Stay Ahead

Research and Development (Centre for Research)
@ Research Park

Research
Newsletter

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RESEARCH PARK

Centre for Research (CFR)

Vision

The Centre for Research at Bannari Amman Institute of Technology will serve as a globally renowned centre for Scientific Knowledge, Research Excellence and Innovative Technology.

Mission

- To inculcate the research culture of the institute and thus improve the profile of the institute.
- To indulge in extensive core and multi-disciplinary research activities.
- To develop core group of faculty members with high research potential.

Specific Objectives

- To create an excellent research ambiance and infrastructure.
- To facilitate inter, multi and transdisciplinary research.
- To publish papers in internationally renowned journals, file patents, and facilitate the transfer of technologies to relevant industries.
- To continuously monitor the research outputs for ensuring quality by appropriate committees.
- To enable faculty members and students to translate the knowledge and research into new products to improve the lifestyle of the people.

Contents

Funding Proposals - Sanctioned

1

Inspire Internship Science Camp

Grantee	: Dr Ashokan S
Funding agency	: DST
Amount	: Rs. 9,75,000/-
Duration	: 5 Days

Scope of Sanctioned Funding:

The Inspire Internship Science Camp is an immersive, hands-on educational experience designed to spark interest in scientific research and innovation among students. The program aims to bridge the gap between classroom learning and real-world scientific inquiry by providing participants with the opportunity to engage in research projects across various scientific fields, including biology, chemistry, physics, and environmental science. Through mentorship from university professors and industry experts, students will gain valuable skills in research methodology, critical thinking, data analysis, and scientific communication. The camp also fosters collaboration and teamwork, encouraging students to approach problems from multidisciplinary perspectives. By participating in this program, students will not only deepen their understanding of scientific concepts but also develop the confidence and passion needed to pursue careers in STEM fields. The Inspire Internship Science Camp is dedicated to nurturing the next generation of scientists, innovators, and problem solvers.

# 2 Generative AI in Health Technology-A Practical Approach

Grantee	: Dr Deepa D
Funding agency	: AICTE
Amount	: Rs. 6,00,000/-
Duration	: 12 Days FDP

Scope of Sanctioned Funding:

The generative AI in health technology-a practical approach to equip educators and researchers with the knowledge, skills, and tools necessary to understand and leverage generative AI technologies for advancing healthcare practices, research, and education. The objectives of the proposed FDP are understanding generative AI concepts and technologies by providing a foundational understanding of generative AI, exploring applications in healthcare by demonstrating the applications of generative AI, such as medical imaging, drug discovery, and clinical decision support, promoting interdisciplinary collaboration, addressing ethical and regulatory considerations, enhancing research and innovation, improving teaching and curriculum development by integrating generative AI into curricula to better prepare students for the evolving healthcare landscape.

3 Metallosupramolecules in Nanoconfined Environments - Intelligent Probes for Bioinspired Photoswitching Molecules
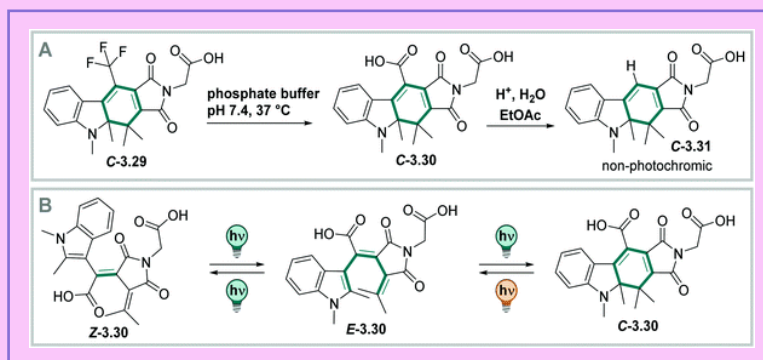
Grantee	: Dr Sathish V
Funding agency	: SERB
Amount	: Rs. 18,30,000/-
Duration	: 3 Years

Scope of Sanctioned Funding:

This research focuses on synthesizing and characterizing transition metal-based supramolecular assemblies with applications in biomimetic, photo switching, and host-guest chemistry. This study aims to explore molecular recognition, photo physical properties, and photo isomerization in confined environments, providing insights into designing advanced materials for sensors, catalysis, and bio imaging. This work will be hopeful for the commitment to cutting-edge research aligned with sustainable and impactful scientific advancements.

4 Faculty Entrepreneurship Development Programme on "Innovation, Incubation and Startups"
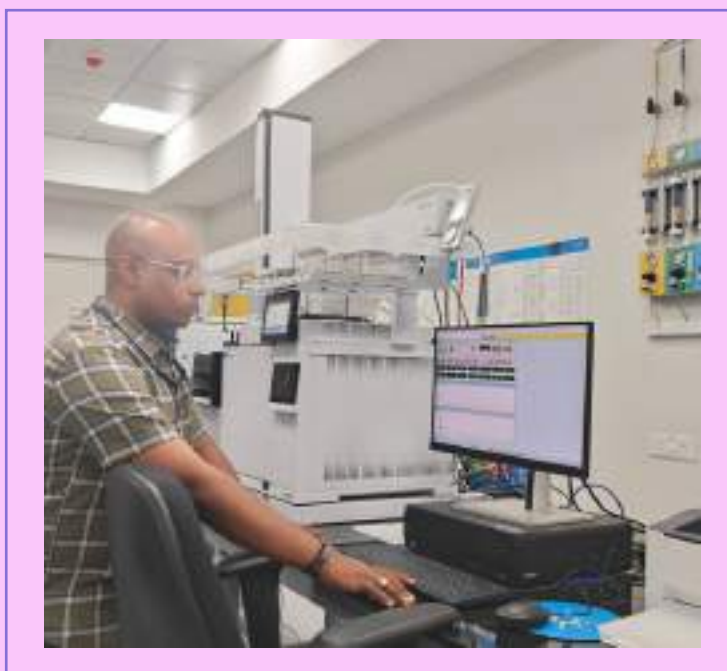
Grantee	: Dr Balakrishnaraja R
Funding agency	: DST
Amount	: Rs. 7,50,000/-
Duration	: 3 Weeks

Scope of Sanctioned Funding:

The Faculty Entrepreneurship Development Programme (FEDP) on "Innovation, Incubation, and Startups" aims to equip educators with the knowledge and skills necessary to foster entrepreneurial thinking and action within academic environments. This program will explore the critical components of innovation, the process of nurturing new ideas, and the establishment of startups, providing faculty members with tools to guide and mentor students in these areas. Participants will gain insights into creating and managing incubators, understanding the startup ecosystem, and the role of innovation in driving economic growth. By integrating case studies, hands-on workshops, and industry collaborations, the program seeks to enhance faculty capabilities in fostering a culture of entrepreneurship, equipping them to play a key role in shaping the next generation of innovators and entrepreneurs. Ultimately, the program will empower faculty to serve as catalysts for change, supporting the development of high-impact startups that contribute to societal progress and technological advancement.

