



# BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution Affiliated to Anna University Accredited by NAAC with 'A+' Grade

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## Research and Development (Centre for Research) @ Research Park

# Research Newsletter

Dec 2023 – May 2024  
Volume 05 | Issue 02



# Centre for Research (CFR)

## Institute Vision

To be a centre of excellence, providing world-class education that transforms individuals into intellectual, empathetic and responsible citizens.

## CFR Mission

- To indulge in extensive core and multi-disciplinary research activities
- To integrate research and education
- To develop core group of faculty members with high research potential

## Specific Objectives

- Effective utilization of existing facilities and to establish new facilities
- Enable faculty members and students to translate the knowledge and research into new products to improve the lifestyle of the people
- Ensure timely disclosure of all potential Inventions / Innovations and results of research activities by faculty members/students through patents or proper mode of publications with relevant property rights



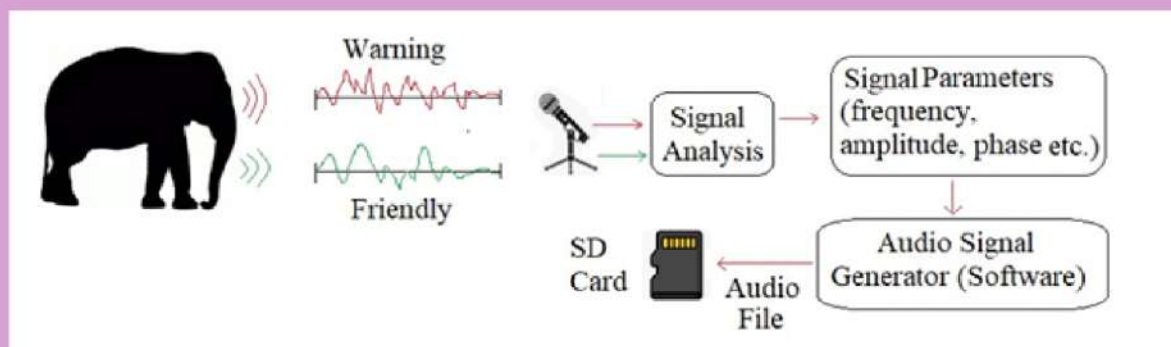
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## FUNDING PROPOSALS - SANCTIONED

### 1 TO DESIGN AND FIELD TRIAL THE VERY FIRST INFRASONIC WARNING CALL GENERATOR SYSTEM (IWCGS) SPECIFIC TO THE ELEPHANT.



Grantee	: Dr. Sanjoy Deb
Funding agency	: SERB-CRG
Amount	: Rs. 15,18,000/-
Duration	: 3 Years
Sanctioned Date	: 19.01.2024
Area of Research	: EMBEDDED SYSTEM

#### ***Scope of Sanctioned Funding:***

The development and field trial of the very first Infrasonic Warning Call Generator System (IWCGS) tailored specifically for elephants represents a groundbreaking advancement in wildlife conservation and human-animal conflict mitigation. Elephants communicate using infrasonic calls, which are low-frequency sounds below the threshold of human hearing, capable of traveling long distances. By designing a system that can generate these calls, aim to influence elephant behavior, potentially preventing them from entering human-populated areas and reducing conflicts. This technology could play a crucial role in preserving elephant habitats, enhancing human safety, and promoting coexistence. The field trials will focus on assessing the system's effectiveness, range, and impact on elephant behavior in various environmental conditions, providing valuable insights for further refinement and broader implementation.



# 2

## TO REDESIGN THE GARBAGE BIN AND TO DEVELOP A SOLAR POWERED PUSHKART VEHICLE



Grantee : Dr. U. Venkateshkumar  
Funding agency : SERB-SEED  
Amount : Rs. 18,86,130/-  
Duration : 2 Years  
Sanctioned Date : 01.12.2023  
Area of Research : SOLAR ENERGY

### ***Scope of Sanctioned Funding:***

To design a solar powered push cart vehicle for rural areas to collect the garbage household waste by panchayat. This type of vehicle will help the women to collect the waste from every house including newly developing area and it supports transport of waste to the waste processing unit. Solar power vehicle can be replaced with existing battery vehicle, and this vehicle will be environmentally friendly and self-sustainable. Panchayat can handle the waste when compared to the existing system and can be processed to natural manure. The figure shown below is only a model of the vehicle to be fabricated with modifications as per the project.

## FUNDING PROPOSALS - ONGOING

# 1

### DESIGN AND FIELD TRIAL OF AN IOT BASED ULTRA-LOW-COST GROUND VIBRATION TRACKER FOR MINING SECTORS



Grantee	: Dr. Sanjoy Deb
Funding agency	: Technology Innovation in Exploration & Mining Foundation
Amount	: Rs. 14,13,000/-
Duration	: 2 Years
Sanctioned Date	: 31.07.2023
Area of Research	: EMBEDDED SYSTEM

#### ***Scope of Sanctioned Funding:***

The design, development, and field trial of an Internet of Things (IoT) based ultra-low-cost ground vibration tracker specifically tailored for the mining sector. The device aims to monitor and analyze ground vibrations in mining operations, providing crucial data for assessing the impact on infrastructure, ensuring safety, and optimizing mining processes. The project encompasses the entire lifecycle of the tracker, from conceptualization and hardware design to software development and implementation. Through a comprehensive field trial, the effectiveness and reliability of the tracker will be evaluated in real-world mining conditions, with the ultimate goal of delivering a cost-effective and efficient solution to enhance the monitoring and management of ground vibrations in mining activities.



## 2

## SKILL AND PERSONALITY DEVELOPMENT PROGRAMME CENTRE FOR SC/ST STUDENTS



Grantee	: Dr. Balakrishnaraja
Funding agency	: Start up India
Amount	: Rs. 2,00,00,000/-
Duration	: 3 Years
Sanctioned Date	: 26.04.2023
Area of Research	: START UP

### *Scope of Sanctioned Funding:*

A skill and personality development program for SC/ST students holds immense potential for fostering empowerment and inclusivity. By imparting essential skills such as communication, leadership, and technical proficiency, the program equips participants with the tools necessary to navigate a competitive job market. Beyond mere vocational training, it addresses systemic barriers and boosts self-confidence, enabling SC/ST students to overcome social and economic challenges. The holistic approach, combining skill enhancement with personality development, not only enhances employability but also cultivates a sense of agency and resilience, contributing to the overall socio-economic upliftment of the marginalized community.

# 3

## PROFILING AND DEVELOPMENT OF EXOSOME-BASED NOVEL ANTI-ARTHRITIC FLAVONOID FORMULATION



Grantee	: Dr. L. Dinesh Kumar
Funding agency	: SERB
Amount	: Rs. 20,50,000/-
Period	: 3 years
Sanctioned Date	: 22.08.2022
Area of Research	: BIOPHARMACEUTICA TECHNOLOGY

### ***Scope of Sanctioned Funding:***

Profiling and development of exosome-based novel anti-arthritis flavonoid formulation to mitigate the hif regulated angiogenic-pannus growth in rheumatoid arthritis. The bioactive flavonoids, which have been identified and scientifically confirmed for their disease suppressing effects in ra will be collected from standard research literature/ databases and pharmacokinetic properties will be analysed along with the exosomes retrieved from fibroblast-like synoviocytes.

Besides, the association of ra-angiogenesis (RA-AG) regulatory targets with other Pathway mediators and bioactive small molecules will be assessed using network Pharmacology (string/stitch). Possible mechanism of the flavonoids and their predicted ra-ag targets will further be assessed with interaction and stability analysis by molecular docking and dynamics studies. Finally, the modulatory efficiency of the compound in the ra-ag pathway will be studied by in vitro cell culture (MH7A-fls cell line). The effective flavonoid compounds will then be



# 4

## DEVELOPMENT OF INTEGRATED 6-PHASE ELECTRIC DRIVE SYSTEM FOR HYBRID/ELECTRIC VEHICLES AND TO PROMOTE SUSTAINABLE AGRICULTURE IN RURAL AREAS



Grantee : Dr. P. Sivaraman  
Funding agency : AICTE - RPS  
Amount : Rs. 13,74,333/-  
Period : 3 years  
Sanctioned Date : 18.02.2022  
Area of Research : ELECTRIC VEHICLE

### *Scope of Sanctioned Funding:*

The rural people are highly dependent on public transportation that is not available during the pandemic situation. In future, with the proposed system the reduced size and cost of the electric vehicle making it feasible for rural people to be connected with towns for emergency. Also, it reduces the impact of CO2 emission caused by internal combustion engines resulting replacement of fossil fuel with battery-operated vehicles. The proposed system offers an integrated inverter along with the motor resulting in reduced which is very compatible with 2&3wheeler, small cars, public & last-mile transportation for rural people

## 5 TECHNOLOGICAL INTERVENTIONS FOR ENHANCING PRODUCTIVITY, SCALABILITY AND VALUE ADDITION TO OBTAIN FIBER FROM A LOCAL PLANT (URTICA DIOICA) FOR TRIBALS IN NAGALAND



Grantee	: Dr. S. Arun Jayakar (Level III), Department of EIE
Funding agency	: DST - SEED
Amount	: Rs. 68,82,120/-
Period	: 3 years
Sanctioned Date	: 06.02.2020
Area of Research	: TEXTILE PROCESSING

### ***Scope of Sanctioned Funding:***

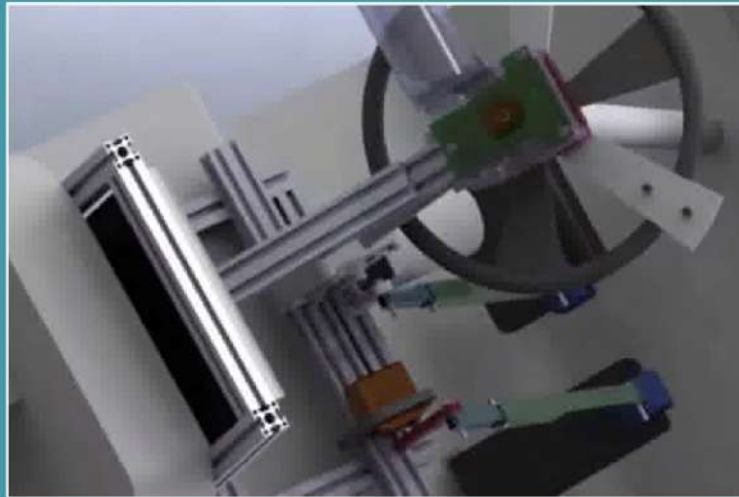
Design and development of textile machine, value addition and training to naga tribals notable accomplishments. Portable size of nettle fibre equipments like crushing setup, carding unit and roving machine are developed. The treated nettle samples are tested on developed machines in order to produce the nettle yarn. To save the energy, solar panels are used to run the newly developed machines. The hill innovation lead organisation (HILO) is an ngo at nagaland, provided training on value addition of the nettle fiber to the tribal peoples in nagaland.



## Funding Proposals - Completed

# 1

### DEVELOPMENT OF SELF-DRIVEN VEHICLE



Grantee	: Dr. L. Rajasekar
Funding agency	: Institution of Engineering and Technology (IET)
Amount	: Rs. 59,275/-
Period	: 1 year
Date of Completion	: 11.12.2023

#### ***Scope of Sanctioned Funding:***

Self-driven vehicles encompasses the design, implementation, and testing of autonomous driving technologies, including advanced sensor systems, artificial intelligence algorithms, and real-time data processing. It involves creating robust vehicle control systems, developing safety and regulatory frameworks, and conducting extensive testing in simulated and real-world environments. Additionally, the project aims to address infrastructure compatibility, user acceptance, and ethical considerations while exploring commercial applications such as ride-hailing and logistics. Ultimately, the goal is to achieve safe, reliable, and efficient autonomous vehicles that can integrate seamlessly into existing transportation ecosystems.

# 2

## DESIGN AND DEVELOPMENT OF SUSTAINABLE SMART REACTOR FOR EFFECTIVE COMPOSTING



Grantee	: Dr. Balakrishnaraja
Funding agency	: MSME
Amount	: Rs. 2,25,000/-
Duration	: 1 Year
Date of Completion	: 20.12.2023

### *Scope of Sanctioned Funding:*

The comprehensive design and development of a sustainable smart reactor dedicated to optimizing the composting process. This innovative system will integrate advanced sensor technologies, automated control mechanisms, and environmentally friendly materials to enhance the efficiency and effectiveness of composting operations. The smart reactor aims to minimize environmental impact by promoting resource efficiency, reducing emissions, and ensuring the production of high-quality compost. The project encompasses the entire lifecycle of composting, from waste input to final product, and emphasizes sustainability, energy efficiency, and smart technology integration to create a model for eco-friendly waste management practices.



