E3S Web of Conferences				
9.	Seeniappan Kaliappan , V. Balaji, G. Bhavani Bharathi, Srinivas Aluvala	Data Mining for Predictive Analytics and Optimization of Treatment Plans in Cardiovascular Disease Management Using Neural Networks	2024 International Conference on Advancements in Smart, Secure and Intelligent Computing (ASSIC)	International	IEEE	Scopus (IEEE)	10.1109/ ASSIC60 049.2024. 10507964
10.	Seeniappan Kaliappan , M.D. Raj Kamal, V. Balaji, Gotte Ranjith Kumar	Advanced Neural Network Models for Predictive Analytics and Healthcare Management in Neurodegenerative Diseases	2024 International Conference on Advancements in Smart, Secure and Intelligent Computing (ASSIC)	International	IEEE	Scopus (IEEE)	10.1109/ ASSIC60 049.2024. 10508005
11.	Seeniappan Kaliappan , V. Balaji, S. Socrates, Nagendar Yamsani	Enhancing Precision Medicine through Artificial Neural Networks for Phenotyping and Risk Prediction of Rare Genetic Disorders	2024 International Conference on Advancements in Smart, Secure and Intelligent Computing (ASSIC)	International	IEEE	Scopus (IEEE)	10.1109/ ASSIC60 049.2024. 10507974

DEPARTMENT OF MECHANICAL ENGINEERING

Conference Publications CAY (2024-2025)

12.	C.K. Arvinda Pandian, N. Balaji, Seeniappan Kaliappan , L. Natrayan, Ramya Maranan, D. Ravi	Advancements in Lightweight Composite Materials for Enhancing the Structural Integrity of Automotive Component	SAE Technical Paper	International	SAE Internation al	Scopus	10.4271/ 2025-01- 5005
13.	M. Karthigairajan, Seeniappan Kaliappan , N. Balaji, L. Natrayan, Salman Basha Sheik, D. Ravi	Performance Analysis of Graphene-Coated Heat Pipe Heat Exchangers for Automobile Exhaust Cooling and Purification	SAE Technical Paper	International	SAE Internation al	Scopus	10.4271/ 2025-01- 5006
14.	L. Natrayan, Seeniappan Kaliappan , V. Swamy Nadh, Ramya Maranan, V. Balaji	A Novel Approach for Integrating Virtual Reality in the Ergonomic Testing of Automotive Interior Designs	SAE Technical Paper	International	SAE Internation al	Scopus	10.4271/ 2024-01- 5243
15.	L. Natrayan,	Utilizing High- Performance Thermoplastics to	SAE Technical Paper	International	SAE Internation al	Scopus	10.4271/ 2024-01- 5245

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2024-2025)

	Seeniappan Kaliappan , T. Mothilal, N. Balaji, Ramya Maranan, D. Ravi	Improve Durability and Efficiency in Automotive Instrument Panels					
16.	K. Karpagavadivu, Senthilkumar Sakthivel, M. Ramya, Seeniappan Kaliappan , R. Maranan, Nitheesh S	High-Resolution NLP for Social Healthcare Networks: Text Classification through Integration of Causal Dilated Cosine Architecture Optimized by Weighted Leadership Navigator for Advanced Insights	2024 IEEE 4th International Conference on ICT in Business, Industry & Government (ICTBIG 2024)	International	IEEE	Scopus (IEEE)	https://doi.org/10.1109/ICTBIG64922.2024.10911601
17.	Seeniappan Kaliappan , Bhawna Sinha, M. Ramya, Srinivas Aluvala, Nitheesh S, R. Maranan	Random Coupled Neural Network with Sand Cat Swarm Optimization for Automatic Object	2024 IEEE 4th International Conference on ICT in Business, Industry & Government (ICTBIG 2024)	International	IEEE	Scopus (IEEE)	10.1109/ICTBIG64922.2024.10911661

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2024-2025)