5 Digital Transformation in Tamil Nadu Using AI for Public Services

Grantee	: Dr Dhivya P
Funding agency	: TNSCST
Amount	: Rs. 20,000/-
Duration	: 5 Months

Scope of Sanctioned Funding:

This Digital transformation in tamil nadu using AI for public services explores the implementation of AI-driven solutions in Tamil Nadu's public sector to streamline administrative processes, optimize resource allocation, and ensure better service delivery. The integration of AI technologies, such as machine learning, natural language processing, and data analytics, has enabled the state to automate tasks, predict demand for services, and improve decision-making. Key areas of focus include AI applications in healthcare, education, law enforcement, and urban planning, which have resulted in improved efficiency, reduced costs, and enhanced accessibility for citizens.

6

2 Days Workshop on Advancing Materials: Comprehensive Testing and Characterization Strategies

Grantee	: Dr Bharathiraja M
Funding agency	: TNSCST
Amount	: Rs. 20,000/-
Duration	: 2 Days

Scope of Sanctioned Funding:

The workshop on Advancing Materials: Comprehensive Testing and Characterization Strategies is socially significant, given its potential impact on various aspects of our society. Here are several ways in which the workshop contributes to societal progress: The continual progress of materials testing and characterization strategies is pivotal for technological growth. This workshop serves as a forum for researchers and professionals to exchange knowledge, fostering the development of innovative materials with enhanced properties. These advancements find applications across diverse fields such as electronics, healthcare, energy, and manufacturing. Many material advancements focus on creating eco-friendly and sustainable solutions. Through a deep understanding and application of comprehensive testing and characterization strategies, workshop participants can actively contribute to the creation of materials that are not only environmentally friendly but also durable and energy-efficient. This aligns with the global movement towards sustainable practices, addressing pressing environmental concerns.

Funding Proposals - Ongoing

1 Profiling and Development of Exosome-Based Novel Anti-Arthritic Flavonoid Formulation

Grantee	: Dr Kannan K P
Funding agency	: SERB
Amount	: Rs. 20,50,000/-
Period	: 3 years

Scope of Sanctioned Funding:

Profiling and development of exosome-based novel anti-arthritic 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 formulated as a drug / supplement to withhold the progression and severity of RA.

2 Development of Integrated 6- phase Electric Drive System for Hybrid/Electric Vehicles and to Promote Sustainable Agriculture in Rural Areas

Grantee	**: Dr Sivaraman P**
Funding agency	**: AICTE RPS**
Amount	**: Rs. 13,74,333/-**
Period	**: 3 years**

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.

3

Technological Interventions for Enhancing Productivity, Scalability and Value Addition to Obtain Fiber From a Local Plant (Urtica Dioica) for Tribals in Nagaland

Grantee	: Dr Arun Jayakar S
Funding agency	: DST-SEED
Amount	: Rs. 68,82,120/-
Period	: 2 years

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.

4 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**

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.

5 Skill and Personality Development Programme Centre for SC/ST Students

Grantee	: Dr Balakrishnaraja R
Funding agency	: Start up India
Amount	: Rs. 2,00,00,000/-
Duration	: 1 Year

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.

6 Nanoparticles Dispersed Hydrogen Bond Ferroelectric Liquid Crystals for Efficient Optical Modulator
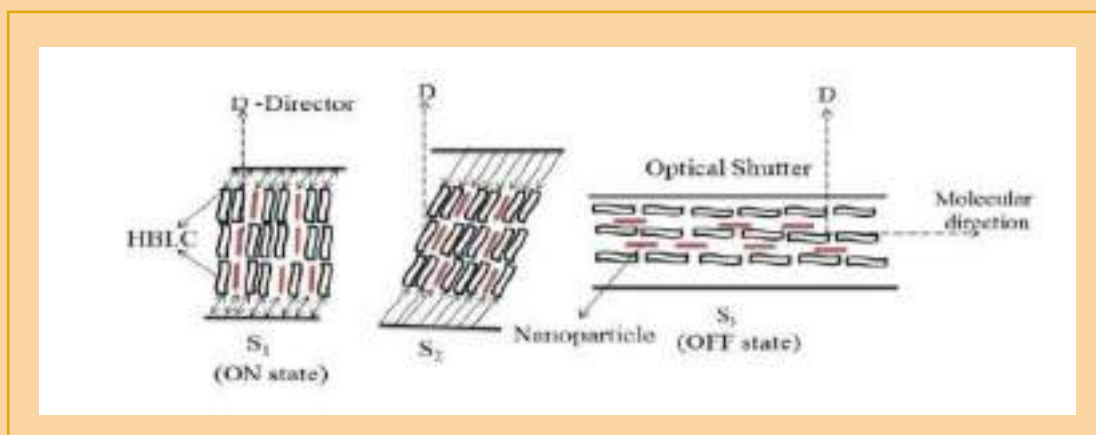
Grantee	: Dr Vijayakumar V N
Funding agency	: DAE
Amount	: Rs. 7,61,000/-
Duration	: 3 Years

Scope of Sanctioned Funding:

To design and synthesis of novel hydrogen bond ferroelectric liquid crystals. To disperse the inorganic/organic nano particles into the synthesized HBFLCS. To execute thermal characterization of nano HBFLCS. To study the electrical (Hysteresis Effect, etc.,) and textural characterization. To explore the molecular dynamic through dielectric studies. To consolidate the suitable nano HBFLC for efficient optical modulator

Dispersion of nanoparticles into HBFLC matrix could be used to design electro-optic devices such as, frequency modulators, optical filter and low driving voltage devices. Detailed investigation (Theoretical and Experimental) on nano particle dispersed HBFLCS could be more useful to introduce an efficient and cost effective optical modulators.