## Patent

S.No.	Patent Title	Name of the Applicant/Inventer	Patent Status
1	Wireless charging pad	Selvakumar M	Granted
2	Design of vermicompost separator	Chelladurai V, Vishwadhar R, Vetriharan M, Shavani Durga J, Kowsalya M, Thiyakaviknesh M	Granted
3	Image recognizing computer tab	Gomathi R	Granted
4	Smart mouse	Dhivya P, Sangavi N, Nataraj N, Dhivya Manohar C, Dhananjayan V	Granted
5	Flowability testing apparatus	Vasudevan M	Granted
6	Power bank charger device	Karthiga M	Granted
7	A Device for detection of epilepsy risks through a two stage fuzzy soft decision tree classifiers from eeg signals	Ganesh Babu C, Harikumar R, Kalaiyarasi M, Sannasi Chakravarthy S R	Granted
8	Wifi projector	Venkatesan R	Granted
9	High rate smart co-composter for mixed organic wastes	Vasudevan M, Balaganesh P, Rameswari R, Ranjith D, Hirthick Guhan E K, Gopala Krishnan V, Gnanadesigan R	Granted
10	Power generation using frustum shaped solar panel mounted on vertical wind turbine	Boopathi C	Granted
11	Battery pack cooling system	Sivaraman P, Chinnadurrai C L, Sundar S Srinivasan M, Sakthi Suriya Raj J S	Granted
12	Multi-purpose detangling device with liquid dispenser	Sathiyamurthi P	Granted
13	Novel antifungal nail polish and process thereof	Kamalraj D	Granted
14	Augmented reality glasses for skin cancer classification	Balasamy K	Granted
15	A method for measurement of environmental parameters using iot sensor for medical applications	Ganesh Babu C, Harikumar R, Sannasi Chakravarthy S R	Granted
16	Iot based collapsible metal detector apparatus	Sangeethaa S N, Jothimani S	Granted
17	Event driven anomaly detection system for crime mitigation	Ganagavalli K	Published
18	Detection of kidney stones using image processing and conventional neural networks	Kodieswari A	Published

S.No.	Patent Title	Name of the Applicant/Inventer	Patent Status
19	Design of vermicompost separator.	Chelladurai V, Vishwadhar R, Vetriharan M, Shavani Durga J, Kowsalya M, Thiyakaviknesh M	Published
20	Calibration of low-cost iot sensors in environmental monitoring networks via application of machine learning techniques	Baranidharan V	Published
21	Integration of machine learning and image processing techniques for forecasting lung cancer through classification algorithms	Arun Kumar R	Published
22	Analysing the role of machine learning for driving the future of autonomous vehicles	Mercy P	Published
23	Iot uses a machine learning approach built on block-sparse coding for accurate device-free localization	Baranidharan V	Published
24	Systems and methods for detection of anomalies in civil infrastructure using context aware semantic computer vision techniques	Vinothini V R	Published
25	Unveiling the potential: exploring novel plant-based protein sources for innovative plant-based products	Gowrishankar L	Published
26	A system and method for formal algebraic structure aspects and algorithms in cryptology	Somasundaram K	Published
27	Methods to prepare edible cup for hot beverage	Balakrishnaraja R	Published
28	Optimized algebraic protocols for enhanced encryption and decryption processes	Saranya D , Indirani C, Selvi S	Published
29	Design of flexible laptop stand	Mathankumar P , Amarkarthik A, Sivakumar K	Published
30	Pedagogies for real-world learning and innovation in higher education: a curriculum design approach	Thulasimani T	Published
31	Machine learning-based evaluation and enhancing critical thinking in academic institutions	Thulasimani T	Published
32	Hybrid organic-inorganic solar cells for sustainable energy production	Praveena R	Published
33	Analysis and study of mathematical object-based approaches used in machine learning, computer vision and artificial intelligence	Thulasimani T	Published



S.No.	Patent Title	Name of the Applicant/Inventer	Patent Status
34	Liquid carrying bottle for bicycle	Karuppusamy M	Published
35	The impact of artificial intelligence and machine learning on employee engagement and work practices in organisations	Thulasimani T	Published
36	Key factors in enhancing inventory control in manufacturing companies using machine learning	Thulasimani T	Published
37	R-CNN based face recognition for smart office automation system	Rajeshkumar G , Renuga Devi S	Published
38	A virtual learning system for the student by using deep learning technique	Saranya N	Published
39	A Scalable Fixed Point Algorithm For Simultaneous Numerical Integration And Differentiation In Non-linear Systems	Saranya D	Published
40	Iot enabled industrial vacuum cleaner device	Nandhakumar A	Filed
41	Intelligent colour sorting conveyor belt	Subharathna N, Dhinesh S K, Aruleswaran G, Ponvasanth G, Sibiraj S, Shrikanth S	Filed
42	Reslo RC BOT.	Nijandhan K	Filed
43	Automatic pickle dispenser bottle	Rajalashmi K, Parimala M, Rishwanth A P	Filed
44	Three jaw gripper	Selvamuthukumaran D, Selva, Sureshkumar M, Ramakrishnan A, Jaiprakash G, Karthikeyan E, Jithin Aanand A V, Gowrishangar I R	Filed
45	Next gen society through artificial intelligence block chain and iot based cloud applications security	Praveen V	Filed
46	Wireless charging pad	Selvakumar M	Filed
47	Method and system for depositing agins2 films via pulse plating: controlling structural, electrical, and optical properties through duty cycle modulation	Thirumoorthy M, Sadasivam K, Ashokan S, Vanitha K, Selvakumar K	Filed
48	Development of wireless charging station using stm32mp135f-dk and opengl	Rajasekar L, Manojkumar P, Gowri Shankar M, Sudhahar S, Ramkumar R, Pranesh R, Sabarish M, Srivishnu S, Priyadharshini V	Filed
49	Automatic fare collection in public transport	Tamilselvan S	Filed
50	Synthesis of iron and silver nanoparticles using polyherbs for fortifying millet biscuits	Subhapriya P, Tamilselvi S, Rameshkumar A, Monisa K, Nabeesa Fathima A, Suba Shree K, Vethashri M S	Filed



S.No.	Patent Title	Name of the Applicant/Inventer	Patent Status
51	Dynamic routing and traffic optimization mechanisms for network-on-chip architectures	Sathis Kumar K, Sathishkumar P, Janani T, Parthasarathi P	Filed
52	Hinged paver block mould	Geethamani R, Mohanraj A, Surenthiran M, Dharnesh T, Tamilselvan M, Sudarsanam S	Filed
53	Coconut maturity detection using yolov8 and deep learning	Ramasami S, Biju J	Filed
54	Smart wearable device for women safety	Saranya N, Kanthimathi N, Manojkumar P, Keerthana R, Aparna R, Shri Hari S	Filed
55	Calibration of low-cost iot sensors in environmental monitoring networks via application of machine learning techniques	Baranidharan V	Filed
56	Trapezoidal rebar shear connectors	Preetha V, Jeyanth B, Kavibharathi R S, P Thavakumaran, Guhan J, Sabarish V	Filed
57	Monkey pox virus detection system using pretrained deep learning	Nivetha G, Steephan Amalraj J, Nivetha G, Hakeema M A, Kamalavalli M, Bhuvaneshwari R, Padmapriya M	Filed
58	Integration of machine learning and image processing techniques for forecasting lung cancer through classification algorithms	Arun Kumar R	Filed
59	Health flush: the urinalysis toilet	Manojkumar P, Rajasekar L, Gowri Shankar M, Ramkumar R, Sudhahar S, Gowtham S, Mahima Pranavi R, Navaneet S V, Dharshna K	Filed
60	Flowability testing apparatus	Vasudevan M	Filed
61	Urban rentals: a comprehensive online platform	Venkatesan R, Vishwa B, Aswath C, Pranesh S	Filed
62	Athlete health monitoring system	Stephen Sagayaraj A, Elango S, Parthiban V, Ajay Pranav P R, Maveenkumar S, Hariharan S	Filed
63	Development of plastic bottle collection system and reward system using embedded system	Danielraj A, Rajasekar L, Gowrishankar M, Sudhahar S, Manojkumar P, Dhanushragav M, Lakshmi, Vimalram K C, Vikashini M	Filed
64	Low cost filler slab	Preetha V, Loganayagan S, Lakshmi Priya R, Srija Sanjay Jadhav S, Thrisha R, Sathiyaseelan R A	Filed
65	Event driven anomaly detection system for crime mitigation	Ganagavalli K	Filed
66	Pen stand	Sowmmiya S, Subrata Das, Jesun P K, Boomika R, Rashlini R	Filed
67	Aquaguard: advanced water quality monitoring	Dhinesh S K, Kaviraj A, Surendhar D, Saravanan A, Nandhini S	Filed



S.No.	Patent Title	Name of the Applicant/Inventer	Patent Status
68	Property management system	Tamilselvan S, Karthiga M, Kanthimathi N, Saranya N, Kalaivaani V, Tharikaa Srinithi A B, Prasath P	Filed
69	Analysing the role of machine learning for driving the future of autonomous vehicles	Mercy P	Filed
70	Parotta smashing machine 1	Dhinesh S K, Nagarajan P, Raghunath M, Sangaravadivel P, Sundar S, Senthil Kumar K L, Dhanushree N, Pugazharasu S, Tharunkumar S, Yugapranav V	Filed
71	Nlp based vocabulary pronunciation accuracy enhancement	Nithyapriya S, Arun M, Shangameshwar K, Gowtham S	Filed
72	Multi- styling garment	Saranya D V, Dharani A S, Jesun P K, Surubikaa P, Swetha G	Filed
73	Design and development of sustainable groundnut shredder	Velmurugan S, Raja Raja Solan N, Hari Krishnan B K, Sivaprasad G	Filed
74	Firewall integration with real-time monitoring and threat management system	Prabanand S C, Harisanth J, Abishek P, Kavinarasu E, Tharun D V	Filed
75	Mouse attachable holder	SwathyPriyadharsini P, Premalatha K, Barath P, Dhivyapakash B	Filed
76	lot uses a machine learning approach built on block-sparse coding for accurate device-free localization	Baranidharan V	Filed
77	Extraction of quercetin from onion peels and infusing into edible rusks.	Jeyavel Karthick P, Sashangan S, Santhika J, Gnana Asmi V, Elango K	Filed
78	Industrial helmet with welding shield	Muthukumar K	Filed
79	In-silico DFT studies and molecular docking evaluation of chlorpheniramine with its structural derivative	Malathi Mahalingam , Karuppusamy M, Muthukumar P, Murali Krishnan M, Shreenila N R	Filed
80	Development of wood products from coconut spathe and leaf petiole	Pradeep A D	Filed
81	Yolov7 based vegetable monitoring and pesticide control system	Chandru K S, Padmashree A, Sasikala D, Sathish S, Saranya N, Esakki Madura E, Sujith A, Nehaa Shree S A, Nivishna Shree S A, Poorani SD	Filed
82	Enhancing cybersecurity in leveraging machine learning models for detecting distributed dos attacks in agriculture 4.0	Sathishkumar P	Filed
83	A system and method for formal algebraic structure aspects and algorithms in cryptology	Somasundaram K	Filed
84	Shrinkage and void detection in concrete prism moulds	Karthiga Shenbagam N, Iniya Devi L, Danushnathan S S, Irfan Ahamed K, Mugilsundar V	Filed



S.No.	Patent Title	Name of the Applicant/Inventer	Patent Status
85	Void detection in concrete moulds.	Karthiga Shenbagam N, Ramakrishnaa V, Dhanush Kumar S, Dinesh A, Saran R	Filed
86	Methods and system development of earthen bricks and blocks without burning process by locally availability material	Jayaraman A	Filed
87	Optimized algebraic protocols for enhanced encryption and decryption processes	Saranya D, Indirani C, Selvi S, Saranya D	Filed
88	Green biosorbent from agave amica floral waste	Pavithra MKS, Bujita R K, Srikanth V M, Subhashini V J, Shwetharhini E	Filed
89	Development of a novel solarpowered electric vehicle	Uvaraja V C	Filed
90	Innovative powder dispenser	Tamilselvan S, Karthiga M, Ramesh R	Filed
91	Floor brooming bot1	Perarasi T, Poongodi C, Deepa D, Sampooram K P, Leeban Moses M	Filed
92	Defend rover	Karthikeyan S, Leeban Moses M	Filed
93	Lawn clipping bag	Karthikeyan S, Leeban Moses M	Filed
94	Pocket electronic tester	Leeban Moses M, Karthikeyan S	Filed
95	Parkinson's disease progression prediction mechanism	Pandiyan M, Jeeva Nila A, Ajaygandhi V	Filed
96	Multi-utility pen stand	Mathankumar P, Jegadheeswaran S	Filed
97	Audio guidance system for visually impaired people and tourists	Pravin Savaridass M, Haritha J, Balamurugan V T, Arun Chendhuran R, Pachamuthu P, Jeyabalan K, Guru Keerthana S R, Gokul S, Dharanya M	Filed
98	Synthesis and characterization of novel bioceramic wollastonite scaffolds from vegetable waste	Vaidhyanathan B, Shanmuga Sundari I, Karthikeyan P, Dhivagar N, Nivethitha M	Filed
99	Development of pcr device usingstm32mp135f-dk and opengl	Ramkumar R, Manojkumar P, Gowri Shankar M, Rajasekar L, Sudhahar S, Ramkumar R, Tharanyaa S, Sashithra K, Saranya A, Varshini T M	Filed
100	Automatic can water dispenser	Vairavel K S	Filed
101	Machine learning-based evaluation and enhancing critical thinking in academic institutions	Thulasimani T	Filed
102	An automated biogas system with web based visualization for real time monitoring	Mythili S, Viswanathan G, Sathish V, Vinoth Kumar J, Pousia S, Gayathri R	Filed
103	Biochar based intelligent filtering system for textile effluent treatment	Balaji S, Eswara G R, Mahalakshmi M	Filed



S.No.	Patent Title	Name of the Applicant/Inventer	Patent Status
104	Preparation of herbal cream for accelerating burn wound healing	Balaji S, Abinaya S, Lathika P, Monishha S	Filed
105	Detection of sleep paralysis using cnn and lstm	Padmashree A, Sasikala D, Swathi S, Meganamani T, Sarankumar K, Dhil Rohith B	Filed
106	Analysis of managing human resource management stress in project based organisation	Saravana Moorthi P	Filed

## PUBLICATION - WEB OF SCIENCE

S.No.	Author(s)	Article Title	Journal Name
1	Bharathi A, L Malathi and N Jayanthi	FPGA Design of FFT Based Intelligent Accelerator With Optimized Wallace Tree Multiplier for Image Super Resolution and Quality Enhancement	Biomedical Signal Processing and Control
2	Premalatha K, G Sathish Kumar G and Uma Maheshwari	No More Privacy Concern: A Privacy-Chain Based Homomorphic Encryption Scheme and Statistical Method for Privacy Preservation of User's Private and Sensitive Data	Expert Systems with Applications
3	Dhivya P, M Murugesan and Sathish Kumar G	Multi-Modal Emotion Recognition Through Adaptive Normalization Fusion With Alpha Gaussian Dropout in MCNN Architecture	Signal Image and Video Processing
4	Sadasivam K, Shilpa D and Thirumoorthy M	Topology analysis of Six Phytochemicals Through ELF and LOL Basins – A Dft Study	Indian Journal of Chemistry
5	Ramesh Kumar T, and Baskaran S	Innovative Design of Earth Auguring Field Mobile Robot for Productive Farming	Journal of Current Research Engineering and Science
6	Subramaniyan C, Arivazhagan and Sampathkumar	Optimal Utilisation of Low-Grade Solar-Air Source for Heat Pump Water Heating Using a Dual-Source Evaporator With forced Convection	International Communications in Heat and Mass Transfer
7	Rajiev R, Jeeva Jothi and Kumaravel	Hydrothermal Fabrication of Two-Dimensional indium Oxide Nanosheets for High-Performance Supercapacitors	Materials Letters