		Detection in Aerial Images					
18.	Seeniappan Kaliappan , M. Muthukannan, N. Durga Devi, M.M. Irfan, R. Maranan, M. Ramya	A Novel Approach to Hand Gestures Recognition Using Optimized Quantum GAN and ResNet-152 Features	2024 IEEE 4th International Conference on ICT in Business, Industry & Government (ICTBIG 2024)	International	IEEE	Scopus (IEEE)	https://doi.org/10.1109/ICTBIG64922.2024.10911217
19.	Seeniappan Kaliappan , R. Maranan, M. Muthukannan, Ram Deshmukh, Jegan Gnanasekaran, M. Ramya	An Optimized Hamiltonian Quantum Generative Network Based Drug-Drug Interactions Prediction Through Combining Local and Global Features	2024 IEEE 4th International Conference on ICT in Business, Industry & Government (ICTBIG 2024)	International	IEEE	Scopus (IEEE)	https://doi.org/10.1109/ICTBIG64922.2024.10911684
20.	Seeniappan Kaliappan , G. Muthu, S. Sivacharan, M. Ramya, R. Maranan	Biodegradable Flax Fiber-Based Nonwovens for Oil Spill Mitigation and Environmental Protection	International Conference on Medical Imaging, Electronic Imaging, Information Technologies, and Sensors (MIEITS)	International	SPIE (International Society for Optics and Photonics)	Scopus	10.1117/12.3058643

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2024-2025)

			2025), Proceedings of SPIE Vol. 13631				
21.	Seeniappan Kaliappan , G. Muthu, M. Sai Chaithanya, M. Ramya, R. Maranan	Low Temperature Sol-Gel Synthesis of Nanocrystalline Aluminium Oxide in Hemp Fibres for Enhanced UV Resistance	International Conference on Medical Imaging, Electronic Imaging, Information Technologies, and Sensors (MIEITS 2025), Proceedings of SPIE Vol. 13631	International	SPIE (International Society for Optics and Photonics)	Scopus	10.1117/12.3058644
22.	Seeniappan Kaliappan , V. Balaji, Talapa Reddy Suman Kumar, M. Ramya, R. Maranan	Development and Characterization of Kenaf Filament Reinforced Chitosan Biocomposites	International Conference on Medical Imaging, Electronic Imaging, Information Technologies, and Sensors (MIEITS 2025), Proceedings of SPIE Vol. 13631	International	SPIE (International Society for Optics and Photonics)	Scopus	10.1117/12.3058645
23.	Seeniappan Kaliappan , Naga Dheeraj Kumar Reddy Chukka, M. Ramya,	Enhancing Moisture Management and UV Protection in Cotton Fabrics Using Nano-TiO ₂	International Conference on Medical Imaging, Electronic Imaging, Information Technologies, and	International	SPIE (International Society for Optics and Photonics)	Scopus	10.1117/12.3058646

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAY (2024-2025)

	Vinay Kumar Reddy, Maranan R	and Hydrophilic Sprays	Sensors (MIEITS 2025), Proceedings of SPIE Vol. 13631				
24.	Seeniappan Kaliappan, Vandanapu Swamy Nadh, M. Ramya, Pankaj Kumar, Maranan R	Comparative Study of Treated and Untreated Crotalaria juncea L. Fibres in Polyester Matrices	International Conference on Medical Imaging, Electronic Imaging, Information Technologies, and Sensors (MIEITS 2025), Proceedings of SPIE Vol. 13631	International	SPIE (Internatio nal Society for Optics and Photonics)	Scopus	10.1117/ 12.30586 47

S. Jesudoss Thomas.

HOD/MECH

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm1 (2023-2024)