7 Prototype Design and Field Trial of an Elephant Infrasonic Warning Call Generator System
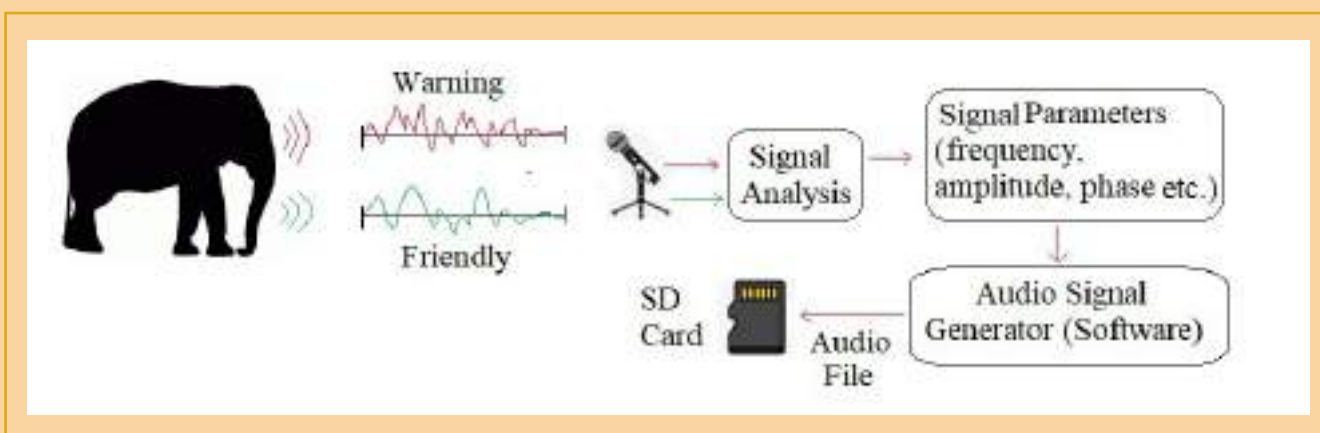
Grantee   : Dr Sanjoy Deb
Funding agency   : SERB
Amount   : Rs. 15,18,000/-
Duration   : 3 Years

Scope of Sanctioned Funding:

The integration of Artificial Intelligence (AI) into precision farming has revolutionized crop health monitoring and management. This project explores the application of AI technologies in optimizing agricultural practices, particularly for monitoring crop health and enhancing decision-making processes in farming. AI-driven solutions, including machine learning algorithms, remote sensing, and Internet of Things (IoT) devices, provide real-time data on crop conditions, soil quality, and environmental factors. These tools facilitate early detection of pests, diseases, and nutrient deficiencies, enabling farmers to apply targeted interventions, thereby reducing the use of pesticides and fertilizers, minimizing environmental impact, and improving crop yield and quality. By harnessing predictive analytics and data-driven insights, AI enhances the efficiency of resource allocation, supports sustainable farming practices, and ensures food security. This project discusses the key technologies involved, case studies of AI implementation in agriculture, and the future potential of AI to revolutionize crop management and precision farming.

8 Agricultural Crop Production Monitoring System Using Internet of Things

Grantee	: **Dr Venkateshkumar U**
Funding agency	: **SERB**
Amount	: **Rs. 18,86,130/-**
Duration	: **2 Years**

Scope of Sanctioned Funding:

The increasing demand for sustainable and efficient agricultural practices has led to the development of advanced systems for crop production monitoring. This project presents an Agricultural Crop Production Monitoring System utilizing the Internet of Things (IoT) to enhance farm management through real-time data collection and analysis. The proposed system integrates various IoT devices, such as soil moisture sensors, temperature sensors, and weather stations, to monitor critical parameters affecting crop growth. These devices transmit data to a centralized platform, where it is processed and analyzed to provide actionable insights for farmers. The system enables farmers to make informed decisions on irrigation, fertilization, pest control, and harvesting, improving crop yield while minimizing resource wastage. Additionally, it supports precision agriculture practices by offering remote monitoring capabilities, reducing labor costs, and ensuring timely interventions. The implementation of IoT in crop production monitoring fosters more sustainable farming, contributing to resource optimization, increased productivity, and enhanced food security. This project explores the system architecture, key components, and potential benefits of IoT-driven crop monitoring in modern agriculture.

Funding Proposals - Completed

1 Knowledge of the Science that Leads to Engineering and Technological Innovation

Grantee	: Dr Ashokan S
Funding agency	: TNSCST
Amount	: Rs. 25,000/-
Duration	: 3 Days

Scope of Sanctioned Funding:

The projects and models displayed by the students include healthcare, which facilitates the effective treatments, vaccines, and wearable health trackers. Clean water and sanitation are made possible by chemistry, keeping us safe from contaminants. Communication technologies like smart phones and the internet usage for global connectivity are also displayed. Innovation in science also fuels our homes and transport systems with sustainable energy options. Climate science promotes environmental practices, helping us to reduce our ecological footprint. Science also enriches entertainment, bringing immersive experiences through advanced sound, video and virtual reality technologies. In every corner of life, science supports and enhances our modern existence, creating a better world.

2

Production of OKRA Mucus Infused Gummies Using AGAR Extracted from Gelidium SP
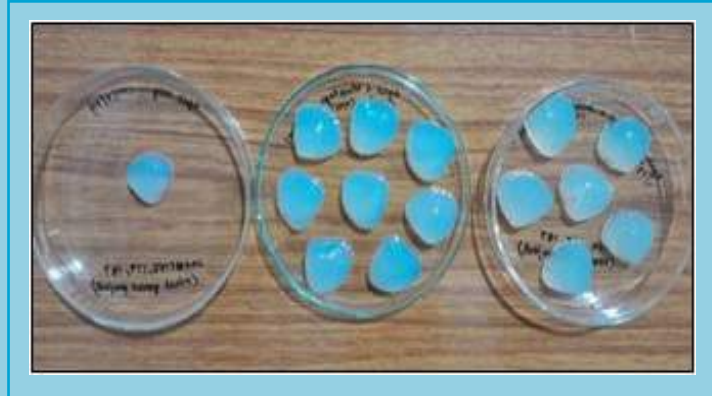
Grantee	: Dr Ashwin Raj S
Funding agency	: TNSCST
Amount	: Rs. 7,500/-
Duration	: 3 Months

Scope of Sanctioned Funding:

The production of OKRA Mucus Infused Gummies using Agar extracted from Gelidium SP. offers an innovative approach to creating a functional food product that combines the nutritional benefits of okra with the gelling properties of agar. OKRA, known for its rich content of vitamins, minerals, and mucilage, is infused into a gummy format, making it more accessible and palatable. agar, derived from gelidium SP., serves as a natural gelling agent that is widely used as a vegetarian alternative to gelatin. The mucilage from okra is extracted and incorporated into the gummy formulation to provide health benefits, such as improving digestion and promoting hydration. The formulation process involves combining OKRA mucus with agar, sugar, and other necessary ingredients, followed by molding and setting to form gummies with an optimal texture and stability. The final product is evaluated for its sensory properties, including taste, texture, and mouthfeel, as well as its nutritional value. This innovative product aims to offer a functional snack with health benefits, contributing to better digestion, gut health, and overall wellness. The successful integration of OKRA mucilage and agar presents a promising alternative to traditional gummy products, with potential applications in the functional food market.