S.No.	Author(s)	Article Title	Journal Name
8	Prakash K B, and Manoj Kuamr P	Assimilation of a Novel thermal Collector and Phase Change Material in Photovoltaic / thermal System - An Energy and Exergy Based Comparative Study	Journal of Energy Storage
9	Balakrishnaraja, R, S Abdullah Lekhashri and Vijayan Veerapandi L	Optimization of Microwave-Assisted Extraction of Tamarindus Indica Seed Oil: An in Silico Approach to Development of Potential Hypolipidemic Compound for Reducing LDL Cholesterol	Measurement: Food
10	Malathi Mahalingam, K Kaavin, D Naresh, Yogeshkumar, M Krishna Prakash, S Janarthanan and M Murali Krishnan	IN-Silico DFT Studies and Molecular Docking Evaluation of Benzimidazo Methoxy Quinoline-2-one Ligand and Its CO, NI, CU and ZN Complexes As Potential inhibitors of BCL-2, Caspase-3, EGFR, Mtor, and PIK3k, Cancer-Causing Proteins	Chemical Physics Impact
11	Parimala M, Karthikeyan Prakash, Ashraf Al Quran, Muhammad Riaz and Saeid Jafar	Optimization Algorithms of PERT/CPM Network Diagrams in Linear Diophantine Fuzzy Environment	CMES-Computer Modeling in Engineering & Sciences
12	Subramaniyan C, Prakash K B, Kalidasan B, Sampathkumar and Arivazhagan	Solar-Air Source Heat Pump Water Heater for Scorching Climatic Condition: Energy, Exergy, Economic and Enviro Economic (4E) Exploration for Sustainable Future	Engineering Applied Thermal
13	Vijayakumar V N, Sahaya Jude Dhas, Martin Britto, Sathiyadhas, Amalapushpam and Vasanthi Thangavel	Experimental Evidence on the Sustainability of Crystallographic and Chiral Symmetry of L-Alanine Under Dynamic Shocked Conditions	Journal of Molecular Structure

S.No.	Author(s)	Article Title	Journal Name
14	Vijayanand P S, P S Devanand, B Sivakumar, K Sivakumar, N Raja, K Hemaprabha, K B Sujatha, K Nelson and Navamani Raj	Chemical Characterization of Spathodea Campanulata for Natural Dye	AATCC Review
15	Pavithra Mks, M Kamaraj, P Suresh Babu, S Shyamalagowri and J Aravind	B-Cyclodextrin Polymer Composites for the Removal of Pharmaceutical Substances, Endocrine Disruptor Chemicals, and Dyes From Aqueous Solution[1]A Review of Recent Trends	Journal of Environmental Management
16	Ashokan S, J Jesbin Jebarshia, N Geetha and K Senethil	Co-Doped Polyaniline Composites for Biological Application: Morphological, Functional, Optical and Antibacterial Activities	Inorganic Chemistry Communications
17	Chandrasekaran M, Prakash K, Babu, Amarkarthik Arunachalam and Subramaniyan Chinnasamy	Energy Based Techno - Economic and Environmental Feasibility Study on PV/T and PV/T Heat Pump System With Phase Change Material—A Numerical Comparative Study	Environmental V Science and Pollution Research
18	Balakrishnaraja R and Dinkar B Kamble	Influence of Extraction Techniques on Biologically Enriched Raw Soursop Fruit and Comparative Evaluation By Response Surface Methodology and Artificial Neural Network	Food and Humanity
19	Srinivasan M, N R Nagarajan, K V Karthikeyan and Nalini Neelamegam	Optimizing Chemical Sensing Performance: A New Terahertz Waveguide Plasmonic Sensor With Hybrid Refractive index integration	Plasmonics
20	Rajiev R, S M Vinu Kumar and Harwinder Singh	Multi-Response Optimization of Wear Parameters of Flax	Indian Journal of Fibre & Textile Research



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		Reinforced Epoxy Composites Using Taguchi-GRA-PCA Approach	
21	Vijayanand P S, A Jeeva, S Ashokan and Seiichi Suzuki	Surface and Structural Modification of Hcl-Doped Poly(MT-CO-3-BA) Copolymer and the Feasibility Study of Humidity Sensor	Polymer-Plastics Technology and Materials
22	Bharathi A and Saranya D	Automatic Detection of Epileptic Seizure Using Machine Learning-Based lanfis-Lightgbm System	Journal of Intelligent & Fuzzy Systems
23	Pongali Sathya Prabu N and G Chandrasekar	Formation and Investigation of Hydrogen Bond Liquid Crystal Binary Mixtures for Optical and thermal Energy Applications	Ferroelectrics
24	Mekala R and Mohanraj E	Optimized Neural Attention Mechanism for Aspect-Based Sentiment analysis Framework With Optimal Polarity-Based Weighted Features	Knowledge and Information Systems
25	Pushpavalli M, Mamatha Yasodha Devi, Blessline Sheeba, Gurunath and Shubhi Kansal	Energy Efficient and intelligent Routing Algorithm Using Dai and Self Organizing Map Hybrid Algorithm for Future Optical Wireless Communication	Optical and Quantum Electronics
26	Dhanasekar R and S Vijayachitra	Modeling and Control of Non-Linear Csth Process Using Hybrid Optimized Technique	Journal of Scientific & Industrial Research
27	Madheswaran S, and Sivakumar Karuppan	Mechanical Properties of Sandwich Products Obtained By 3D Printing From PLA-PLA/AL2 O3	Polimery

S.No.	Author(s)	Article Title	Journal Name
28	Rajalashmi K, V Hemachandira and A Sheela	Single Source Switched Capacitor Based Multilevel Inverter With Reduced Number of Components	Journal of Electrical Systems
29	Gowrishankar L, T N A Aruna Sree, P Poojitha, R G Sneha, S Srimathi, R P Sushmitha, J H Divya and R Harini	Exploring the Potential of Eichhornia Crassipes in Slaughterhouse Wastewater Treatment	Biochemical and Cellular Archives
30	Pushpavalli M, Vibhathiari Ananthakumaran, Rajanishree, Thangamani and Watibula	Data analysis Algorithm for internet of Things Based on Federated Learning With Optical Technology	Optical and Quantum Electronics
31	Goldvin Sugirtha Dhas B and Deepa S N	Solar PV System With Modified Artificial Rabbit Optimization Algorithm for MPPT	Electrical Engineering
32	Murali Krishnan M, Kuppusamy Murugavel and Moorthiraman Murugan	Formulation of Ensulizole With Beta - Cyclodextrins for Improved Sunscreen Activity and Biocompatibility	Journal of Pharmaceutical Sciences
33	Kumaresan G, Rajendran Manikandan, Thimmarayan Raja, Kengaiah, Vijaya Raja, Gopi Suresh, Rajasekharan, Vezhavendan Raju and Ganesamoorthy	Combustion Performance and Emission Characteristics of Aloe vera Diesel-Emulsified Fuel in a Diesel Engine	Environmental Science and Pollution Research
34	Vijayakumar V N, Sahaya Jude Dhas, Martin Britto, Dhas Sathiyadhas, Amalapushpam and Vasanthi Thangavel	Unveiling the Correlation Between the Structure and Property of the Amorphous State of Hydrated Nickel Sulfate ( $\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$ ) induced By Acoustic Shock Waves – An X-Ray Diffraction, thermal Calorimetric and Dielectric Spectroscopic Approach	Materials Science and Engineering B-Advanced Functional Solid-State Materials



S.No.	Author(s)	Article Title	Journal Name
35	Sangeethaa S N, P Meenakshi Devi, Gnanavel Sakkaravarthi K and E Narayana	Novel Methods for Diagnosing Glaucoma: Segmenting Optic Discs and Cups Using Ensemble Learning Algorithms and CDR Ratio analysis	Iete Journal of Research
36	Nandhini K M, Kumar C and Premkumar M	Leveraging Opposition-Based Learning for Solar Photovoltaic Model Parameter Estimation With Exponential Distribution Optimization Algorithm	Scientific Reports
37	Gopi G, P Aravinthkumar and G Anandha Babu	Investigation on Structural, Dielectric, Ferroelectric, and Piezoelectric Properties of (1-X)PBTIO <sub>3</sub> -(X)Bi(ZN <sub>2</sub> /3NB <sub>1</sub> /3)O <sub>3</sub> Solid Solutions	Journal of Materials Science-Materials in Electronics
38	Arulmani S, Davamani V, John, J E Poornachandhra, C Gopalakrishnan and B Parameswari	A Critical Review of Climate Change Impacts on Groundwater Resources: A Focus on the Current Status, Future Possibilities, and Role of Simulation Models	Atmosphere
39	Harikumar R, and S R Sannasi Chakravarthy	Classification of Wisconsin Breast Cancer Data With Extreme Learning Machine and Osprey Optimization Algorithm	Bioengineering-Basel
40	Leeban Moses M, and Shoukath Ali	Joint Delay and Energy Aware Dragonfly Optimization-Based Uplink Resource Allocation Scheme for LTE - A Networks in a Cross-Layer Environment	international Journal of Engineering
41	Sadasivam K, Sivaranjani G and Vanitha K	theoretical investigation on interacting Zones of Certain Flavones	Indian Journal of Chemistry

S.No.	Author(s)	Article Title	Journal Name
42	Raja Sekar S, Vijaykumar V R, Jothin R, Diniesh V C and Ramakrishnan S	Novel LightWeight Hardware Authentication Protocol for Resource Constrained IOT Based Devices	IEEE Journal of Radio Frequency Identification
43	Anandha Moorthy A, Sivakumar Karuppan, Madheswaran Subramaniyan and Balaji Ayyanar Chinnappan	Effect of Different Fillers on Mechanical Properties of Fdm- Printed Layered Pla Parts	Polimery
44	Vasudevan M, S Syed Masoodhu, Natarajan and Narayanan	Modification of Bentonite With Black Cotton Soil and Carboxymethyl Cellulose for the Enhancement of Hydraulic Performance of Geosynthetic Clay Liners	Water Science and Technology
45	Sannasi Chakravarthy S R, Bharanidharan, Nagarajan V, Vinoth Kumar T, R Mahesh and R Sivakami	Breast Tumor Classification With Enhanced Transfer Learning Features and Selection Using Chaotic Map- Based Optimization	International Journal of Computational Intelligence Systems
46	Selvi S, R Selvamani and L Anitha	Nonlocal and Couple Stress Effects on thermal Vibration of a Layered anisotropic Dissipative Plate	Mechanics of Solids
47	Praveena R, Thejesh Kumar M, P Sanghamitra Satapathy, Malathi, Batchu Suseela, R Ponnudurai, K Chinchulkar, Gayatri and Tiwari Richa	Studies on anti leucoderma Properties of Bark of Dalbergia Sissoo ROXB	International Journal of Zoological investigations
48	Selvamuthukumaran D, Rajendran C R, B Manoram and V Amarnath	Mathematical Modeling, Optimization and Prediction of Friction Stir Spot Design and Welding Parameters for Dissimilar Joining AA2024-T6 Aluminium and AZ31B Magnesium Alloy in Lap Weld Configuration	International Journal of Interactive Manufacturing - IJIDEM



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49	Biju J and D Shanthi	Performance analysis of Diabetic Retinopathy and Hemorrhages Segmentation System Using hanced Visual Geometry Group (EVGG) Architecture	Journal of Electrical Engineering & Technology
50	Pongali Sathya Prabu N and Balaji R	Detailed investigations on Hydrogen Bond Liquid Crystals formed Between 4-Nitrobenzaldehyde and Alkyloxy Benzoic Acids	Ferroelectrics
51	Subhapriya P, Mohamed Kasim Sheit Musthafa Kani M Anwer Sathiq S S Syed Abuthahir K S Nivedhita M and A Umar Farooq	Experimental Studies on the Effect of Expired Amiodarone Drug (EAD) as a Corrosion inhibitor on Mild Steel in 1 M HCL	Materials
52	Uvaraja V C, Ramesh G and G Gokilakrishnan	Mechanical, Wear, and Flammability of Chitin-Rich Endoskeleton of Sepioteuthis Sepioidea Powder-Dispersed Pineapple Fiber-Reinforced Polyester Composite	Biomass Conversion and Biorefinery
53	Vanitha K, L Gunganathan, R Ramasamy, K Sathishkumar and S Ragupathy	Critical Assessment of a Ce-Doped SNo2 Loaded on PPSAC Composite hotocatalyst on Improved Photocatalytic Activity Under Visible Light	Ionics
54	Kavitha C, Gupta Anjali, Shinde Manoj, Gangadhar Kolhar Sana R, Sharma Reena Ponnudurai K, Bhambar Kunal V and Venkatachalam Prabakaran	Evaluation of antidepressant Activity of Various Extract of Celosia Cristata Fruits and Leaves By Using forced Swim Test	International Journal of Zoological investigations
55	Kirupa Sankar M, Vimal Arasan A and Vidhya K	Comparative Assessment of Pre-Treatment Techniques and Process Economics on Marine	Biofuels-UK

S.No.	Author(s)	Article Title	Journal Name
		Seaweed, Gelidium Pusillum, for Enhanced Bioethanol Production	
56	Sasikumar C, Jeyakumar R, Vinu Kumar S and Rishi J P	Mechanical and Viscoelastic Properties of Nanoclay Filled Bamboo/Glass Fibre Reinforced Unsaturated Polyester Hybrid Composites	Materials Research-Ibero-America n Journal of Materials
57	Abirami A, R L Priya, Vaishali Hirlekar and Bhargavi Dalal	Proactive analysis and Detection of Cyber-Attacks Using Deep Learning Techniques	Indian Journal of Science and Technology
58	Thirumurugan V, T Sathish Kumar, Ramesh Kumar and Prakash Raja	Thermal Comfort Properties of Silk Knitted Denim Fabrics	Indian Journal of Fibre & Textile Research
59	Subhapriya P, Gopalakannan, Venkatrajan Janarthanan, Venkatesan Natarajan and Madankumar Nirmala	Effective Chromium Removal of Metal anchored Alginate-Chitosan Binary Bio-Composites	International Journal of Biological Macromolecules
60	Gayathri S, and D Surendran	Unified Ensemble Federated Learning With Cloud Computing online anomaly Detection in Energy Efficient Wireless Sensor Network	Journal of Cloud Computing-Advances Systems and Applications
61	Praveena R, Balakrishna, Vuyyala Yadav, Nagarjuna B, V Waghmare Aditya Suhas, Gharat Vedant, Rajendra Gaikwad, Mansi Dipak Gupta, Shiv Kumar and Shinde Manoj Gangadhar	Aqueous Flower Extract of Mangifera Indica: An Investigation into Its in Vitro Anti-Diabetic Effects	International Journal of Zoological Investigations
62	Parimala M, and Saeid Jafari	Spherical Linear Diophantine Fuzzy Graphs: Unleashing the Power of Fuzzy Logic for Uncertainty Modeling and Real-World Applications	Axioms