S.NO	AUTHOR NAMES	TITLE OF THE PAPER	CONFERENCE NAME	CONFERENCE LEVEL	ORGANISED BY	INDEXING	DOI
1.	Srinivasan, K. V., Arulprakasajothi M , Tiwari, V. B.	High-Efficiency Hybrid Regenerator for Cryogenic Applications Using Additive Manufacturing.	5th International ISHMT-ASTFE Heat and Mass Transfer Conference	International	IIT Patna	Scopus	http://dx.doi.org/10.1615/IHMTC-2023.1700
2.	K. S. Vijaysekar , K. Gobivel , Chithirai Pon Selvan, M. Krishnanand , E. Malarmathi , N. Mohamed Saajid , A. Mohanraj	Investigation into the End-Milling Parameters of Mg/B4C Metal Matrix Composites	International Conference on Processing and Performance of Materials	International	SSN College of Engineering	Scopus	https://doi.org/10.3390/engproc2024061033
3.	K.S. Vijay Sekar K. Gobivel Chithirai Pon Selvan S. Ashwinkumaran D.S. Balaji Adithya U. Chandrapraban B. Harish Ragavendar	Effects of process parameters on drilling of Magnesium-reinforced with B4C composite	International Conference on Processing and Performance of Materials	International	SSN College of Engineering	Scopus	https://doi.org/10.1016/j.matpr.2024.03.008
4.	S. Kaliappan , L. Natrayan	Polypropylene Composite Materials with Natural Fiber	International Conference on Trends in Automotive Parts	International	Sri Krishna College of Engineering and	Scopus	https://doi.org/10.4271/2023-01-5130

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm1 (2023-2024)

		Reinforcement: An Acoustic and Mechanical Analysis for Automotive Implementations	Systems and Applications		Technology		
5.	L. Natrayan Kaliappan Seeniappan	Effectiveness of Titanium Dioxide Nano Fillers on Sisal fiber for Enhanced Mechanical Properties and Occupant Protection in Hybrid Nanocomposites	International Conference on Trends in Automotive Parts Systems and Applications	International	Sri Krishna College of Engineering and Technology	Scopus	https://doi.org/10.4271/2023-01-5114
6.	S. Kaliappan L. Natrayan	Impact of Kenaf Fiber and Inorganic Nanofillers on Mechanical Properties of Epoxy-Based Nanocomposites for Sustainable Automotive Applications	International Conference on Trends in Automotive Parts Systems and Applications	International	Sri Krishna College of Engineering and Technology	Scopus	https://doi.org/10.4271/2023-01-5114
7.	Kaliappan	Enhancing the	International	International	Symbiosis	Scopus	https://doi.org/10.4271/2023-01-5114

DEPARTMENT OF MECHANICAL ENGINEERING

Conference Publications CAYm1 (2023-2024)

	Seeniappan, Ramya Maranan, Niveditha V.R, Venkataramana Veeramsetty	Efficiency of Computational Genetic Epidemiology using HPC- Driven AI Models	Conference on Applied Artificial Intelligence		University of Applied Sciences		org/10.1109/ /ICTBIG597 52.2023.1045 5975
8.	Kaliappan Seeniappan, V. Paranthaman, Raj Kamal, Venkataramana Veeramsetty	Enhancing the Resilience of Industrial Cyber- Physical Systems against External Threats	International Conference on Applied Artificial Intelligence	International	Symbiosis University of Applied Sciences	Scopus	https://doi. org/10.1109 /ICTBIG597 52.2023.1045 6005
9.	Kaliappan Seeniappan Niveditha V.R Ramya Maranan M. M. Irfan	Investigating the Synergies between Decentralized Protocols and Edge Intelligence for a Resilient Web3.0 Infrastructure	International Conference on Applied Artificial Intelligence	International	Symbiosis University of Applied Sciences	Scopus	https://doi. org/10.1109 /ICTBIG597 52.2023.1045 6119
10.	Kaliappan Seeniappan M. Muthukannan S. Socrates Ram Deshmukh	The Healthcare Internet of Things as a Paradigm Shift in Hospital Management, Patient Care, and Medical Data Analysis	International Conference on Applied Artificial Intelligence	International	Symbiosis University of Applied Sciences	Scopus	https://doi. org/10.1109 /ICTBIG597 52.2023.1045 5981

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm1 (2023-2024)