3

Development of Hydroponics System for Growing Saffron in Tamilnadu Conditions

17

Grantee	**: Dr Nagarajan P**
Funding agency	**: TNSCST**
Amount	**: Rs. 7,500/-**
Duration	**: 3 Months**

Scope of Sanctioned Funding:

To develop an indoor setup for growing safrron in tamilnadu climatic conditions, meeting out its requirement by artificially creating its desired conditions. This innovative method ensures the best quality saffron threads by meticulously monitoring and adjusting temperature and humidity factors to match the saffron's natural environment. Exploration of feasibility: the project focuses on adapting hydroponic systems for cultivating saffron in tamilnadu's unique climatic and soil-less conditions, leveraging controlled environments to overcome traditional limitations like high altitude and specific temperature requirements. Potential for scalability: by optimizing resource efficiency and yield, this initiative aims to establish saffron cultivation as a viable agricultural innovation, promoting economic opportunities and sustainable farming practices in the region.

4 Development of Bread from Sapota Seeds

Grantee	**: Dr Arunasree T N A**
Funding agency	**: TNSCST**
Amount	**: Rs. 7,500/-**
Duration	**: 6 Months**

Scope of Sanctioned Funding:

Manilkara sapota, or sapota, is a tropical fruit native to Central America, and its seeds are rich in fiber, protein, and oil (19-24%). Despite these valuable properties, sapota seeds are often discarded. Recently, attention has turned to utilizing these seeds for their potential health benefits, including flavonoids, tannins, and antioxidants, which are useful in the nutraceutical and pharmaceutical industries. Repurposing sapota seed waste not only reduces environmental impact but also offers economic benefits. Sapota seed powder is gluten-free and can enhance the nutritional value of bread, making sapota seed bread a unique, innovative product for those with gluten sensitivity. Optimization studies on drying techniques of sapota seeds and development of sapota seed flour. Optimization studies of sapota seed flour with other ingredients. Development of bread from sapota seed flour. Characterization study of the developed sapota seed bread.

5 IoT Based Blind People Navigation System
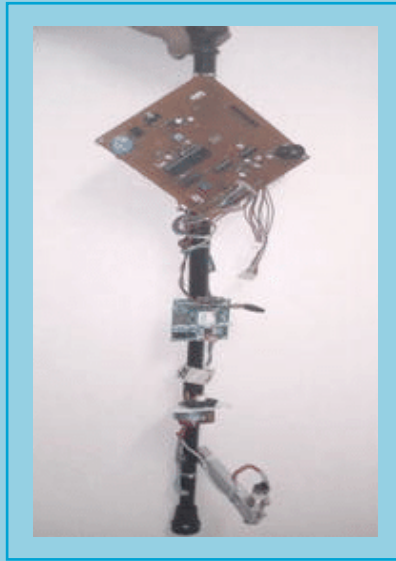
Grantee	**: Dr Maheswari K T**
Funding agency	**: TNSCST**
Amount	**: Rs. 3,000/-**
Duration	**: 6 Months**

Scope of Sanctioned Funding:

The Internet of Things (IoT)-based Blind People Navigation System is an innovative solution designed to assist visually impaired individuals in navigating their environment with ease and safety. This system leverages various IoT technologies, including sensors, GPS, and wireless communication, to provide real-time guidance and obstacle detection. Using a wearable device equipped with ultrasonic sensors, vibration motors, and Bluetooth communication, the system can detect obstacles in the user's path and provide haptic feedback, guiding the user away from potential dangers. Additionally, GPS integration allows for location-based services, enabling the system to provide directions to the user, whether they are walking in familiar or unfamiliar environments. This navigation system also includes a mobile app interface that allows users to input destination information and receive audio-based navigation instructions. The primary aim of this system is to enhance the independence and mobility of blind or visually impaired individuals, ensuring they can navigate both indoor and outdoor spaces confidently. By incorporating IoT technologies, the system offers an affordable and efficient solution to improve the quality of life for people with visual impairments.

6 Automatic Alert and Glucose Level Monitoring System in Hospitals

Grantee	: Dr Dhivya P
Funding agency	: TNSCST
Amount	: Rs. 6,000/-
Duration	: 1 Year

Scope of Sanctioned Funding:

In this project, it is determined the air bubble formation in the IV tube when the blood or fluid composition gets reflowed after completion of the transfusion process in hospitals. If hospital staff forget to replace the trip bottle once it is empty, the patient will face negative consequences when the blood from the body is reflowed again through the IV tube into the trip bottle. In this reflowing process the formation of air bubbles may occur and can lead to further side effects such as heart attack. Therefore, handled with sensor like load cell and the input from this sensor is send to the HX711 amplifier that transmits the information to the wi-fi controller. When the Controller detect the completion of the fluid composition the immediate alert sound is achieved. Therefore, it also displays the Current level of glucose in the mobile app of nurse and also in the common dashboard. After that innovated a SMD bubble sensor fitted in the IV Tube. So that it can compress the tube when the completion of glucose bottle, alarm sound and the air bubble is identified. With the help of this innovation the carelessness of the attender can be prevented.

Funding Proposals - Applied

S.No.	Faculty Name	Name of the Project	Funding Agency	Amount (in Rs.)
1	Chandraprabha K	Conference on Artificial Intelligence in 5D Printing	AICTE	1,00,000
2	Chandraprabha K	Cloud Surge: Elevating Embedded Devices with Seamless Firmware Updates	TNSCST	1,20,000
3	Sivaraman P	2nd International Conference on Energy Power Integrated Circuits and Systems (EPICS)	INSA	15,00,000
4	Balakrishnaraja R	Training Program on Entrepreneurship	MST	7,50,000
5	Karthiga Shenbagam N	Limestone Calcined Clay Cement (IC3) – Cement for Sustainable and Greener Environment	AICTE	1,00,000
6	Malathi Mahalingam	Experimental and Theoretical Studies of Application Oriented Quinolines	TNSCST	10,000
7	Lakshmanaprakash S	Real - Time NLP - Driven Early Warning System for Disaster Prediction and Response	TNSCST	6,80,000
8	Thulasimani T	Industry - Academia Collaboration: Bridging the Gap	TNSCST	2,00,000
9	Pongali Sathya Prabu N	Organic Liquid Crystals as Thermal Shutters for Smart Window Applications	TNSCST	10,000
10	Thirumurugan V	Development of Composite Using Recycled Natural Fibres	TNSCST	10,000
11	Venkatesan R	Quantum Computing Basics & Applications	TNSCST	1,20,000
12	Bharathiraja M	Aicte Training and Learning (ATAL) Sponsored Online Six Days FDP on "Advancing Materials Engineering Through Artificial Intelligence (AI)"	AICTE	1,00,000
13	Deepa Priya B S	A Mobile Micro Finance Platform With AI - Powered Lending for Rural Women Entrepreneurs	DST	1,20,000
14	Gomathi R	National Conference on Recent Advances in Design, Information Retrieval and Knowledge Management	TNSCST	60,000