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63	Gowthami S, M Shanmukhi and Gouse Baig Mohammad	Registration Based Fully Optimized Melanoma Detection Using Deep forest Technique	Biomedical Signal Processing and Control
64	Selvakumar K, Kathirvel R, Poongodi M, Vetriarasu V, Vivekanandan K, E Arivalagan Pugazhendhi and Geetha Venkatesan	Quinoline-Quinoline Schiff-Base As an Effective Chromogenic, Fluorogenic, and Smartphone Assisted RGD Detection of Pb <sup>2+</sup> ION in Near Aqueous Medium	Environmental Research
65	Jegadheeswaran S, Sathish D, Murugan, Veeramanikandan Raja and Thirunavukkarasu	Temperature and Salt Concentration Behavior of a Compact Rectangular Salinity Gradient Solar Pond	Journal of Thermal Engineering
66	Sri Vinitha V, Karthika and Renuka D	Diverse Ensemble Classifier Driven Email Spam Classification Using Multiple Word Embeddings With Cocob Optimizer	Journal of intelligent & Fuzzy Systems
67	Naveena S, Vigneshkumar M, Sanjay R, Pawar M, Amutha Balu S and Priya V	Ai-Driven Material Design for Tissue Engineering a Comprehensive Approach Generative Adversarial Networks and High-Throughput Experimentation Integrating	The Scientific Temper
68	Mathankumar P, K P Srinivasa Perumal, L Selvarajan and Shailesh Shriguppikar	Enhancing Mechanical and Morphological Properties of Glass Fiber Reinforced Epoxy Polymer Composites Through Rutile Nanoparticle incorporation	Progress in Additive Manufacturing
69	Premalatha K, G Sathishkumar, G Uma Maheswari, G Vijaya and M Nivaashini	Differential Privacy Scheme Using Laplace Mechanism and Statistical Method Computation in Deep Neural Network for Privacy Preservation	Engineering Applications of Artificial intelligence

S.No.	Author(s)	Article Title	Journal Name
70	Prakash K B, S D Anitha Selvasofia, S Deepa Shrib and P Manoj Kumar	Characterization of Bio-Nano Doped Phase Change Material (BIO-NANO/PCM) for Building Energy Management	Energy Sources Part A-Recovery Utilization and Environmental Effects
71	Gomathi R, Logeswari S, M D Kumar, Manjula Prabakaran, Neerav Nishant and Syed Ahmed	Machine Learning Classifiers to Predict the Quality of Semantic Web Queries	The Scientific Temper
72	Selvakumar K, Elavarasan Bharathi, Chinnaiyan Rajeevgandhi, Ponnusamy Sasikumar, Loganathan, Guganathan Sambantham and Senthilvelan	Application of Natural Solar Photocatalytic and DSSC's Studies AC Loaded on AG-IN2O3 Nanoparticles By Hydrothermal Approach	Heliyon
73	Vinothini V R, Sakthisudhan K and Ezhilazhagan C	Design of Miniaturized MRI Coils for MRI-Guided Tumor Diagnosis and Hyperthermia Therapy	Microwave and Optical Technology Letters
74	Mathankumar P and L Selvarajan	AEDM Machining Effectiveness for TI-6AL-4V Alloy Using CU-TIB2 Ceramic Composite Electrode: A Parametric Evaluation	Ceramics international
75	Gomathi R, Sanjay R, Pawar Ayesha Siddiqua M, Dhanalakshmi and Ravi Rastogi	Ensuring Ethical integrity and Bias Reduction in Machine Learning Models	The Scientific Temper
76	Kumaresan G, Paneerselvam Natarajan, Sekar, Tamilperuvalathan, Vijayakumar and Murugesan	An Enhanced Technique for Friction Stir Welding of Ceramic Particle Reinforced Aluminium Based Metal Matrix Composites	Lubrication Science
77	Gopal R, Sachin V, Chaudhari Jayamangala, Sristi M, Amutha V, Akshaya and Vijayalakshmi P	Optimizing Biocompatible Materials for Personalized Medical Implants Using	The Scientific Temper



S.No.	Author(s)	Article Title	Journal Name
		Reinforcement Learning and Bayesian Strategies	
78	Nagarajan P, and Senthil Kumar Kallippatti Lakshmanan	Influence of Substrate Material and Sensor Geometry Variations on the Performance of Fused Deposition Modeling - Printed Strain Sensors	3D Printing and Additive Manufacturing
79	Kumaresan G, Nandakumar Eswaramoorthy, Sathish Rajendran, Senthilkumar Nallasamy, Marimuthu Rangasamy and Yogapriya Selvaraju	Influence of ZNO/MWCNTS Based Hybrid Electrodes for Boosting the Performance of Photovoltaic and Supercapacitor Devices	Materials Chemistry and Physics
80	Muthukumar P, S Denisdon, S Claretraja, K Ganesan, M Amalraj and A John Jeevagan	Synthesis of Peripheral Thiol Functionalized (NI II) Phthalocyanine and Its Attachment on Au Electrode for Electrochemical Determination of L-Dopa	Chemical Physics Impact
81	Harikumar R, Karthika M S and Ajin R Nair	Enhancement of Classifier Performance With Adam and Ran Adam Hyper-Parameter Tuning for Lung Cancer Detection From Microarray Data in Pursuit of Precision	Bioengineering - Basel
82	Dinesh D, S Saravanakumar and P Manoj Kumar	Optimizing Friction Stir Processing Parameters for Aluminium Alloy 2024 Reinforced With Sic Particles: A Taguchi Approach of Investigation	Journal of Materials Research and Technology - JMR & T
83	Deepha V, Tripathi, Arpan Kumar, Sudha M, Kareemulla Shaik, Gadewar Manoj M and Chandra Shekhara Rao G	Ethnopharmacology and Cancer: Bridging Traditional Healing Practice With Modern Pharmacognosy	International Journal of Zoological Investigations

S.No.	Author(s)	Article Title	Journal Name
84	Prakash K B, Sambath Yaknesh, Natarajan, Rajamurugu and Saravanakumar Subramaniyan	A Technical Perspective on Integrating Artificial Intelligence to Solid-State Welding	International Journal of Advanced Manufacturing Technology
85	Vijayakumar V N, S Sahaya Jude Dhas and Vasanthi Tangavel	Acoustic Shock Wave-Induced Amorphous to Crystalline Phase Transitions of $\text{Li}_2\text{SO}_4$ Raman Spectroscopic and Thermal Calorimetric Approach	Journal of Physical Chemistry A
86	Rohini P, Franklin Ebenazer, Selva Kumar, Ramasamy N, Sampathkumar, Geetha Venkatesan and A Anderson	Carboethoxy Quinoline-Derived Schiff Base Chemosensor: Crystal Structure, Selective $\text{Hg}^{2+}$ Ion Detection and it's Computational Study	Environmental Research
87	Vijayakumar V N, S Sahaya Jude Dhas and Vasanthi Thangavel	Acoustic Shock Wave Processing on Amorphous Carbon Quantum Dots – Correlation Between Spectroscopic-Morphological –Magnetic and Electrical Conductivity Properties	Ceramics International
88	Ashwin Raj S, Bindhu, Jayaprakash Rekha, Thiruvengadam, Naiyf S Alharbi Shine, Kadaikunnan, Sathianarayanan, Sankaran Muthu, Thiruvengadam and Rethinam Senthil	Evaluation of Oyster Mushroom ( <i>Pleurotus Ostreatus</i> ) - Derived Anthraquinone on the Induction of Apoptosis and Suppression of MMP-2 and MMP-9 Expression in Breast Cancer Cells	International Journal of Medical Sciences
89	Arulmurugan L, Venkatesh Kumar P, Rajheshwari K and Karthik K	Blockchain-Driven Demand Response System for Resilient and Sustainable Microgrids integrating Wind Energy Conversion Systems	Electric Power Components and Systems



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90	Sannasi Chakravarthy S R, N Bharanidharan, V Vinoth Kumar and T R Mahesh	Deep Transfer Learning With Fuzzy Ensemble Approach for the Early Detection of Breast Cancer	BMC Medical Imaging
91	Sannasi Chakravarthy S R, N Bharanidharan, Vinoth Kumar, Venkatesan T, R Mahesh and E Mohan	Local Entropy Based Remora Optimization and Sparse Autoencoders for Cancer Diagnosis Through Microarray Gene Expression analysis	IEEE Access
92	Rajasekar S S and Balamurugan	Goldenfish Sentinel Feature Selection With SBM Classifier for Automatic Seizure Detection From Eeg Data	Biomedical Signal Processing and Control
93	Balakrishnaraja R, and Ramalakshmi K	Effect of Drying on insulin Plant Leaves for Its Sustainability and Modeling the Drying Kinetics By Mathematical Models and Artificial Neural Network	Environmental Modeling & Assessment
94	Dinesh D, and Rajasekar R	Experimental investigation of Date Seed and Neem Powder Reinforced Natural Fiber Composites	Materials Science-Medziagotyra
95	Kalaiyarasi M and Hari Kumar R	Framework for Performance Enhancement of Classifiers in Detection of Prostate Cancer From Microarray Gene	Heliyon
96	Premalatha K, and K Seethappan	Impact of Oxymoron Features and Deep Learning Techniques in the Detection of Sarcastic Contents	Journal of Intelligent & Fuzzy Systems

S.No.	Author(s)	Article Title	Journal Name
97	Ganagavalli K and V Santhi	Yolo-Based anomaly Activity Detection System for Human Behavior Analysis and Crime Mitigation	Signal Image and Video Processing
98	Pongali Sathya Prabu N, and G Chandrasekar	Differential Scanning Calorimetric investigations of Binaries formed Between thermotropic Liquid Crystals	Journal of Thermal Analysis and Calorimetry
99	Murugan K, Bagath Basha, Suresh Srenganachiyar and Athimoolam Kanmani Pappa	Enhancing Healthcare Data Security Using Quantum Cryptography for Efficient and Robust Encryption	Journal of Electrical Systems
100	Ramya R, Ramesh C, Murugesan P, Nithya N and Sathish Kumar G	Enhancing Parkinson's Disease Prediction Using Deep Learning-Based Convolutional Neural Networks	Journal of Electrical Systems
101	Maheswari K T, N Karthikeyan and K A Vijayalakshmi	Consequence of Cold Plasma on the Amorphous and Crystalline Nano Silica Extracted From Rice Husks Apt in Metal Air Battery	Silicon
102	Anandha Babu G, Kiruthika, Parangusan, Venkat Subramaniam, P Sundara Venkatesh and S Vijayalakshmi	Biocompatible Neem Gum-Modified Polyvinyl Alcohol Composite As Dielectric Material for Flexible Energy Devices	Heliyon
103	Kumaresan G, Marimuthu Rengasamy, Nandhakumar Eswaramoorthy, Arulmurugan Gunasekaran, Gunasekar N, Shashikumar S, Sreekanth M S and Rajaram Kamatchi	Optimization of 3D Printed Solar Evaporators for Enhanced interfacial Solar Steam Generation and Beyond; Investigating Surface Modifications and Nanocomposite Coatings	Materials Today Sustainability
104	Sivabalakrishnan R, Senthil Kumar A P and Janaki S	Implementation of Hand - Object Pose Estimation Using SSD and YOLOV5 Model for Object Grasping By Scara Robot	Journal of Field Robotics



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105	Sathish V, S Gurusamy, M Sankarganesh and A Mathavan	Fluorescence Chemosensor for anion Recognition, Solvatochromism and Protein Binding Studies Based on SchiffBase Derivative	Journal of Molecular Structure
106	Subramaniyan C and R Divyabharathi	Recent Advances in Sustainable Agro Residue Utilization, Barriers and Remediation for Environmental Management: Present insights and Future Challenges	Industrial Crops and Products
107	Mathankumar P, L Selvarajan, K Venkataramanan, S Kannan, Senthilkumar, K P Srinivasa Perumal, N L Parthasarathi and N Kasthuri	Surface Morphology of Silicon Nitride (Si <sub>3</sub> N <sub>4</sub> ) - Titanium Nitride (TiN) Composites Using GRA-RSM Strategy Encompassed With EDMED Parameters	Ceramics International
108	Rajeshkumar G, K Anusha, P Ajay, M Ramesh, N Muthukumaran, C Rajeshkumar, K Sangeetha and A Ahilan	HOEEACR: Hybrid Optimized Energy-Efficient Adaptive Clustered Routing for WSN	IETE Journal of Research

## PUBLICATION - SCOPUS

S.No.	Author(s)	Article Title	Journal Name
1	Subrata Das, and Arunava Das	Finishing of Cotton Fabrics With Citrus Sinensis Extract	Asian Dyer
2	Krishnaraj R, Divya S and Sanjoy Deb	Baby Language Detection Using Deep Learning	Indian Journal of Engineering Science and Technology
3	Leeban Moses M, K Rajkumar and Shoukath Ali K	Deep Reinforcement-Based Q-Learning Approach for Improving Energy Efficiency and Resource Management in V2x Communication Networks	International Conference on Smart Technologies, Communication and Robotics
4	Harikumar R, and Karthikamani R	Classification of Liver Abnormality in Ultrasonic Images Using Hilbert Transform Based Feature	IFMBE Proceedings
5	Chelladurai V, Ravikanth Lankapalli, D S Jayas and D Praveen Kumar	Machine Learning Techniques to Identify Hidden Cowpea Beetle infestation in Green Gram Using Nir Hyperspectral Imaging Data	Indian Journal of Engineering Science and Technology
6	Oorappan G M, Lakshmanan S, A Rajpurohit Bharat Singh and Devanathan B	Modelling and Analysis of Tri State Boost Converter for Solar PV Applications	International Conference on Emerging Frontiers in Electrical and Electronic Technologies
7	Arulmurugan L, Manjunathan Alagarsamy, Neera Chaudhary, Nithyadevi Shanmugam, Kannadhasan Suriyan and Raja Manikanda	Performance Improvement of Fuel Cell and Photovoltaic System	Bulletin of Electrical Engineering and Informatics
8	Ganesh Babu C, and Rangeetha S	Analysis of 6T Static Random Access Memory Using CMOS Technology With 22NM Standard	International Conference on Smart Technologies, Communication and Robotics
9	Sundar S, and Suresh M	Women Safety Device Using Raspberry PI	Indian Journal of Engineering Science and Technology