11.	Kaliappan Seeniappan S. Socrates D. Ravi Gotte RANJITH Kumar	A Comprehensive Framework for Data-Driven Management of Chronic Pain with Machine Learning and Advanced Analytics	International Conference on Applied Artificial Intelligence	International	Symbiosis University of Applied Sciences	Scopus	https://doi.org/10.1109/ICTBIG597.52.2023.10456199
12.	Kaliappan Seeniappan S. Radhika D. Ravi Srinivas Aluvala	A Data-Driven Approach to Improving Neonatal Care through Artificial Intelligence and Clinical Data Integration	IEEE International Conference on ICT in Business Industry & Government	International	Symbiosis University of Applied Sciences	Scopus	https://doi.org/10.1109/ICTBIG597.52.2023.10456148
13.	Natrayan Lakshmaiya, Kunnathur Periyasamy Yuvaraj , Seeniappan Kaliappan , Vinay Kumar Reddy, Haleem Mohammed Ali	Evaluating the Wear and Mechanical Properties of Cotton Fabrics for Women's Summer Clothing	International Conference on Processing and Performance of Materials	International	SSN College of Engineering	Scopus	https://doi.org/10.3390/engproc2024061015
14.	Natrayan Lakshmaiya , S. Kaliappan , Neelima Devi Chinta, Padmanaban	Mechanical and Thermal Characteristics of Coir Powder-	International Conference on Processing and Performance of	International	SSN College of Engineering	Scopus	https://doi.org/10.3390/engproc2024061013

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm1 (2023-2024)

	Govindarajulu	Filled Epoxy Composites for Industrial Application	Materials				
15.	Arvinda Pandian, Seeniappan Kaliappan , L. Natrayan, Vinay Reddy	Analyzing the Moisture and Chemical Retention Behavior of Flax Fiber-Ceramic Hybrid Composites for Automotive Underbody Shields	Automotive technical papers	International	SAE International	Scopus	https://doi.org/10.4271/2024-01-5006
16.	Seeniappan Kaliappan , V. Paranthaman, L. Natrayan, Bura Vijay Kumar, M Muthukannan	Leveraging Machine Learning Algorithm for Predicting Personality Traits on Twitter	Confluence	International	Amity University	Scopus	https://doi.org/10.1109/Confluence60223.2024.10463468
17.	Kaliappan Seeniappan , L. Natrayan	Optimizing Carbon Monoxide Emission Reduction Using Rice Husk Activated Carbon in Automobile	Automotive technical papers	International	SAE International	Scopus	https://doi.org/10.4271/2024-01-5054

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm1 (2023-2024)

		Exhaust Systems					
18.	L. Natrayan, Seeniappan Kaliappan , V. Balaji, V. Mahesh	Effects of Injection Molding on Linum usitatissimum Fiber Polyvinyl Chloride Composites for Automotive Underbody Shields and Floor Trays	Automotive technical papers	International	SAE International	Scopus	https://doi.org/10.4271/2024-01-5053
19.	L. Natrayan, Kaliappan Seeniappan	Surface Modification of Henequen Fibers with Catalyst for Improving Mechanical and Thermal Properties in Phenolic Composites for Automotive Uses	Automotive technical papers	International	SAE International	Scopus	https://doi.org/10.4271/2024-01-5029
20.	Kaliappan Seeniappan , Raj Kamal, V. Balaji, Gotte RANJITH Kumar	Enhancing Precision Medicine through Artificial Neural Networks for Phenotyping and	International Conference on Advancements in Smart, Secure and Intelligent Computing	International	KIIT - DU Campus	Scopus	https://doi.org/10.1109/ASSIC60049.2024.10507974

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm1 (2023-2024)

		Risk Prediction of Rare Genetic Disorders					
21.	Selvakumar Velu, Siva Ramanan, M.Vignesh Kumar	Experimental Investigation of Material Flow and welding Defects in friction Welding Process of Cu-SS Dissimilar Materials	International Conference on Research and Development in Engineering, Science and Technology	International	Mohamed Sathak AJ College of Engineering	Google Scholar	https://doi.org/10.22214/ijraset.2024.63295
22.	Patlola Madhusudhan N.S. M.P. Latha Devi Seeniappan Kaliappan Dinesh Chandra Pandey J. Sai Chandra C.A. Jyothirmayee	Improving the productivity of the solar-based evaporative still (SBES) using the nano-coated absorber	International Conference on Materials, Manufacturing and Modelling.	International	VIT	Scopus	https://doi.org/10.1016/j.matpr.2023.09.014
23.	SK. Fakruddin Babavali, N.S.M.P. Latha Devi, Seeniappan Kaliappan , N.R. Rajagopalan, Neha Garg, V. Nagalakshmi, N.S.M.P. Latha Devi,	Thermal management of PV panel through the circulation of a nano-MgO/ water-based nanofluid	International Conference on Materials, Manufacturing and Modelling.	International	VIT	Scopus	https://doi.org/10.1016/j.matpr.2023.09.001