S.No.	Faculty Name	Name of the Project	Funding Agency	Amount (in Rs.)
15	Rajesh Kanna P	Design Thinking in Healthcare: from Idea to Product Development	TNSCST	1,10,000
16	Dhivya P	Automatic Alert and Glucose Level Monitoring System at Hospital	TNSCST	6,000
17	Dhivya P	Digital Transformation in Tamilnadu Using AI for Public Services	TNSCST	1,20,000
18	Bharathi A	Personalized Fitness Tracker to Assist Healthy Lifestyle	TNSCST	10,000
19	Sathiyamurthi P	Development of Electromagnetic Wave Shielding Fabric Using Micro and Nano Structured Polymer Composites	DRDO	19,70,000
20	Premalatha K	AI - Enhanced Remote Monitoring for Smart Neonatal Intensive Care: Innovations in NICU Management	SERB	1,50,42,300
21	Premalatha K	International Conference on Advanced Computing Using Applied Artificial Intelligence for Smart Society - 2025	ISTE	4,00,000
22	Venkateshkumar U	To Design a Wide Rage Low Power Wireless Sensor Network Device	CMRG	18,62,514
23	Rajeshkumar G	Fraud Detection System for Banking Transactions Using Machine Learning Algorithms	AICTE	10,000
24	Murugappan S	Discovering the Significnace of Social Science Research	ICSSR	4,79,600
25	Sadasivam K	Antioxidant Capability Evaluation of Naturally Occurring Compounds Through DFT	CSIR	12,10,000
26	Bharathiraja M	Advancing Materials Engineering with Artificial Intelligence	AICTE	3,50,000
27	Sampoornam K P	Development of Smart Sensor Systems for Real Time Monitoring of Crop Health	ICSSR	1,50,000
28	Swathypriyadharsini P	An Early Warning System for Wild Boar Detection to Empower Farmers in Sathyamangalam's Agricultural Fields for Sustainable Agriculture	CMRG	23,37,814
29	Subhapriya P	Development of Smart Polymer Hydrogels Using Vinyl Monomers and Modified Natural Polymers for Effective Water and Agrochemical Management in Agricultural Practices	TNSCST	4,60,000

S.No.	Faculty Name	Name of the Project	Funding Agency	Amount (in Rs.)
30	Vijayanand P S	Nano Structured Polymer Composite for Effective Electromagnetic Shielding Applications	DST	65,30,000
31	Ganesh Babu C	Smart Impedance Plethysmography Integrating Signal Processing and Machine Learning for Non - Invasive Blood Flow Assessment in Diabetics	CSIR	21,64,500
32	Harikumar R	AI - Enhanced Non - Invasive Stress Detection Through Wearable PPG Sensors: A New Frontier in Health Monitoring	DRDO	25,06,000
33	Premalatha K	Mobile AI Application for Early Fruit Variety Identification from Saplings in Sustainable Agriculture	ICSSR	23,16,000
34	Bharathi A	Linear Block Cipher and Category Based Random Opposition Learning for Secured Electronic Health Record Sharing	ICSSR	14,96,000
35	Bharathi A	Two Days Workshop on Building Video Analytics Applications on the Edge Devices	CSIR	2,00,000
36	Dhivya P	Uterine Fibroid Identification and Classification from Ultrasound Images Using Deep Learning Models	ICSSR	5,00,000
37	Abirami A	Quantum Based Network Forensic Framework	DST	5,03,00,000
38	Murugan K	Two Day Workshop on VLSI Design Using EDA Tool	TNSCST	1,82,000
39	Kanthimathi N	Empowering Communities with Wireless Sensor Networks for Sustainable Development and Public Health	TNSCST	3,36,000
40	Pushpavalli M	Aidriven Precision Agriculture for Sustainable and Efficient Farming	TNSCST	1,67,000
41	Deepa Priya B S	Implementing Adaptive Learning Educational Approaches	TNSCST	1,20,000
42	Tamilselvi S	Quantitative Enchancement of Secondary Metabolite Content in Rosemary by Screening the Potential Region Specific Microbial Biostimulanta Native to Kadambur Hill Station Part of Westernghats	TNSCST	4,25,000

S.No.	Faculty Name	Name of the Project	Funding Agency	Amount (in Rs.)
43	Sangaravadivel P	Development of Polymer Nano Composites by Fused Filament Fabrication Technique for Energy & Biomedical Applications	CSIR	22,19,500
44	Rajalashmi K	Revolutionizing Healthcare: The Transformative Impact of Artificial Intelligence on Modern Medical Innovations	DBT	1,00,000
45	Poongodi C	AI-Enhanced 6G: Pioneering The Next Generation of Wireless Innovation	AICTE	1,00,000
46	Premalatha K	Unlocking the Power of Bioconductor in R: Practical Training For Genealogy and Drug Discovery	BIRAC	5,00,000
47	Praveena R	Green Synthesis and Characterization of Ternary Co-crystals of Baicalein: An Experimental and Theoretical Study	DAE	7,05,000
48	Padmashree A	National Conference on Advancements in Engineering and Business Strategies(NCAEB2025)	CSIR	1,00,000

Patent

S.No.	Patent Title	Name of the Faculty	Department	Patent Status
1	Sustainable Vehicle Tracking System for Dead Zones Using Internet of Things	Ganagavalli K	Computer Science and Design	Grants
2	Artificial Intelligence Based Agriculture Health Monitoring System	Deepa Priya B S	Computer Science and Engineering	Grants
3	Cloud Computing Based Device for Data Analytics and Management	Gomathi R	Computer Science and Design	Published
4	CCTV Surveillance Based Smart Parking Management System	Ganagavalli K	Computer Science and Engineering	Published
5	Industrial Helmet with Welding Shield	Muthukumar K	Industrial Safety Engineering	Published
6	Deep Learning Techniques for Predicting Student Success in Higher Education Based on Social, Economic and Educational Data	Thulasimani T	Mathematics	Filed
7	Machine Learning Enhanced Techniques for Numericalanalysis and Error Reduction	Thulasimani T	Mathematics	Filed
8	AI Interactive Display Device	Sathyamoorthy J	Computer Science and Engineering	Filed
9	An IOT Enabled Cheque Processing Device	Bharathi A	Information Technology	Filed
10	Transforming Personalised Learning in Higher Education to Predict Student Success Using Machine Learning Approach	Thulasimani T	Mathematics	Filed
11	Curriculum Opportunities for Computational Thinking and Machine Learning in Mathematics	Thulasimani T	Mathematics	Filed
12	Predictive Analysis of Social Media and Cyber crime Effects on Higher Education Academic Performance Using Machine Learning	Thulasimani T	Mathematics	Filed
13	A Novel Process for Production of Tableware from Composites Made of Agricultural Waste and Polylactic Acid (PLA)	Balakrishnaraja R	Biotechnology	Filed
14	AI - Based Gas Consumption Identifyingdevice	Sangeethaa S N	Computer Science and Engineering	Filed