10	Gomathi R, Logeswari S, Arul Sangeetha and Lathajothi	Mefnet-Micro Expression Fusion Network Based on Micro-Attention Mechanism and 3D-CNN Fusion Algorithms	International Journal of Intelligent Engineering and System
11	Senthil Kumar N, M Sathiya, R Sampath Kumar, V Manimegalai Samuel, Augustina Lata Jeyaraj and B Girmurugan	B2B Digital Marketing Perspective to Study the Ethical Principles of Organization Behaviour in india	International Journal of Intelligent Systems and Applications in Engineering
12	Vishnu Sajan	Contemporary Marketing Dynamics: Social Media influencer Impact on Consumers	Journal of Research Administration
13	Subrata Das, Priya R, Sanjana N and Shivai B	Molecular Characterization and Application Casia Auriculata Extract on Cotton Fabrics	Asian Dyer
14	Sritha P, and R S Valarmathi	A Secure Double MAC Implementation of STBC Based FECG Monitoring	Journal of Intelligent and Fuzzy Systems
15	Kalaiyarasi M, Harikumar Rajaguru, B Santhosh and A Senthamil Selvi	Detection of Respiratory Disorder and Performance Analysis from PPG Signals	IFMBE Proceedings
16	Gomathi R, Pushpa B, C N Harshavardhana, P Siva Kota Reddy, Adhithya Kumar and Singh Pundir	Integrating Deep Learning and Graph Neural Networks for Multimodal Lung Tumor Analysis: A Novel Approach for Improved Classification and Predict	International Journal of Intelligent Engineering and Systems
17	Thulasimani T, M Velammal, Vittam Rakesh, K Kartheeban and G Shyamala	Intelligent IOT-Based Water Quality Monitoring System Using TD-CNN-LSTM Approach	International Conference on Self Sustainable Artificial Intelligence Systems
18	Sandhiyadevi P, and Subharathna N	Reducing Papr in OFDM System Using Modified Iterative Algorithm in Partial Transmit Sequence Method	International Conference on Sustainable Communication Networks and Application
19	Sannasi Chakravarthy S R, Bharanidharan N, Vinoth Kumar Venkatesan and Mahesh T R	Prediction of Water Quality Using Softmax-Elm Optimized Using Adaptive Crow-Search Algorithm	IEEE Access

20	Somasundaram K, and Karthikeyan A	Secure Key Refurbishing Using Queue Batch Algorithms in Multicast Group Communication	Journal of Chemical Health Risks
21	Prakash K B, Rajamurugu Natarajan, Yaknesh Sambath, Manzoore Elahi and M Soudagar	Effect of Plate Length on Drag Reduction of Square Faced Bluff	E3S Web of Conferences
22	Nagarajan P, Satyam D, Damodaram N and Ashok Kumar	Agra: An Efficient Ant Colony Grid Based Routing Algorithm for Mobile Ad Hoc Networks	Global Conference for Advancement in Technology
23	Rajasekar S S, R. Ramani, D Rajendra Prasad, C H Mohan Sai Kumar, T Karthikeyan and Shruti Bhargava Choubey	Enhanced WSN Cloud Security Based on Double Linked Hash Blockchain Security Using Prime Padding Rivest Cipher Key Policy	Journal of Advanced Research in Applied Sciences and Engineering Technology
24	Balasamy K, Suganyadevi Sellappan, Shiny Pershiya Anand, Finney Daniel Shadrach, Renu Karra and	A Survey of Alzheimer's Disease Diagnosis Using Deep Learning Approaches	Journal of Autonomous Intelligence
25	Suganya Devi C R, Sowmeeya S R, Vidhya S and Jayapriyanka K	Impacts on Digital Payment System After the Outbreak of Covid-19	Tuija Jishu/Journal of Propulsion Technology
26	Suganya Devi C R, Vidhya S, Sowmeeya S R and Jayapriyanka K	Automated Traffic Control System Through internet of Things	Tuija Jishu/Journal of Propulsion Technology
27	Murugan K, Retinder Deep Chander, Prabha Shalini, Kumar Veeramanikam and Tarsem Singh	Accuracy Enhancement in Detecting Pituitary Tumors Using Deep Learning	International Conference on Sustainable Communication Networks and Application
28	Ashwin Raj S, Anitha Shali Alphonse Mani and Kirupa Sankar Muthuvelu	Investigation of Pre-Treatment Techniques on Spent Substrate of Pleurotus Ostreatus for Enhanced Biobutanol Production Using Clostridium Acetobutylicum MTCC	Bioresource Technology
29	Ramasami S, and P Uma Maheswari	Securing Electronic Health Records from insider Threats in Smart City Healthcare Cloud Using Machine Learning Approach	International Conference on Intelligent Communication Technologies and Virtual Mobile Networks



30	Karthikeyan S, M Leeban Moses, N J Dhyaneshwaran, M Akash and P Prasath	Machine Learning Approaches for the Detection and Classification of Leukemia from Histopathological Images	International Conference on Energy, Materials and Communication Engineering
31	Subrata Das, and Sathyasri Thangaraji	Design of innovative Product By Handcrafting of Waste Silk Cocoons	Journal of The Textile Association
32	Prabakaran P, Bolivar V Jadan, Rita Azucena D Vasquez and Marcos Lalama Flores	Representation of Symbolic 2-Plithogenic Matrices By Symbolic 2-Plithogenic Linear Transformations	International Journal of Neutrosophic Science
33	Srinivasan M, Ramachandran, Thandaiah Prabu, Venkata Naresh Mandhala, Mohanraj Ramya, Soman Shibu and Parimala Arumugam	Liner Multimode Fibers With High Distributed Optical Amplification System Based High Efficient Quadrature Modulation System for Reliable High Capacity Local Area Network	Journal of Optical Communications
34	Satheshkumar K, E P Prakash, D Anandhasilambarasan and Prasath B	An intelligent Deep Learning Strategy for Breast Cancer Prediction Using Feature Ensemble Learning	International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence, and Telecommunication Engineering
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37	Subrata Das, P Keerthana and S Nivetha Sharathi	Characterization of Denim Stretchability	Man-Made Textiles in India
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43	Haritha J, Pravin Savaridass M, Sowntharaya V, Kowshika R and Hemavarthini S	Investigation on indoor Detection and Tracking of People Using IWR1642 MM wave Sensor	International Conference on Smart Technologies, Communication and Robotics
44	Bharathiraja M, Vijayakumar Thota, S Sharanyaa, Ayisha Noori V K and K R Shanthi	Analysis of Student's Education Data Based on Data Mining Techniques	International Journal of Intelligent Systems and Applications in Engineering
45	Karthika M S, Harikumar R and Ajin R Nair	Analysis of Machine Learning Classifiers for the Detection of Lung Cancer from Micro Array Gene Data	International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence, and Telecommunication Engineering
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47	Gunalan K, Dakshana M and Abirami M	An In-Depth Survey on Environmental Sustainability: Mitigating Energy Footprints for an Advanced Future Outlook	International Conference on Smart Technologies, Communication and Robotics



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57	Soundariya R S, Sowmya Madhavan, P Selvaraju and K Aarati	Whale Optimization Algorithm Based Improved Convolutional Neural Network for Breast Cancer Detection and Diagnosis	International Conference on Distributed Computing and Optimization Techniques
58	Venkateshkumar U, Naveen Palanichamy and Nithyasai S	Generative Adversarial Network for Fault Diagnosis in Semiconductor Manufacturing	Journal of Intelligent and Fuzzy Systems
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60	Kalaiyarasi M, M Sivasankari, R Shakthi and L Madhu Jothi	Investigations on Swarm Optimization Algorithms for Classification of Eeg Signals in Detection of Epilepsy	International Conference on Smart Technologies, Communication and Robotics
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62	Kalaiyarasi M, and Saravanan R	Respiratory Disorder Detection and Performance Analysis from PPG Signals Using Short-Time Fourier Transform (STFT) Approach	International Conference on Smart Technologies, Communication and Robotics
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79	Poongodi C, Shoukath Ali K, Perarasi T, Gnanaprakash V, Sajan P Philip and Leeban Moses M	Channel Estimation Using Approximate Message Passing Based Hybrid Field for Massive Mimo Systems	Proceedings of The IEEE
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83	Deepa Priya B S, Sureka N, Girirajan Komuravelly, Sudheer Kumar, Soumya and N Soumya N	Hybrid Optimisation Based Convolutional Neural Network for intrusion Detection System	International Journal on Recent and Innovation Trends in Computing and Communication
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85	Prasath M S, R Naveen , M Kumar, A Swarnalatha, R Ezhilarasu and M Ramesh	Corrosion Studies on Al6061 Alloy Based Hybrid Metal Matrix Composites	International Journal of Vehicle Structures and Systems
86	Soundariya R S, B Haritha, Lakshmi Venkata and Ramana Kaneti	Automatic Diagnosis and Grading of Diabetic Retinopathy Using Bat Optimization Algorithm-Refined Deep Residual Network	International Conference on Evolutionary Algorithms and Soft Computing Techniques
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93	Suseela D, J Veneeswari, S Sankar Ganesh, Lalitha Krishnasamy, T Rengaraj and N Kumaran	Efficient Brain Tumor Identification Based on Optimal Support Scaling Vector Feature Selection (OSSCV) Using Stochastic Spin-Glass Model Classification	International Journal of Intelligent Systems and Applications in Engineering
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105	Swathypriyadharsini P, and K Premalatha	A Comprehensive Review on Triclustering Techniques in Threedimensional Data Analysis: Unveiling Patterns Across Biomedical and Social Domains	Scope
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111	Ganesh Babu C, and Dinesh Kumar J R	A Systematic Approach in Detecting Brain Tumor Using CCNN Algorithm	International Conference on Smart Technologies, Communication and Robotics

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119	Elango S, and P Sampath	Implementation of Partial RNS-Assisted Mutual Authentication Protocol for Rfid-Enabled IOT Devices	International Conference on Smart Technologies, Communication and Robotics
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122	Ganesh Babu C, Dinesh Kumar J R and Priyadharsini K	Certain Examination on ECG Classification Using Hybrid Machine Learning Models	International Conference on Smart Technologies, Communication and Robotics
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126	Ganesh Babu C, M Ramkumar and R Sarath Kumar	Eeg Image Classification Using Deep Metric Learning With Nearest Neighbor Technique	International Conference on Smart Technologies, Communication and Robotics
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130	Prathap M R, M Kalimuthu	Automatic Detection of White Blood Cancer from Bone Marrow Microscopic Images Using Convolutional Neural Networks	International Conference on Intelligent Technologies For Sustainable Electric and Communications Systems
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133	Archana J, Lavanya P, Rekha M and Senthilkumar A	Tackling Smallholder Farming Challenges Through Climate Smart Agriculture	African Journal of Biological Sciences (South Africa)
134	Prabhavathi K, M Manikandan and C Santhosh Kumar	Anova Study on Wear Parameters in Aluminum Metal Matrix Nano Composites	E3S Web of Conferences
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136	Anandha Moorthy A, K Kannakumar, P Manikandan, G Ravivarman, A Sivalingam, M Karthik and R Girmurugan	Enhanced Behavior of Solar Stills With Modified Absorber Surfaces: Comparative Analysis of Floating Wick Designs	2nd International Conference on Vision Towards Emerging Trends in Communication and Networking Technologies (VITECON )
137	Dinesh D, Rajasekar R, Santhosh S and Moganapriya C	Enhancement of Polycrystalline Silicon Solar Cell's Efficiency Through Electrospinning Coating Using Erbium Oxide	SAE Technical Papers
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139	Gowthami S, R Boopathi Raaj, R Muthu Selvam and P V Saraswathy	Apnea Controlled Cpap for Obstructive Sleep Patient	Conference Proceedings of Biomedical Engineering science and Technology
140	Prabhavathi K, M Manikandan, R Senthil and Kumar R	Developed Mathematical Model of Wear Rate for Al Alloy With Nanoparticle Reinforcement	E3S Web of Conferences
141	Boopathiraja K P, G Rajamurugan, R Ramamoorthi, Yuvaraj K P and Babu N	Experimental investigation on the Mechanical Properties of Date Seed and Neem Gum Powder Added Natural Composites	International Conference on Smart Electronics and Communication
142	Sangaravadivel P, and N Babu	Influence of Recycled Scrap Particles on Tensile Behavior of Additively Manufactured Polylactic Acid (Pla) Composites for Automotive Upholstery Applications	SAE Technical Papers
143	Satheeshkumar S, Santhosh Krishna and B V Anurag Rawat	Cardiac Arrhythmia-Prediction and Classification Using Support Vector Machine	International Conference on System, Computation, Automation and Networking
144	Mohanambal K, Chandrasekar Venkatachalam, P Selvaraju, Tamil Selvan Sivalingam V Rajakumareswaran and M Murali	Predicting IOT Botnet Attacks for Enhanced Data Transmission Security in the Cloud Using Variational Autoencoders	International Journal of Intelligent Systems and Applications in Engineering
145	Ramya P, M Kasiselvanathan, Nagarani, Manikandan and Rajagopal	Enhanced Chicken Swarm Optimization for Channel Estimation and Low Complexity Hybrid Beamforming Over Massive MIMO	Journal of Autonomous Intelligence
146	Magesh Kumar B, Sathish Kumar G, M Nivaashini, G Uma Maheshwari D and Rasi Arun	Convolution Neural Network With Unsupervised Machine Learning Approach for Feature Extraction and Brain Tumor Detection in Human Beings	International Conference on Emerging Research in Computational Science
147	Prathap M R, and I Aravindaguru	Development and Deployment of An Alert System for Anomaly Heat Detection in industrial Machinery	International Conference on Intelligent Technologies For Sustainable Electric and Communications Systems

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149	Suguna R, Deepa S, Praveenkumar G D, Duraivelu Vivek and Jamunadevi C	Covdnet: A Hybrid Multi - Level Densely Connected Neural Network for Improvised Analysis and Classification of Covid-19 Using Chest Ct-Scans	International Conference on Electronice, Communication and Aerospace Technology
150	Subrata Das, S Sundaramurthy and Sangappa Shillin	A Neural Network Model for Prediction of Defects in Silk Fashion Fabrics	Man-Made Textiles in India
151	Thulasimani T, A Arul Prakash, Sanjay R, Pawar E, Maheswari Jayarama, Pradeep, Nikhil S, Patankar A and Rajaram	Environmental Monitoring Using Wsns for Sustainable Pest and Disease Control in Corn Production	Journal of Environmental Protection and Ecology
152	Vairavel K S, Rangaswamy Balamurugan, Marimuthu, Kalimuthu Veerappan and Kiruthiga Devi	Fuzzy Logic Controller-Based LUO Converter for Light Electric Vehicles	IndonEsian Journal of Electrical Engineering and Computer Science
153	Pushpavalli M, Dhanapal Kanmani, Ruby Aruliah Selvarani, Thilagavathy, Shruti, Bhargava, Choubey, Dondapati and Harika	Smart Device Machine-to-Machineapproach for Enhancingcommunication in Manet Using IOT and Cloud	International Journal of Intelligent Systems and Applications in Engineering
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155	Dhanasekar R, Kumaresan K, Suraj M V, Keshvanth S, Gokul Ram M and Solomon A S Meashake	IOT Based Rmote Monitoring and Control of Bottle Fillin System Using PIC and Node Red	International Conference on Communication , Computing and Industry
156	Praveen Kumar D, V Karuppasamy Vikraman and P Subramanian	Synergism of Surface Co-Rich Activated Carbon-Supported Bimetallic Co:Fe Catalysts for Fischer-Tropsch Synthesis	Energy Sources, Part A: Recovery, Utilization and Environmental Effects
157	Saranya N, V Gnanaprakash, K Shoukath Ali and D Preethi	A Light Weight CNN Model for Breast Cancer Detection	International Conference on Data Science, Agents and Artificial Intelligence