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm1 (2023-2024)

	N.R. Rajagopalan						
24.	L. Natrayan, S. Kaliappan	Mechanical Assessment of Carbon-Luffa Hybrid Composites for Automotive Applications	Automotive technical papers	International	SAE International	Scopus	doi:10.4271/2023-01-5070.
25.	L. Natrayan Seeniappan Kaliappan N. Balaji V. Mahesh	Dynamic Mechanical and Thermal Properties of Polymer Coated Jute Fibers for Enhanced Automotive Parts	Automotive technical papers	International	SAE International	Scopus	doi:10.4271/2024-01-5019.
26.	Seeniappan Kaliappan, M.D.Raj Kamal V.Balaji Gotte Ranjith kumar	Advanced Neural Network Models for Predictive Analytics and Healthcare Management in Neurodegenerative Diseases	International Conference on Advancements in Smart, Secure and Intelligent Computing	International	KIIT - DU Campus	Scopus	DOI: 10.1109/AS-SIC60049.2024.10508005
27.	Seeniappan Kaliappan V. Balaji G. Bhavani Bharathi Srinivas Aluvala	Data Mining for Predictive Analytics and Optimization	International Conference on Advancements in Smart, Secure and	International	KIIT - DU Campus	Scopus	DOI: 10.1109/AS-SIC60049.2024.10507964

DEPARTMENT OF MECHANICAL ENGINEERING

Conference Publications CAYm1 (2023-2024)

		of Treatment Plans in Cardiovascular Disease Management using Neural Networks	Intelligent Computing				
28.	R. Ragumadhavan, D. Sateesh Kumar, L.N. Charyulu Rompicharla, Shiv Ashish Dhondiya, Seeniappan. Kaliappan, L. Natrayan	Design and Development of Light Communication Systems using Modulation Techniques	International Conference on Electronics, Communication and Aerospace Technology	International	RVS Technical Campus	Scopus	DOI: 10.1109/ICECA58529.2023.10395831
29.	L. Natrayan S. K. Ashok Seeniappan Kaliappan Pankaj Kumar	Effect of Stacking Sequence on Mechanical Properties of Bamboo/Bagasse Composite Fiber for Automobile Seat Cushions and Upholstery Application	Automotive technical papers	International	SAE International	Scopus	doi:10.4271/ 2024-01- 5013
30.	Maganti Syamala, Seeniappan Kaliappan, Haripriya	Performance Analysis of Lightweight	International Conference on Smart Electronics and	International	Kongunadu College of Engineering	Scopus	https://doi. org/10.1109 /ICOSEC58

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm1 (2023-2024)

	M P, K.P. Aishwarya, R. Venkatesh, Anuj Raturi	Virtualization for Environments with Edge Computing Based on NFV	Communication		and Technology		147.2023.102 75860
31.	Dr. Z Edward Kennedy	Effect of Hot Rolling Aluminium 5052 Alloy	International Conference on Research and Development in Engineering, Science and Technology	International	Mohamed Sathak AJ College of Engineering, Chennai		
32.	Mr. K Gobivel	Cutting Force Analysis During Machining of Inconel 625	International Conference on Research and Development in Engineering, Science and Technology	International	Mohamed Sathak AJ College of Engineering, Chennai		
33.	Dr. M Vignesh Kumar	Experimental Investigation of Material Flow and welding Defects in friction Welding Process of Cu-SS Dissimilar Materials	International Conference on Research and Development in Engineering, Science and Technology	International	Mohamed Sathak AJ College of Engineering, Chennai		
34.	Dr. D Easu	Optimum Suspension Parameters for on-	International Conference on Research and	International	Mohamed Sathak AJ College of		