S.No.	Patent Title	Name of the Faculty	Department	Patent Status
15	Power Theft Monitoring	Senthil Kumar J	Electrical and Electronics Engineering	Filed
16	NFC Driven Wall Mountable Mobile Holder	Madhumitha A	Computer Science and Business Systems	Filed

PUBLICATION - WEB OF SCIENCE

S.No.	Author(s)	Article Title	Journal Name
1	**Pradeep A Devaenthiran**, Rameshkumar, Thirupathi	Influence of Heat Treatment on Metallurgical and Mechanical Properties of Aluminium Al6061 Hybrid Metal Matrix Composites	Materials Testing
2	**K T Maheswari**, R Bharanikumar, S Manivannan	Comparative Evaluation of Z Source / Quasi Z Source Direct and Indirect Matrix Converter for PMG Based WECS	Results in Engineering
3	Raj Kumar Veerasamy Subramani,**Thirumoorthy Kumaresan**	Sentiment Analysis Using Graph-Based Quickprop Method for Product Quality Enhancement	Network-Computation in Neural Systems
4	**M Karuppusamy**, V M Revathi	An Enhanced H-Infinity Filtering Delay Dependent Criteria for Continuous Systems with Varying Time-Delays	European Physical Journal-Special Topics
5	**Jayaraman Ariyagoundar**, Vasudevan Mangottiri, P S Vijayanand	A Novel Embeddable Tio2 Potentional Sensor for Corrosion Monitoring in Concrete Structures	Iranian Journal of Science and Technology-Transactions of Civil Engineering
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8	Dinesh Kumar Jayaraman Rajanediran, **Ganesh Babu C**, Priyadharsini K, M Ramkumar	Hybrid Radix-16 Booth Encoding and Rounding-Based Approximate Karatsuba Multiplier for Fast Fourier Transform Computation in Biomedical Signal Processing Application	Integration-The VLSI Journal
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26	Shettahalli Mantaiah Vinu Kumar, Jeyakumar Rengaraj, **Erusagounder Sakthivelmurugan**	Evaluation of Physico-Mechanical, Water Absorption and Thermal Properties of Alstonia Macrophylla Fiber Reinforced Polypropylene Composites	Cellulose Chemistry and Technology
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54	**T Thulasimani**, Farhad F Mehta, Abhishek Bhattacharjee, Raghvendra Sharma, Niraj Gupta, Ankur Srivastava, D Akiladevi, Deepti Dwivedi	Preparation and Evaluation of Famotidine-Loaded Solid Lipid Nanoparticles for Oral Drug Delivery	Biochemical and Cellular Archives

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12	P Kanaga Priya, P Kirupa, P Thilakaveni, **Nisha Devi K**, M Mahabooba, S Jayachitra	Deepricetransfer: Exploiting CNN Transfer Learning for Effective Rice Variety Classification	International Conference on Social and Sustainable Innovations in Technology and Engineering
13	P Kanaga Priya, M S Vinu, **S V Jeevitha**, N Rathina Kumar, N Kanimozhi, S Jayachitra	Augmented Insights: A Qualified Evaluation of Deep Learning Representations for Enhancing Banana Leaf Spot Disease Detection	International Conference on Social and Sustainable Innovations in Technology and Engineering
14	Prithi Samuel, **Eugene Berna I**, Arun Kumar, A K Reshmy, Swaroop Kadaba Sriraj, Yanda Saketh	A Hybrid Solution for Summarizing Diverse Medical Texts in the Health Domain	International Conference on Communication, Computer Sciences and Engineering
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17	**Kannan K P**, Pavithra M K S	Screening of Endophytic Fungi for Biomolecules with Special Reference to TAXOL - An Anti Cancer Drug	Journal of Technology
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19	Pavithra M K S, **Kannan K P**	Characterization and Exploring Genetic Potential of Landraces from Western Ghats of Sathyamangalam with Special Emphasis on Phytochemical Content for Benefaction of Evolvulus Alsinoides (LINN)	African Journal of Biological Sciences (South Africa)
20	Shaik Neelufar Shama, S Radha, **Kannan K P**, Prabin Kumar Mishal, K R Prasanna, Suvarnalakshmi Gunturu, Harika Balya, Nagendra Prasad Kosuri, Santanu Kumar Hotta, G Venkata Nagaraju	Pharmaceutical Assessment and Pharmacological Evaluation of Chia Seed Extract-Aloe Vera Transemulgel	African Journal of Biological Sciences (South Africa)
21	Raj K Keservani, Sailekhya K, **V Deepha**, Sravani Boyapati, Vijay B Lambole, Prasad Laxman Gorde, Vandana Vishnu Shirsath, Heera Battu	Optimizing Lipid-Based Nanocarriers for The Safe and Efficient Oral Delivery of Tizanidine Hydrochloride	African Journal of Biological Sciences (South Africa)

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23	**Praveena R**, Mitali Danu, Jeevan M, Ghormade, Shalini K S, Vijay Dhondiram Wagh, Suhas Narayan Sakarkar, Bhavesh Akbari, Nazim Uddin	Developing and Analyzing Polymeric Microparticles with Agomelatineloaded Mesoporous Silica Nanoparticles for Controlled Drug Delivery	African Journal of Biological Sciences (South Africa)
24	Haymaa Hussein Nowfal, Vijaya Bhaskar Sadu, Sudhakar Sengan, **Rajeshkumar G**, Anjaneyulu Naik R, Sreekanth K	Genetic Algorithms for Optimized Selection of Biodegradable Polymers in Sustainable Manufacturing Processes	Journal of Machine and Computing
25	B R Sathishkumar, K M Monica, **Sasikala D**, M N Sudha	Multi-Fusion Biometric Authentication Using Minutiae-Driven Fixed-Size Template Matching (MFTM)	Journal of Cybersecurity and Information Management
26	Aruna S, Kalaivani N, Mohammedkasim M, **Prabha Devi D**, Babu Thirumangaialwar E	Detect and Prevent Attacks of Intrusion in IoT Devices Using Game Theory with Ant Colony Optimization(ACO)	Journal of Cybersecurity and Information Management
27	B Amarnath Reddy, Sunil Kumar Bharti, S. Kaliappan, A. Vignesh, Nitin Girdharwal, **Magesh Kumar B**	An Efficient Method for Strategic Human Resource Management Based on Bert-Bilstm and Siamese Approach	International Conference on Electronics, Computing, Communication and Control Technology
28	Sweta Sharma, Netala Kavitha, Navdeep Dhaliwal, B Rajalakshmi, Ippa Sumalatha, **R Kavitha**	Fraud Identification in Financial Transactions: Machine Learning-Based Anomaly Detection Method	International Conference on Communication, Computer Sciences and Engineering
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31	Ravivarman Shanmugasundaram, **Manojkumar P**, Sreedhar J, Mallesh M, Jayraj Chanv	Simulation of Hybrid Boost Converter with Reduced Switch Stress for PV Systems	International Conference on Sustainable Green Energy Technologies
32	Jayakumar K, Sivakami K, Logamurthy P, **Sathiyamurthi P**, N Chandrasekaran	Development of a Cryptographic Model Using Digits Classification for Cyber Security Applications	Journal of Cybersecurity and Information Management
33	**Arulmurugan L**, Sangeeta Thakur, R Dayana, S Thenappan, Banavath Nagesh R, Kalaivani Sri	Advancing Security: Exploring AI-Driven Data Encryption Solutions for Wireless Sensor Networks	Bulletin of Electrical Engineering and Informatics