158	Sivaraman P, Govindaraj Ramkumar Perumal Kalpana Devi Vinodhini Shankar Rajinikanth Eshwar Binu Sukumar	Dense Wavelength Division Multiplexing Scheme Based on Effective Distributed inline Light Fiber Raman Amplifier Configuration	Journal of Optical Communications
159	Swathi G, Moni Philip, Jacob Kizhakedathi and Manav Jain	Design of a Chimeric Vaccine Targeting Opa Protein of Neisseria Gonorrhoeae – An Immunoinformatics Approach	Biointerface Research in Applied Chemistry
160	Nithyapriya S, Pundru Chandra Shaker Reddy, Nipun Sharma S, Maheswari B, Jayaram and Tejaswini Katale	A Novel Ensemble Deep Learning Framework for Breast Cancer Prediction	International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems
161	Srinivasan M, Priyadharshini S, A Vanathi and Geetanjali Ganguly	A Logical Air Quality Monitoring System Using Arduino and Smart Sensors Association	International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems
162	Srinivasan M, S Prabhu, Rosaline Samuel and V Chinnammal	An internet of Things Powered Systematic Weather Tracking System Based on Environmental Evaluation Sensors	International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems
163	Vairavel K S, Kumaresan K and Priyavarshini G U	Design, Development, and Validation of thermocycler for Disease Diagnosis	International Conference on Intelligent Data Communication Technologies and Internet of Things
164	Thulasimani T, Kanika Gupta, Anuradha Parasar, D Little Femilin Jana and Amit Chauhan	Effects of Peer Monitoring on Student Stress Level of College Students Based on Multi-Layer Perceptron Approach	International Conference on Intelligent Data Communication Technologies and Internet of Things
165	Deepa D, S Karthikeyan, R Yuvaraj, A Prabhakaran, P Thangavel and R Karthikeyan	Safe Rail Lifting in Construction industries	Educational Administration : Theory and Practice

166	Priyanka B, Diksha Srivastava, Kamal Shah, Renuka Jyothi S and Sumanta Bhattacharya	BIOTechnology's Contribution to Achieving Sustainable Agriculture and Enhancing Food Security	African Journal of Biological Sciences (South Africa)
167	Leeban Moses M, Shoukath Ali K, Gnanaprakash V and Mohammed Aarif K O	Performance Analysis of Deep Learning Based Hybrid Precoder/Combiner in Millimeter Wave Massive MIMO Architecture	International Conference on Evolutionary Algorithms and Soft Computing Techniques
168	Ashwin Raj S, H M Moyeenudin, S Ivo Romauld, Arumugam Sumitha, Rajendran Sudha, S Padmanabhan, J Senthilkumar and B Santosh Kumar	Antihypertensive Effect of Rauvolfia Serpentina for Treating Cardiovascular Disease and Anxiety	Oxidation Communications
169	Sasikala D, Nehaa Shree S A and Nivishna Shree	Sentiment Analysis of online Comments Using Vader - Valence Aware Dictionary for Sentiment Reasoning	African Journal of Biological Sciences (South Africa)
170	Vanitha K, Shanthala Kollur G, Veerasha S, M Pushpavathi R. Krupa Amit Kumar K. R. Varun Y. Madhavi	Elevated Temperature Stress Analysis of Cobalt Based Composite Cladding By Microwave Process on Gas Turbine Rotor Blade Using Fea	Journal of The Institution of Engineers (India): Series D
171	Gunalan K, Dakshana M and Abirami M	An in-Depth Survey on Environmental Sustainability: Mitigating Energy Footprints for An Advanced Future Outlook	International Conference on Smart Technologies, Communication and Robotics
172	hyapriya S, S Prabhavathy, R Priyadarshini, S Savitha and S Kayathri	Hybrid Model to Predict the Breast Cancer Using Stacking and Bagging Model	International Conference on Mobile Networks and Wireless Communications
173	Ramya R, S Aarthee, R Priyanka Pramila, M R Ezilarasan and G Merlin Suba	Advanced Wearable Health Monitoring System With Multi-Sensor Data and Secure Data Management With Blockchain Technology	International Journal of Intelligent Systems and Applications in Engineering
174	Praveena R, and Deepa V	Electronic Structure Analysis: Dft Comparison of Aliphatic and Aromatic Molecules in Biological Systems	Indian Journal of Engineering Science and Technology



175	Eswaramoorthy V, Balaji V, Ramesh R, Arokia Jesu, Prabhu L and Venubabu Rachapudi	Enhancing Predictive Maintenance in Water Treatment Plants Through Sparse Autoencoder Based Anomaly Detection	Journal of Machine and Computing
176	Esakki Madura E, Ankita Mitra, Kiruba B, Basker N, Vini Antony, Grace N and Glory E	A Fuzzy Based CNN Methods for Covid-19 Classification in Noisy Chest X-Ray Images	International Conference on Integrated Intelligence and Communication Systems
177	Jeyavel Karthick P, Nivedha Thangaraj and Logeshwaran Boobibalagan	Screening of Microscopic Fungi Isolated from Charcoal and Wooden Samples for Protease Production	Research Journal of Biotechnology
178	Stephen Sagayaraj A, Reshmy Krishnan, S Elango, R Kaviya Nachiyar, T Indhuja, J Kanishma, A Mohamed Uvaise and G Kalaiarasi	Prediction and Analysis of Water Quality Using Machine Learning Techniques	Lecture Notes in Networks and Systems
179	Joseph Silvester K, and Adithya Raj K P	Quantitative Risk Assessment of Lpg Storage Tank	High Technology Letters
180	Pradeep A D, and Rameshkumar T	Investigation of Mechanical Properties of Heta Treated Al6061 Aluminium Alloy Hybrid Composites	Indian Journal of Engineering Science and Technology
181	Eugene Berna I, Athiraja Atheeswaran, N Megala, Mp Kumar, R Chandrasekaran and C Rajanandhini	Revolutionising Panamawilt Disease Diagnosis: A Deep Learning Approach With Computer Vision integration	International Joint Conference on Advances in Computational Intelligence
182	Malathi Mahalingam, K Kaavin, D Naresh, Mr Yogeshkumar, M Krishna Prakash, S Janarthanan and M Murali Krishnan	In Silico Dft Studies and Molecular Docking Evaluation of Chlorpheniramine With Its Structural Derivative	Indian Journal of Engineering Science and Technology
183	Vinothini V R, Ezhilazhagan, Chenguttuvan, Lakshmi Prabha and Karuppaiah	Mimo-Noma Systems Channel Performance Using Scma-Deep Learning Method	International Journal of Intelligent Systems and Applications in Engineering
184	Balasamy K, S Suganyadevi, A Shiny Pershiya, V Seethalakshmi and Saroj Bala Kumud Arora	Deep Learning Based Alzheimer Disease Diagnosis: A Comprehensive Review	SN Computer Science

185	Nithyapriya S, S Prabhavathy, R Priyadharshini, S Savitha and S Kayathri	A Hybrid Model to Predict the Breast Cancer Using Stacking and Bagging Model	International Conference on Mobile Networks and Wireless Communications
186	Subhapriya P, Hameed Mohamed Kasim Sheit Mohamed U. Seenii Mubarak, Konganapuram S. Mohan Kugalur V. Gunavathy	investigations on the Microbial Activity and Anti-Corrosive Efficiency of Nickel Oxide Nanoparticles Synthesised Through Green Route	Zeitschrift Für Physikalische Chemie
187	Saraswathi C, and N Mohan	Effect of Store Displays on Consumer Impulsive Buying Behaviour in Coimbatore	Educational Administration : Theory and Practice
188	Gayathri R, Perarasi T and Leeban Moses M	Utilization of Convolutional Neural Networks for Enhanced Surveillance and Monitoring	Indian Journal of Engineering Science and Technology
189	Padmashree A, and Krishnamoorthi M	Intrusion Detection Using 1D-Convolutional Neural Network Model for IOT Applications	Indian Journal of Engineering Science and echnology
190	SwathyPriyadharsini P, Sureka N, Vasanthakumar G and U Bhupathi Prashanthi	Efficient Spectrum Sensing in Cognitive Radio Network Using Multi-Objective Improved Salp Swarm Algorithm	International Conference on Distributed Computing and Optimization Techniques
191	Arun Kumar R	Lung Disease Classification Based on Feature Extraction Algorithms Using Machine Learning Models	Indian Journal of Engineering Science and Technology
192	Ramya P, M Kasiselvanathan, S Nagarani and Manikandan Rajagopal	Enhanced Chicken Swarm Optimization for Channel Estimation and Low Complexity Hybrid Beamforming Over Massive MIMO	Journal of Autonomous Intelligence
193	Subrata Das, Keerthana Shanmugaraja, Aarthi Premalatha Ramesh, Marieswari Sivakumar and Sangappa Shillin	investigation on Musculoskeletal Disorders of Workers in the Silk Handloom industry	Man-Made Textiles in India
194	Rajesh Kanna P, and P Santhi	Exploring the Landscape of Network Security: A Comparative Analysis of Attack Detection Strategies	Journal of Ambient Intelligence and Humanized Computing



195	Dhivya P, M Jegavardhini, M Chandru, Krishnan Vaigunth, S Harish Kumar and S Rahul	Streamlining Machine Learning Model Execution Time With Hyperparameter Optimization	International Conference on Innovative Mechanisms For Industry Applications
196	Soundariya R S, R M Tharsanee and M Nivaashini	Ensemble Learning in Concrete Engineering: towards Reliable Strength Estimation for Concrete Quality Estimation	International Conference on Smart Sustainable Materials and Technologies
197	Deeptha V, and Praveena R	Lithium Salt Doped Biodegradable Polymer Film: Preparation, Characterization and Dielectric Properties	Indian Journal of Engineering Science and Technology
198	Senthil Kumar N, Mudit Saxena, Girimurugan B, L J B Anuhya, P Kesineni and Sai Hasan Sanjay	Customer Relationship Management in the Digital Age By Implementing Blockchain for Enhanced Data Security and Customer Trust	International Conference on Disruptive Technologies
199	Ramesh R, D Selvalakshmi, M Naven Karthick, S L Nikileshkumar, S Cibivarshan and K Prasanth	Design and Implementation of Autonomous Maze-Solving Robot Based on An Enhanced Maze Solving Techniques	International Conference on Automation , Computing and Renewable Systems
200	Pousia S, Gowri Shankar M, Sudhahar S, Gnanaprakash G, Jayaprakash S and Nalavarasu N	Enhancing Security in Manet Through Eaack: A Novel Approach for Node Detection, Acknowledgment Validation and Routing Optimization	International Conference on Communication , Computing and Industry
201	Pousia S, Gowri Shankar M, Sudhahar S, Guruprasath J, Dhanushragav M and Lakshminarasimman S	Enhancement in 6g intelligent Network Technologies Using Cognitive Radio Network	International Conference on Communication , Computing and Industry
202	Saraswathi C, N Mohan, T Saravanan and G Malathi	An Empirical investigation on Competency Mapping in Monitoring the Performance Appraisal in It Sector	Educational Administration : Theory and Practice
203	Nagarajan S, Narendra Ryali, Indraganti Sai, Sushma Sri, Singamsetti Sri, Sai Yaswanth Pulluri, Prudhvi Krishna, Vadlapudi, Dinesh and Jagannadh	Advanced Risk and Performance Management in the Financial Sector: A Deep Learning Approach	International Conference on Disruptive Technologies

204	Nagarajan S, Mohana Krishna, I Amulya, S Pavithra, A Sri Vaishnavi, G N S L Sayyad, Sumayya and Thabassum	Strategic integration of Business intelligence and Risk Management for Financial institutions Using a Deep Random forest Approach	International Conference on Disruptive Technologies
205	Ramesh R, Dharani S, Asuvanti M A and Gowrijayasree	Artificial intelligence Techniques Based Energy Prediction Analysis and Load forecasting Using a Dynamic Website	International Conference on Intelligent Technologies For Sustainable Electric and Communications Systems
206	Sathiyamurthi P, S Saravanan, V S Arulmurugan, Jagannath Jadhav and N R Nagarajan -	Recreation of Ac/Ac Converter Utilizing Single Stage Grid Converter for Wave Energy Converter	International Journal of Intelligent Systems and Applications in Engineering
207	Manojkumar P, Dharmateja M, Rama Prabha K P and Asha N	Innovative Data Encryption Techniques Using AI for Wireless Sensor Actuator Network Security	International Conference on Distributed Computing and Optimization Techniques
208	Deepa D, S Karthikeyan, P Thangavel, N Saravanan and R Karthikeyan	Selection of Containment System for Handling Cytotoxic Drugs in Pharmaceutical industry	Educational Administration : Theory and Practice
209	Vignesh Prabu V, N Raghavendran, P Menaga, V Manimaran, Y Harold Robinson and K Ramanan	Hybrid Technique for Constructing Footprint Extraction System from Satellite Imaginary	International Conference on Networking and Communications
210	Srinivasan M, and Ujjwal Makkar	Comparative Analysis of Yarn and Fabric Properties Made from 100 % Viscose Fiber from Air Vortex and Open-End Spinning	Man-Made Textiles in India
211	Chandraprabha K, Aditya Sai, Srinivas Ranjith, Yadav Gowri V, Sivakumar Ponnusamy and Dinesh Mavalru	Development and Implementation of Unmanned Vehicles Through Artificial intelligence involving Communication System With Sensors and Control Parameters	Measurement: Sensors
212	Umamageswari D, and K Sangeetha	On Solving Fuzzy Transportation Problem in Ranking of Octagonal Fuzzy Numbers By Vogel's Approximation Method	Indian Journal of Engineering Science and Technology