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm1 (2023-2024)

		road Passenger vehicles using permanent Magnets and MRF dampers	Development in Engineering, Science and Technology		Engineering, Chennai		
35.	Mr. I Manikandan	Improving surface Quality of Metal by Natural Fiber for Metal Furniture	International Conference on Research and Development in Engineering, Science and Technology	International	Mohamed Sathak AJ College of Engineering, Chennai		

S. Jesudoss Thomas.

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DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm2 (2022-2023)

S.NO	AUTHOR NAMES	TITLE OF THE PAPER	CONFERENCE NAME	CONFERENCE LEVEL	ORGANISED BY	INDEXING	DOI
1.	S. Charukesh, K. Gobivel , K. Gowtham, E. Saikiran, V. Kailash Niveshith	Understanding the process parameters on milling of Ti/B4C metal matrix composite	International Conference on “Application in Computational Engineering & Science”	International	Rajalakshmi Engineering College, Chennai, India	SCOPUS	https://doi.org/10.1016/j.matpr.2023.02.248
2.	S. Ravindran, L. Reeta Carolin, V. Gopal , K. Ramesh, G. Ravi, S. Sathya	Influence of nano-TiC content on the properties of Al2024 aluminium metal matrix composites	International Conference on Newer Engineering Concepts and Technology	International	Muthayammal Engineering College, Rasipuram, Tamil Nadu	SCOPUS	https://doi.org/10.1016/j.matpr.2022.07.371
3.	K. Gobivel , K.S. Vijay Sekar	Experimental and numerical investigations in the turning of 42CrMo alloy steel	International Conference on “Application in Computational Engineering & Science”	International	Rajalakshmi Engineering College, Chennai, India	SCOPUS	https://doi.org/10.1016/j.matpr.2023.04.105
4.	R. Ashok Kumar, B. Indra Prasad, Chidambaranathan Bibin, Isaac Jerry Thomas , Gopinath Soundararajan ,	Physical and mechanical characterization of Al7075/Si3N4 metal matrix composite prepared by stir	3rd International Congress on Mechanical and Systems Engineering (CAMSE 2022)	International	SSN College of Engineering, Chennai	SCOPUS	https://doi.org/10.1016/j.matpr.2022.11.096

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm2 (2022-2023)

	P.R. Darshan, S. Arunkumar	casting technique					
5.	Jose Anand, K. Nirmala Devi, Z. Edward Kennedy , R. Dhanalakshmi	Processing techniques for sensor materials; A review	International Conference on Integration of Advanced Technologies for Industry 4.0 : Materials Science	International	KCG College of Technology, Chennai	SCOPUS	https://doi.org/10.1016/j.matpr.2021.12.597
6.	Dr. M Kannan	Experimental Study Of The Performance, Emission And Combustion Characteristics Of Diesel Engine Fuelled By Waste Orange Peel Oil	Virtual Conference of Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2022)	International	SSN College of Engineering, Chennai	Conference Proceedings	
7.	Dr. S Jesudass Thomas Ashwin Venugopal	Design and Analysis of Quadcopter Propeller Guard	International Conference on Integration of Advanced Technologies for Industry 4.0	International	KCG College of Technology, Chennai	Conference Proceedings	
8.	K Gobivel Sai Shruthi,	Tool Vibration and Chip Formation studies on machining of AISI	International Conference on Integration of Advanced	International	KCG College of Technology, Chennai	Conference Proceedings	

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm2 (2022-2023)

		304 Stainless Steel	Technologies for Industry 4.0				
9.	D. Yogaraj, Dr. Z Edward Kennedy, Dr. V. Andal,	Development Of Superhydrophobic Composite Coating With Self Cleaning Property, Resistance For Corrosion, Wear And Drag Reduction	International Conference on Integration of Advanced Technologies for Industry 4.0	International	KCG College of Technology, Chennai	Conference Proceedings	
10.	Dhanushaa Dr. S Jesudass Thomas	Design And Fabrication Of Dehydration Chamber Using Waste Heat Recovery	International Conference on Integration of Advanced Technologies for Industry 4.0	International	KCG College of Technology, Chennai	Conference Proceedings	
11.	Pradesh.N, Dr. Z Edward Kennedy	Study of Mechanical Properties of Al7075 reinforced with CuO nanoparticles	International Conference on Integration of Advanced Technologies for Industry 4.0	International	KCG College of Technology, Chennai	Conference Proceedings	
12.	Sairam C I Manikandan	Experimental Investigation on TIG Welded copper B370 and stainless steel 434	International Conference on Integration of Advanced Technologies for Industry 4.0	International	KCG College of Technology, Chennai	Conference Proceedings	



DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm2 (2022-2023)

S. Jesudoss Thomas.

HOD/MECH

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm3 (2021-2022)

S.NO	AUTHOR NAMES	TITLE OF THE PAPER	CONFERENCE NAME	CONFERENCE LEVEL	ORGANISED BY	INDEXING	DOI
1.	Z. Edward Kennedy, G. Rajaram	Tribological behavior of metallo-ceramic composites for high friction and high temperature applications	International Conference on Integration of Advanced Technologies for Industry 4.0 : Materials Science	International	KCG College of Technology, Chennai, India	SCOPUS	https://doi.org/10.1016/j.matpr.2021.07.298
2.	T. Raja, R. Prabhakaran, D. Praveen Kumar, D. Sathish	Mechanical and tribological characteristics of AL7075/MWCN T, B4C & MoS2 hybrid metal matrix composites	2nd International Conference on Functional Material, Manufacturing and Performances (ICFMMP-2021)	International	Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India	SCOPUS	https://doi.org/10.1016/j.matpr.2021.06.262
3.	R. Manikandan, MohdF. Shabir, T. Raja, P.Muniraja Chandra, Syed Salman, I. Vasim Akram	Effect of various phase change materials (paraffin wax/ hydrogenated vegetable oil) packed in a fabricated shell and tube type heat exchanger	International Conference on Advances in Materials Research	International	PSNA College of Engineering and Technology, Dindigul, Tamil Nadu, India	SCOPUS	https://doi.org/10.1016/j.matpr.2020.07.231

DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm3 (2021-2022)

4.	Kanimozhiraman, Edward Kennedy	Optimization of Jet Impingement Erosion Process of Alumina- Titania coated stainless steels	International Conference on Integration of Advanced Technologies for Industry 4.0 : Materials Science	International	KCG College of Technology, Chennai, India	SCOPUS	https://doi.org/10.1016/j.matpr.2022.01.482
5.	Z. Edward Kennedy, Dr.Shivappa, S. Mohan	Suitability of Magnesium and Titanium alloys as implant materials	International Conference on Integration of Advanced Technologies for Industry 4.0 : Materials Science	International	KCG College of Technology, Chennai, India	SCOPUS	https://doi.org/10.1016/j.matpr.2022.03.210
6.	Z. Edward Kennedy, Arul Inigo Raja	Evaluation of mechanical properties of Al- B4C and Al-SiC metal matrix composites - A comparison	International Conference on Integration of Advanced Technologies for Industry 4.0 : Materials Science	International	KCG College of Technology, Chennai, India	SCOPUS	https://doi.org/10.1016/j.matpr.2021.08.356
7.	Z. Edward Kennedy, Arul Inigo Raja	Influence of stacking sequence and hybridization on the mechanical and tribological properties of glass and jute fiber composites	International Conference on Integration of Advanced Technologies for Industry 4.0 : Materials Science	International	KCG College of Technology, Chennai, India	SCOPUS	https://doi.org/10.1016/j.matpr.2021.06.294



DEPARTMENT OF MECHANICAL ENGINEERING
Conference Publications CAYm3 (2021-2022)

8.	Arul Inigo Raja, Z. Edward Kennedy, G. Rajaram, G. Prabhakaran	Erosion behavior of Tungsten carbide- cobalt and alumina coatings on stainless steel 316	International Conference on Integration of Advanced Technologies for Industry 4.0 : Materials Science	International	KCG College of Technology, Chennai, India	SCOPUS	https://doi. org/10.1016 /j.matpr.202 1.07.514
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