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35	**Sannasi Chakravarthy**, N Bharanidharan, Surbhi Bhatia Khan, V Vinoth Kumar, T R Mahesh, Ahlam Almusharraf	Multi-Class Breast Cancer Classification Using CNN Features Hybridization	International Journal of Computational Intelligence Systems
36	K R Priya Dharshini, R Kalaivani, **K P Sampoornam**, P Logamurthy, S Raguigandhi, S V Vishal	Analysis on Modulation and Demodulation Techniques for Visible Light Communication	International Conference on Innovative Trends in Information Technology
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40	**Subrata Das**, Shanmuga Priya V	Application of Camellia Sinensis on Ramie Fabric for UV Protective Finish	Asian Dyer
41	**Mohan Bharathi C**, Kandha Vadivu P, Udaya Krithika S M, Mani K	Testing Lubrication Properties of CAC Treated and Non-Treated Denim Fabric Samples	Asian Dyer
42	Aruna R, P Manjula Devi, D Arul Suresh, **M Pandiyan**, S Sathya, K Geetha	Deep Learning Based Advanced Image Recognition in Autonomous Vehicles in Industry 4.0	International Conference on Applied Artificial Intelligence and Computing
43	Saranya S, B Channarayapriya, U Harshavardhini, A Sunitha Nandhini, J Revathi, **R Venkatesan**	Development of Virtual Reality Platform Through Human Computer Interaction Using Artificial Intelligence	International Conference on Applied Artificial Intelligence and Computing
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45	Ashokkumar N, Haritha Pothala, Eswar Parimi, Kumar P, Prakash S, **Raghunath M**	IOT - Enabled VLC Industry Automation System: Harnessing Node MCU Micro Controller for Streamlined Control and Communication	International Conference on Intelligent Systems for Cybersecurity
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48	C Rajanandhini, **Eugene Berna I**, N Megala, R Chandrasekaran, J Begam, A Atheeswaran	Revolutionizing Cardiovascular Diagnostics: Advancements in Heart Disease Identification Through Multi Modal Data Fusion and Deep Learning CNN Algorithm	International Conference on Knowledge Engineering and Communication Systems
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52	Nagaraj Doddam, Jose P, J Nithisha, P Lingeswari, Shruti Bhargava Choubey, **Dinesh P S**	Jamming - Resilient Communication for Industrial IOT Systems Using Chaotic Oscillators and Physical Unclonable Functions	International Journal of Intelligent Systems and Applications in Engineering
53	**P Parthasarathi**, M Mary Victoria Florence, D Yuvaraj, S Siamala Devi, Nivedha S, K Selvakumarasamy	Soil Nutrient Composition and PH Balance Persistence Through Deep Knowledge with IOT	Journal of Computational Analysis and Applications
54	**Parthasarathi P**, M Mary Victoria Florence, Mettu Jhansi Rani, Nivedha S, S Siamala Devi, K Selvakumarasamy	Implementing and Evaluating Differentiated Skin Disease Employing Image Categorization Using the Major Deep Network Technique	Journal of Computational Analysis and Applications
55	**Subharathna N**, R Mariaamutha, P Sandhiyadevi	Decoding Handwritten Characters Using Convolutional Neural Networks (CNNS)	International Conference on Sustainable Computing and Smart Systems
56	Chippy Mohan, Devesh Pratap Singh, K Ranjith Singh, N Divya, **Ramkumar R**, S Abirami	A Way Towards Next - Gen Networking System for the Development of 6G Communication System	International Conference on Advance Computing and Innovative Technologies in Engineering
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75	Manthan S, Manavadaria, **Sasikala D**, Rajasree, Rajamohanan, Vikram Madhukar Agone, Charles Babu G, Niji P S	Automated Detection and Alerting System for Wheat Leaf Diseases Using the VGG 16 Deep Learning Model	International Conference on Data Science and Network Security
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77	**Sannasi Chakravarthy**, Bharanidharan Nagarajan, Surbhi Bhatia Khan, Vinoth Kumar Venkatesan, Mahesh Thyluru Ramakrishna, Ahlam Al Musharraf, Khursheed Aurungzeb	Spatial Attention Integrated Efficient Net Architecture for Breast Cancer Classification with Explainable AI	Computers, Materials and Continua
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87	Jeeva S, **Vijayanand P S**, Saran C, Ramanan B V, Sanjeevkumar Saravanan P	Advances in Cartilage Research: A Comprehensive Review of Novel Insights and Future Directions	African Journal of Biological Sciences (South Africa)
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91	**Thulasimani T**, Lambodar Saha, Buchireddy Poreddy, Vusal Karimli Maharram, V Prabakaran, Anil Kumar Lamba	Advanced Analysis of Social and Psychological Factors in Higher Education Institutions Using DNN and LSTM	International Conference on Data Science and Network Security
92	**Padmashree A**, Krishnamoorthi, I Moses Regan, A Sujith	Comparative Analysis of Yield Prediction of Primary Crops in India Based on Regression Models	International Conference on Advances in Information Technology
93	**Rajeshkumar G**, K Vijaya, S Sadesh, Arunkumar P M, Manoj Praveen V, M Senthil Kumar	Predicting Flight Delays and Error Calculation Using Machine Learning Classifiers	International Conference on Electronics and Sustainable Communication Systems
94	**Mythili S**, Aditi Chaulagain, Kalamani M, Prabhakaran V	Behavioral Aspects of 2.5 GHZ in an Indoor Environment	Lecture Notes in Networks and Systems
95	**Premkumar C**, Rajeshwari, R Remya, M S Cholaathiraj, Reethika A, S Bharathidasan	Advancing Alzheimer's Nodule Detection Through a Comprehensive Multi Scene Deep Learning Framework	International Conference on Advanced Computing and Communication Systems