## Student Publication

S.No.	Author(s)	Article Title	Journal Name
1	Krishnan Vaigunth, Dhivya P, Jegavardhini M, Chandru M, Krishnan Vaigunth and Harish Kumar S	Streamlining Machine Learning Model Execution Time with Hyperparameter Optimization	IEEE Xplore
2	A Stephen Sagayaraj, S Elango, R Kaviya Nachiyar, T Indhuja, J Kanishma, A Mohamed Uvaise and G Kalaierasi	Prediction and Analysis of Water Quality Using Machine Learning Techniques	Lecture Notes in Networks and Systems
3	T Jiteshwaran, B Janani, Asad Syed, Abdallah M Elgorban, Islem Abid, Ling Shing Wong and S Sudheer Khan	Interfacial Engineering of Bivo4/Pani P-N Heterojunction For Enhanced Photocatalytic Degradation of P-Nitrophenol: Pathway, Toxicity Evaluation and Mechanistic Insights	Surfaces and Interfaces
4	Kumaresan K, Dhanasekar R, Suraj M V, Keshvanth S and Solomon A S Meashake	IoT Based Remote Monitoring and Control of Bottle Filling Process Using Plc and Node-Red	IEEE Xplore
5	Thenisha S, Dharanikumar A B, Arun K, Abirami A and Lakshmanaprakash S	Crawling of Darkweb for Selling Drugs Illegally	Journal of Emerging Technologies and Innovative Research
6	S P Prakash, N Ram Kumar, J Vinu, K Mohanasharan and M Saabareesh	Hybridization Methodology for Predicting ore From Mines to end User Using Machine Learning Technique	IEEE Xplore
7	C Harish, Harikumar Rajaguru And S Karthikeyan	A Comprehensive Deep Learning Approach for Colon Cancer Prediction Using Histopathological Image Analysis	Third International Conference on Smart Technologies, Communication and Robotics (STCR) - 2023
8	Zareen Suhara Nazeer Ali, Mohammad K Okla, S Kokilavani, Mostafa A Abdel-Maksoud, Abdulrahman A Alatar, P R Sivaranjani, Saud S Al-Amri, Ibrahim A Alaraidh and S Sudheer Khan	Unravelling The Enhanced Rifampicin Photocatalytic Degradation Over Green-Synthesized Sro2@Snin4s8 P-N Heterojunction: Pathway, Toxicity Evaluation and Mechanistic Insights	Chemosphere
9	Jayanthan S K	Automatic Biometric Recognition	International Journal for Multidisciplinary Research
10	T Jiteshwaran, Mohammad K Okla, B Janani, Mostafa A Abdel-Maksoud, Yasmeen A Alwasel, Abdulrahman A Alatar, Saud S Al-Amri and S Sudheer Khan	Harnessing Iron-Rich Biochar Boosted Single Crystalline Co2vo4 Nano-Hexagons: A Green Photo-Fenton Catalyst for Rifampicin Remediation and Byproduct Toxicity Evaluation	Surfaces and Interfaces

## Consultancy Details (Dec 2023 - May 2024)

S.No.	Faculty Name	Department	Name of the Industry / Organization	Type of Consultancy	Amount (in Rs.)
1	Rajasekar L	Electronics and Instrumentation Engineering	Texsonics and Beta Power Systems	Large Scale Industries	50000
2	Dhinesh S K	Mechatronics	MWS Research Centre	MSME	15222
3	Ramya P	Electronics and Communication Engineering	Pheonix 3D Metrology and Design Solutions	Small Scale Industries	4720
4	Preetha V	Civil Engineering	Fine Construction	Small Scale Industries	2832
5	Balamurugan V T	Biomedical Engineering	Skywalk Drobotics Academy Pvt. Ltd	Small Scale Industries	50000
6	Nandhini B	School of Management Studies	DMW CNC Solutions India Pvt. Ltd	Small Scale Industries	11800
7	Dinesh D	Mechanical Engineering	ZF Wind Power Coimbatore Pvt. Ltd	FESEM Lab Testing	2400
8	Sanjoy Deb	Electronics and Communication Engineering	Deputy Conservator of Forests	Others	291305
9	Dinesh D	Mechanical Engineering	Hi Tech Engineering College	FESEM Lab Testing	6400
10	Pongali Sathya Prabu N	Physics	Liquid Crystal Research Laboratory	Others	4956
11	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	708
12	Dinesh D	Mechanical Engineering	PSG College of Technology	FESEM Lab Testing	2832
13	Dinesh D	Mechanical Engineering	TVK Industrial Estate	FESEM Lab Testing	6372
14	Dinesh D	Mechanical Engineering	Vels Institute of Science and Technology	FESEM Lab Testing	11564
15	Dinesh D	Mechanical Engineering	Sankara College	FESEM Lab Testing	1652
16	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	3540
17	Dinesh D	Mechanical Engineering	TVK Industrial Estate Guindy	FESEM Lab Testing	6372
18	Dinesh D	Mechanical Engineering	PA College of Engineering	FESEM Lab Testing	1180
19	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	708
20	Dinesh D	Mechanical Engineering	Sri Sankara Arts and Science College	FESEM Lab Testing	1652
21	Dinesh D	Mechanical Engineering	Sri Sankara Arts and Science College	FESEM Lab Testing	7080
22	Dinesh D	Mechanical Engineering	Karpagam Academy of Higher Education	FESEM Lab Testing	12744
23	Dinesh D	Mechanical Engineering	Excel Engineering College	FESEM Lab Testing	7552
24	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	1770
25	Dinesh D	Mechanical Engineering	Vignan University	FESEM Lab Testing	5664
26	Dinesh D	Mechanical Engineering	Govt Arts College	FESEM Lab Testing	1416
27	Dinesh D	Mechanical Engineering	VSB Engineering College	FESEM Lab Testing	1180
28	Dinesh D	Mechanical Engineering	Sacred Arts College	FESEM Lab Testing	4248
29	Dinesh D	Mechanical Engineering	CN College	FESEM Lab Testing	3776
30	Dinesh D	Mechanical Engineering	Anna University	FESEM Lab Testing	1416
31	Dinesh D	Mechanical Engineering	CEG Campus	FESEM Lab Testing	2832
32	Dinesh D	Mechanical Engineering	Muthayammal Engineering College	FESEM Lab Testing	1652
33	Dinesh D	Mechanical Engineering	Sri Sankara Arts and Science College	FESEM Lab Testing	1650
34	Dinesh D	Mechanical Engineering	Sacred Heart College	FESEM Lab Testing	2832
35	Dinesh D	Mechanical Engineering	KSR CAS	FESEM Lab Testing	3776
36	Dinesh D	Mechanical Engineering	KSR CAS	FESEM Lab Testing	7552
37	Dinesh D	Mechanical Engineering	RAMCO Institute of Technology	FESEM Lab Testing	2360
38	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	5900



S.No.	Faculty Name	Department	Name of the Industry / Organization	Type of Consultancy	Amount (In Rs.)
39	Dinesh D	Mechanical Engineering	MCET	FESEM Lab Testing	3776
40	Dinesh D	Mechanical Engineering	Ethiraj College of Women	FESEM Lab Testing	2832
41	Dinesh D	Mechanical Engineering	Vivekanandha Dental College	FESEM Lab Testing	2360
42	Dinesh D	Mechanical Engineering	JKKN CAS	FESEM Lab Testing	10620
43	Dinesh D	Mechanical Engineering	Sri Sankara Arts and Science College	FESEM Lab Testing	3304
44	Dinesh D	Mechanical Engineering	UNOM	FESEM Lab Testing	4248
45	Dinesh D	Mechanical Engineering	Sri Vidya Manthir Arts and Science College	FESEM Lab Testing	3776
46	Dinesh D	Mechanical Engineering	Josephs College of Engineering	FESEM Lab Testing	46246
47	Dinesh D	Mechanical Engineering	Veltech College	FESEM Lab Testing	2124
48	Dinesh D	Mechanical Engineering	Dr Mahalingam Arts and Science College	FESEM Lab Testing	1416
49	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	944
50	Dinesh D	Mechanical Engineering	KPR IET	FESEM Lab Testing	2832
51	Dinesh D	Mechanical Engineering	St. Joseph College	FESEM Lab Testing	1180
52	Dinesh D	Mechanical Engineering	TDM Chennai	FESEM Lab Testing	8260
53	Dinesh D	Mechanical Engineering	Veltech University	FESEM Lab Testing	1652
54	Dinesh D	Mechanical Engineering	Amaravati	FESEM Lab Testing	2360
55	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	236
56	Dinesh D	Mechanical Engineering	Vignan University	FESEM Lab Testing	6608
57	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	118
58	Dinesh D	Mechanical Engineering	Vivekanandha College of Engineering For Woman	FESEM Lab Testing	3304
59	Dinesh D	Mechanical Engineering	Kongu Engineering College	FESEM Lab Testing	1180
60	Dinesh D	Mechanical Engineering	NIT	FESEM Lab Testing	2832
61	Dinesh D	Mechanical Engineering	Anna University	FESEM Lab Testing	4012
62	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	15104
63	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	944
64	Dinesh D	Mechanical Engineering	Kongunadu Arts and Science College	FESEM Lab Testing	6372
65	Basilea Catherine J	School of Management Studies	Roots Industries India Pvt. Ltd	MSME	11800
66	Nagarajan S	School of Management Studies	Nandha Engineering College	Others	5085
67	Poongodi C	ECE	IEEE Usa	Others	345997
68	Dinesh D	Mechanical Engineering	Sacred Heart College	FESEM Lab Testing	5664
69	Dinesh D	Mechanical Engineering	Sacred Heart College	FESEM Lab Testing	5664
70	Dinesh D	Mechanical Engineering	Sacred Heart College	FESEM Lab Testing	4248
71	Dinesh D	Mechanical Engineering	CEG Campus Anna University	FESEM Lab Testing	2832
72	Dinesh D	Mechanical Engineering	Jayaraj Annapackiam College for Women	FESEM Lab Testing	8496
73	Dinesh D	Mechanical Engineering	Veltech Rangarajan Engineering College	FESEM Lab Testing	9440
74	Dinesh D	Mechanical Engineering	KSR Collage of Arts And Science	FESEM Lab Testing	1888
75	Dinesh D	Mechanical Engineering	S V University	FESEM Lab Testing	1180
76	Dinesh D	Mechanical Engineering	Noor Islam Centre for Higer Education	FESEM Lab Testing	1652
77	Dinesh D	Mechanical Engineering	M R Government Arts College	FESEM Lab Testing	708
78	Dinesh D	Mechanical Engineering	VIT	FESEM Lab Testing	944
79	Dinesh D	Mechanical Engineering	Anna University	FESEM Lab Testing	2832
80	Dinesh D	Mechanical Engineering	TII Techno Testing Services Pvt. Ltd	FESEM Lab Testing	11328

S.No.	Faculty Name	Department	Name of the Industry / Organization	Type of Consultancy	Amount (In Rs.)
81	Dinesh D	Mechanical Engineering	Vidya Vikas Engineering College	FESEM Lab Testing	19824
82	Dinesh D	Mechanical Engineering	Kongu Engineering College	FESEM Lab Testing	1416
83	Dinesh D	Mechanical Engineering	SSN College of Engineering	FESEM Lab Testing	12744
84	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	2832
85	Dinesh D	Mechanical Engineering	Sri Sankara Arts and Science College	FESEM Lab Testing	1652
86	Dinesh D	Mechanical Engineering	Noor Islam University	FESEM Lab Testing	4956
87	Dinesh D	Mechanical Engineering	SSN College of Engineering	FESEM Lab Testing	5664
88	Dinesh D	Mechanical Engineering	National College	FESEM Lab Testing	1180
89	Dinesh D	Mechanical Engineering	Bakgiyam Engineering Pvt. Ltd	FESEM Lab Testing	7552
90	Dinesh D	Mechanical Engineering	VIT	FESEM Lab Testing	1652
91	Dinesh D	Mechanical Engineering	Vivekanandha College of Engineering	FESEM Lab Testing	1652
92	Dinesh D	Mechanical Engineering	Bangiyan Engineering Pvt. Ltd	FESEM Lab Testing	11328
93	Dinesh D	Mechanical Engineering	Anna University	FESEM Lab Testing	5664
94	Dinesh D	Mechanical Engineering	TII Techno Services Pvt. Ltd	FESEM Lab Testing	10384
95	Dinesh D	Mechanical Engineering	Sastra Deemed University	FESEM Lab Testing	2141
96	Preetha V	Civil Engineering	Fine Constructions	Small Scale Industries	706
97	Dinesh D	Mechanical Engineering	Lady Dook College	FESEM Lab Testing	4248
98	Dinesh D	Mechanical Engineering	Sri Sangara Arts and Science College	FESEM Lab Testing	1652
99	Dinesh D	Mechanical Engineering	Sacred Heart College	FESEM Lab Testing	5664
100	Dinesh D	Mechanical Engineering	Xaviers College	FESEM Lab Testing	4248
101	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	118
102	Dinesh D	Mechanical Engineering	National Institute of Technology	FESEM Lab Testing	5664
103	Dinesh D	Mechanical Engineering	University of Calicut	FESEM Lab Testing	2124
104	Dinesh D	Mechanical Engineering	KSR Collage	FESEM Lab Testing	1888
105	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	354
106	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	800
107	Dinesh D	Mechanical Engineering	Kongu Engineering College	FESEM Lab Testing	2000
108	Dinesh D	Mechanical Engineering	Anna University	FESEM Lab Testing	5664
109	Dinesh D	Mechanical Engineering	Kongu Engineering College	FESEM Lab Testing	6136
110	Dinesh D	Mechanical Engineering	Kongu Engineering	FESEM Lab Testing	5192
111	Parimala M	Mathematics	MGN Training Consultants	MSME	1000
112	Ashokan S	Physics	Nandha College of Arts and Science, Erode	Others	5310
113	Praveena R	Chemistry	Gobi Arts and Science College, Gobichettipalayam	Others	2000
114	Praveena R	Chemistry	Gobi Arts and Science College, Gobichettipalayam	Others	1500
115	Ramya R	Computer Science & Engineering	Rampex Technologies	Small Scale Industries	20000
116	Parimala M	Mathematics	MGN Training Consultants	MSME	1000
117	Preetha V	Civil Engineering	SM Constructions	Small Scale Industries	590
118	Ramya R	Computer Science & Engineering	Rampex Technologies	Small Scale Industries	20000
119	Sanjoy Deb	Electronics and Communication Engineering	Range Forest Office Harohalli Wildlife Range	Others	95834
120	Balamurugan V T	Biomedical Engineering	Skywalk Drobotics Academy Pvt. Ltd	Small Scale Industries	50000
121	Sanjoy Deb	Electronics and Communication Engineering	A Rocha India, Bengaluru	Small Scale Industries	105430
122	Preetha V	Civil Engineering	Fine Construction	Small Scale Industries	1416



S.No.	Faculty Name	Department	Name of the Industry / Organization	Type of Consultancy	Amount (In Rs.)
123	Kamalraj D	Textile Technology	Avinashilingam Institute of Higher Education and Home Science for Women	Others	3894
124	Karthiga Shenbagam N	Civil Engineering	District Rural Development Agency	Others	23600
125	Kamalraj D	Textile Technology	Shri Mayavan Mills Erode	Small Scale Industries	50150
126	Senthil Kumar N	School of Management Studies	Roots Industried India(P)Limited, Coimbatore	Large Scale Industries	12500
127	Pachamuthu P	Chemistry	Phison Agri Tech Pvt. Ltd., Coimbatore	Small Scale Industries	40120
128	Chandraprabha K	Computer Science and Business Systems	Sri Sabari Auto Works	Small Scale Industries	5000
129	Chandraprabha K	Computer Science and Business Systems	Sri Vel Murugan Traders	Small Scale Industries	20000
130	Naveen P Y	School of Management Studies	DMW CNC Solutions India Pvt. Ltd, Hosur	Large Scale Industries	13000
131	Sanjoy Deb	Electronics and Communication Engineering	A Rocha India, Bengaluru	Small Scale Industries	105430
132	Kirupa Sankar M	Biotechnology	Dr NGP Institute of Technology Coimbatore	Others	15000
133	Ashokan S	Physics	Nandha College Students	Others	5310
134	Preetha V	Civil Engineering	Fine Constructions Erode	Small Scale Industries	708
135	Pachamuthu P	Chemistry	Dr NGP Institute of Technology Coimbatore	Others	15000
136	Kirupa Sankar M	Biotechnology	Dr NGP Institute of Technology	Others	15000
137	Raghunath M	Mechatronics	Equinox's Drones Pvt. Ltd	MSME	35000
138	Sanjoy Deb	Electronics and Communication Engineering	BIT Sathy	Others	10384
139	Srinivasan M	Electronics and Communication Engineering	M/S Sathy Textiles	Small Scale Industries	2000
140	Srinivasan M	Electronics and Communication Engineering	M/S Sun Pipes, Kamadhenu Nagar, Sathy	Small Scale Industries	2000
141	Balakrishnaraja R	Biotechnology	SRM Institute of Science and Technology	Others	12000
142	Naveen P Y	School of Management Studies	Roots Multiclean Ltd Coimbatore	Large Scale Industries	5000
143	Sadasivam K	Physics	PKR Arts and Science College	Others	8000
144	Ashokan S	Physics	Nandha College,Erode	Others	5310
145	Dinesh D	Mechanical Engineering	Veltech University,Chennai	FESEM Lab Testing	1593
146	Dinesh D	Mechanical Engineering	KPR Institute of Engineering and Technology, Coimbatore	FESEM Lab Testing	18172
147	Dinesh D	Mechanical Engineering	KPR Institute Of Engineering And Technology, Coimbatore	FESEM Lab Testing	22302
148	Dinesh D	Mechanical Engineering	Adithya Institute of Technology, Coimbatore	FESEM Lab Testing	1947
149	Dinesh D	Mechanical Engineering	P. A. College of Engineering and Technology(Autonomous), Pollachi	FESEM Lab Testing	1947
150	Dinesh D	Mechanical Engineering	P. A. College of Engineering and Technology(Autonomous), Pollachi	FESEM Lab Testing	1947
151	Dinesh D	Mechanical Engineering	KPR Institute Of Engineering And Technology, Coimbatore	FESEM Lab Testing	40061
152	Naveen P Y	School of Management Studies	Roots Industries India Pvt. Ltd.,	Large Scale Industries	12500
153	Naveen P Y	School of Management Studies	Faculty Development Programe	Others	10225
154	Naveen P Y	School of Management Studies	Wings B School	Others	10000
155	Subrata Das	Fashion Technology	Asian Textile Journal	Others	400
156	Subrata Das	Fashion Technology	V.E.T. First Grade College Bangalore	Others	1500
157	Jayaraman A	Civil Engineering	Indian Ocean Architectures	MNC	3000
158	Jayaraman A	Civil Engineering	3D Skyline Homes	Large Scale Industries	7000
159	Jayaraman A	Civil Engineering	Vijayani Builders	Large Scale Industries	5000
160	Jayaraman A	Civil Engineering	Golden Interiors	Large Scale Industries	10000
161	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	1770
162	Dinesh D	Mechanical Engineering	Ramco Institute Of Technology Rajapalayam	FESEM Lab Testing	3540
163	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	7552
164	Dinesh D	Mechanical Engineering	Bharathiar University Coimbatore	FESEM Lab Testing	1416



S.No.	Faculty Name	Department	Name of the Industry / Organization	Type of Consultancy	Amount (In Rs.)
165	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	708
166	Dinesh D	Mechanical Engineering	Govt Arts College for Man Chennai	FESEM Lab Testing	1652
167	Dinesh D	Mechanical Engineering	Anna University Chennai	FESEM Lab Testing	7080
168	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	708
169	Dinesh D	Mechanical Engineering	Anna University Chennai	FESEM Lab Testing	5664
170	Dinesh D	Mechanical Engineering	TII Techno Testing Services Pvt Ltd	FESEM Lab Testing	26432
171	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	2360
172	Dinesh D	Mechanical Engineering	VIT Vellore	FESEM Lab Testing	8496
173	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	2832
174	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	3304
175	Dinesh D	Mechanical Engineering	Anna University Chennai	FESEM Lab Testing	11328
176	Vijayanand P S	Chemistry	Vivekanandha Arts College for Women, Salem	Others	1770
177	Sathishkannan R	Computer Science & Engineering	Nandha Infotech, Coimbatore	Small Scale Industries	25000
178	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	1180
179	Dinesh D	Mechanical Engineering	VIT Vellore	FESEM Lab Testing	2124
180	Dinesh D	Mechanical Engineering	Anna University Chennai	FESEM Lab Testing	4248
181	Dinesh D	Mechanical Engineering	Vignan University Guntur	FESEM Lab Testing	5664
182	Dinesh D	Mechanical Engineering	National Institute of Technology Tiruchirappalli	FESEM Lab Testing	3776
183	Dinesh D	Mechanical Engineering	Indian Products(P)Ltd Kerala	FESEM Lab Testing	4248
184	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	708
185	Dinesh D	Mechanical Engineering	A.V.V.M Sripushpam College Thanjavur	FESEM Lab Testing	1652
186	Dinesh D	Mechanical Engineering	CNC Erode	FESEM Lab Testing	708
187	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	708
188	Dinesh D	Mechanical Engineering	A.V.V.M Sripushpam College Thanjavur	FESEM Lab Testing	1888
189	Dinesh D	Mechanical Engineering	Rathinamtechnical Campus Coimbatore	FESEM Lab Testing	2360
190	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	1180
191	Dinesh D	Mechanical Engineering	St. Joseph College of Engineering Chennai	FESEM Lab Testing	1416
192	Dinesh D	Mechanical Engineering	Anna University Chennai	FESEM Lab Testing	8496
193	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	1888
194	Ashokan S	Physics	Gobi Arts & Vivekanandha Arts College	Others	4720
195	Srinivasan M	Electrical and Electronics Engineering	Super Sand	Small Scale Industries	10000
196	Kamalraj D	Textile Technology	Avinashilingam Institute of Higher Education and Home Science for Women	Others	1770
197	Preetha V	Civil Engineering	SP Apparals Sathyamangalam	MSME	708
198	Arulmurugan L	Electronics and Communication Engineering	G R Infraprojects Limited	MNC	10620
199	Jayaraman A	Civil Engineering	Golden Interiors	Large Scale Industries	10000
200	Jayaraman A	Civil Engineering	Vijayani Builders	Large Scale Industries	5000
201	JAYARAMAN A	Civil Engineering	3D Skyline Homes	Large Scale Industries	7000
202	JAYARAMAN A	Civil Engineering	3D Skyline Homes	Large Scale Industries	7000
203	JAYARAMAN A	Civil Engineering	Indian Ocean Architectures	MNC	3000
204	HEMALATHA K	Biomedical Engineering	Global Carbon Solutions	MSME	105000
205	SATHIYAMURTHI P	Electronics and Communication Engineering	Shri Mayavam Sizing Erode	Small Scale Industries	50150
206	PRAVEENA R	Chemistry	Gobi Arts and Science College Gobichettipalayam	Others	1475



S.No.	Faculty Name	Department	Name of the Industry / Organization	Type of Consultancy	Amount (In Rs.)
207	Balakrishnaraja R	Biotechnology	Physis Living Philibit Up	Small Scale Industries	31400
208	Balakrishnaraja R	Biotechnology	Jeeva Botanicals Palladam	MSME	9990
209	Praveena R	Chemistry	Gobi Arts and Science College Gobichettipalayam	Others	1475
210	Dinesh D	Mechanical Engineering	Kongu Engineering College Erode	FESEM Lab Testing	5664
211	Dinesh D	Mechanical Engineering	TII Techno Testing Services	FESEM Lab Testing	15104
212	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	708
213	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	944
214	Dinesh D	Mechanical Engineering	Anna University Chennai	FESEM Lab Testing	1416
215	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	826
216	Dinesh D	Mechanical Engineering	KEC College Erode	FESEM Lab Testing	4248
217	Dinesh D	Mechanical Engineering	Anna University Chennai	FESEM Lab Testing	944
218	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	6020
219	Dinesh D	Mechanical Engineering	Lady Doak College	FESEM Lab Testing	4248
220	Dinesh D	Mechanical Engineering	Anna University Chennai	FESEM Lab Testing	12744
221	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	944
222	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	1180
223	Dinesh D	Mechanical Engineering	VIT Vellore	FESEM Lab Testing	8496
224	Dinesh D	Mechanical Engineering	Jayaraj Annapackiam College for Women	FESEM Lab Testing	2124
225	Dinesh D	Mechanical Engineering	Lady Doak College Madurai	FESEM Lab Testing	2832
226	Dinesh D	Mechanical Engineering	Anna University Chennai	FESEM Lab Testing	6844
227	Dinesh D	Mechanical Engineering	TII Techno Testing Services	FESEM Lab Testing	3304
228	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	2124
229	Dinesh D	Mechanical Engineering	K.P.R Institute Of Engineering	FESEM Lab Testing	12744
230	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	2832
231	Dinesh D	Mechanical Engineering	KSRCT Tiruchengode	FESEM Lab Testing	6372
232	Dinesh D	Mechanical Engineering	KASC Coimbatore	FESEM Lab Testing	1416
233	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	2832
234	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	1888
235	Dinesh D	Mechanical Engineering	Chikkaiah Naicker College, Erode	FESEM Lab Testing	3304
236	Dinesh D	Mechanical Engineering	National Institute of Technology, Tiruchirappalli	FESEM Lab Testing	3304
237	Dinesh D	Mechanical Engineering	BIT Sathy	FESEM Lab Testing	1062
238	Dinesh D	Mechanical Engineering	Anna University, Chennai	FESEM Lab Testing	9912


## Events Organized

S.No.	Event Name	Resource Person(s)	Date
1	Hand-on-training Event on Evaluating research methodology using statistical software	Dr. R. Venkatesh Kumar, Associate Director, LTIMindtree, Chennai, INDIA	06.01.2024
2	Expert Discussion on Enlightens Faculty Members on Cutting-edge Research	Dr. KJ Balasubramani, Director of ATRIA Research Lab and CEO of the Global Scientific Technological Innovation Centre in Bangalore	08.02.2024
3	MATLAB Discussion Session with Industry Expert	Dr Vivek Ashokan, ARK (MathWorks)	28.02.2024
4	Workshop on Mendeley and BIT Library Journals for Faculty Development	Dr. M. Bharathiraja, Professor, BIT	28.03.2024
5	One-day seminar on the Application of Multi-Objective Optimization Ratio Analysis (MOORA) Technique in Various Industrial Fields	Dr. V. Subramaniam, a retired professor from AC College of Technology, Anna University, Chennai.	05.04.2024
6	Guest Lecture on Successful Funding Proposal Preparation & Journal Publication	Dr. C. Sharmeela, Professor of Electrical and Electronics Engineering at Anna University, Chennai.	24.05.2024



## Ph.D. Completion

S.No.	Name of the Scholar	Registration No.	Title of the Thesis	Date of Ph.D. Completion	Photo of the Scholar
1	Kanimozhi T	18244691266	Certain investigations on the classification and prediction of cervical cancer using image segmentation based on deep learning techniques	05-01-2024	
2	Oorappan G M	18142691185	Investigation on multilevel inverter topologies for medium power applications	24-01-2024	
3	Saranya D	17247697019	Decompositions of hypercube graphs into paths, cycles and stars	29-01-2024	
4	Prakash K B	18142691198	Performance enhancement of pv/t and pv/t heat pump system using butterfly serpentine flow profile and thermal energy storage	29-02-2024	
5	Arun Kumar R	19144697201	Classification of disease using machine learning techniques	22-03-2024	
6	Basilea Catherine J	19214011062006	Perception of women on jewellery: a comparative study among the rural & urban dwellers	29-04-2024	

S.No.	Name of the Scholar	Registration No.	Title of the Thesis	Date of Ph.D. Completion	Photo of the Scholar
7	Venkatesan R	19144691136	Deepsentimodels: a novel hybrid deep learning model for an effective analysis of ensembled sentiments in e-commerce and s-commerce platforms	07-05-2024	
8	Sathishkumar S	16144697257	Multiport DC-DC converter for renewable energy applications	28-05-2024	



## Recognized Supervisor

S.No.	Name of the Faculty	Department	Date of Supervisor Recognition	Ph.D. Degree Awarded Discipline	Photo of the Faculty
1	Gowri Shankar M	Electrical and Electronics Engineering	28-12-2023	Information and Communication Engineering	
2	Gowthami S	Biomedical Engineering	03-01-2024	Information and Communication Engineering	
3	Kamalraj D	Textile Technology	03-02-2024	Technology	
4	Subramaniyan C	Biotechnology	26-02-2024	Mechanical Engineering	
5	Saran Kumar A	Computer Science & Engineering	18-03-2024	Information and Communication Engineering	

## Summary

Funding Proposals	Sanctioned in (Rs.)	34,03,130
	Ongoing in (Rs.)	3,17,19,453
	Completed in (Rs.)	2,84,275
Patent	Granted	16
	Published	23
	Filed	67
Publication	WoS	108
	Scopus	212
	Others	10
Consultancy (Rs.)	No. of faculty involved	34
	No. of industry involved	156
	Amount in (Rs.)	26,42,736
Ph.D Completion	8	
Recognized supervisor	5	