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101	**Venkatesan R**, M Sangeetha, S Nivedha, Selvakumar M, Chandru K S, Parthasarathi P	Hash Tag - Based Sentiment Analysis Using a Deep Learning Approach	International Conference on Advanced Computing and Communication Systems
102	**Kanthimathi N**, R Sheela Daniel, R Santhana Krishnan, Samuel Prabaharanj, S Gopikumar, V Sakthi Maragatham	Enhancing Animal Intrusion Detection with Raspberry Pi and Fast R-Cnn: A Practical Approach for Wildlife Management	International Conference on Iot in Social, Mobile, Analytics and Cloud
103	**Rajalashmi K**, S Jeevana, A Shella, Usha Subramaniam	An Assessment on Algorithms for Planning of Secondary Distribution with Renewable Energy	Lecture Notes in Networks and Systems
104	Shaymaa Hussein Nowfal, **Eswaramoorthy V**, Vishnu Priya A, Bhaskar Marapelli, Swaroopa K, Ezhil Dyana M V	Diabetic Retinopathy Image Lesion Segmentation with Feature Fusion Relation Transformer Network	Journal of Machine and Computing
105	Rafiya Banu, Abbarapu Ashok, Vijay Kumar D, K Amaranadha Reddy, **Thulasimani T**, Neerav Nishant	An Innovative Method for Fraud Detection in Ecommerce Using DCNN-Multiclass SVM Model	International Conference on Intelligent Algorithms Computational Intelligence Systems
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110	Sowmiya R, Revathi P, **Ragunath D**, S Sindhuja, Gokila P, Kalaivani T	Multi-Modal LLM Driven Computer Interface	International Conference on IoT in Social, Mobile, Analytics and Cloud
111	Saranya M, Ravi Shankar S, **Anandan P**, Dineshkumar S, Dharani R, Arun Sekar R	User-Level Emotion Detection Framework for Social Network Data	International Conference on Intelligent Algorithms Computational Intelligence Systems
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113	Manimaraboopathy M, Rajeshwari D, R Rathiya, C B Selva Lakshmi, V Lathajothi , **Sangeethaa S N**	Enhanced Sarcasm Detection Using Grey Wolf Optimizer with Deep Learning on Social Media	International Conference on Intelligent Cyber Physical Systems and Internet of Things
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115	**Anandha Moorthy A**, Senthil Kumar L, Madheswaran S, Pon Maheskumar, Suresh Kumar K, Girimurugan R	A Critical Review on Polymer Composites Reinforced with Artificial Fibers Using Fused Deposition Modelling	Journal of Environmental Nanotechnology
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122	Ahmed Hussein Alawadi, Ahmed Hussien Radie Alawadi, Jeyalaxmi M, S Sivasubramanian, **Swathi G**, Jambi Ratna Raja Kumar	Harnessing Microbial Communities for Advanced Bioenergy Production	E3S Web of Conferences
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126	Vijayalakshmi K, A Judith Fennila, **Maheswari K T**	Blend of Low Cost Electrode Material for Energy Storage Device Under DC Glow Discharge Plasma Exposed ESAC	Materials Protection
127	Ravikumar S, **Eugene Berna I**, Vijay K, Pradeep R, Babu R	Enhancing Solar Energy Harvesting Efficiency: A Dual-Axis Solar Tracking System	International Conference on Innovative Practices in Technology and Management
128	Saravana Kumar R, Lino L, Yogeshvaran, **Leeban Moses M**	Performance Analysis of an Enhancement Mode Operated Algan/Gan Mis-Hemt Device with GA2O3 as a Back Barrier	International Conference on Devices, Circuits and Systems
129	Satyam, Damodaram D, **Sundar S**, N Ashok Kumar	Unveiling the Metaverse: A Paradigm Shift in the Future of Internet Interaction	International Conference on Advances in Electronics, Computers and Communications
130	**Revathi V M**, R Sasikala, B Geetha, Kassem Al-Attabi, Saurabh Aggarwal, Nitin Sherje P	Grid-Forming Converters: Stability and Control in Islanded Power Systems	E3S Web of Conferences
131	Sureshkumar T, J Charanya, **Kumaresan T**, Rajeshkumar G, Kavin Kumar P, Anuj B	Envisioning Educational Success Through Advanced Analytics and Intelligent Performance Prediction	International Conference on Communication and Signal Processing
132	Sahana Shetty, Ramesh S, **Nithya R**, P Thangaraj, Antony Vijay J, Sangamithrai K	Inflammation Segmentation Module Using Convolution Neural Network for Alzheimer's Disease Detection Using Magnetic Resonance Imaging Inputs	International Conference on Science Technology Engineering and Mathematics
133	Renu K, R Menaha, **Ganagavalli K**, N Yamuna, Antony Vijay J, Glory E	Performance Optimization in Software-Defined Networks Based on IOT Networks	International Conference on Science Technology Engineering and Mathematics

S.No.	Author(s)	Article Title	Journal Name
134	C R Dhivyaa, K Nithya, P Shanmugapriya, R Deebika, **Sathis Kumar K**, R Sudhakar	Tri-Unitynet: A Multifaceted Ensemble Model for Pneumonia Detection	International Conference on Advances in Data Engineering and Intelligent Computing Systems
135	Sreeja B P, **Rajeshkumar G**, Alagu Kiruthika B, Sasi Prabha N, Varshini R, Afzal J	Enabling Secure and Effective Deduplication in Multi Clouds	International Conference on Devices, Circuits and Systems
136	D Shekar Goud, Kumar C, S Devipriya, **Dhanalakshmi S**, P S Latha Mageshwari, Anitha Mary M	Low Power Design Techniques for IOT Devices	International Conference on Science Technology Engineering and Management
137	V Balaji Vijayan, T Dhanalakshmi, **Parthasarathi P**, S Nivedha, R Krishnamoorthy, R Thiagarajan	Experimental Evaluation of Smart Forest Fire Detection Methodology Using Internet of Things and Logical Sensors	International Conference on Communication and Signal Processing
138	Vilas Alagdeve, Ranjan K, Pradhan, R Manikandan, **Sivaraman P**, Sarihaddu Kavitha, Shaeen Kalathil	Advances in Wearable Sensors for Real-Time Internet of Things Based Biomechanical Analysis in High-Performance Sports	Journal of Intelligent Systems and Internet of Things
139	Dhiyanesh B, S Ganapathi Ammal, **Saranya K**, K E Narayana	Advanced Cloud-Based Prediction Models for Cardiovascular Disease_ Integrating Machine Learning and Feature Selection Techniques	SN Computer Science
140	**Sowmmiya S**, Murugeson M	Development of Eco Friendly Apron Using Sustainable Fabrics	Man-made Textiles in India
141	**Leeban Moses M**, Karthikeyan Shanmugam, Ramya Palanisamy, Ravikiran	IoT Based Water Pollution Monitoring and Classification Using Machine Learning Algorithms	AIP Conference Proceedings
142	**Subrata Das**, Keerthana Shanmugaraja, Suresh Jayaram	Work-Related Musculoskeletal Disorder Risk in Garment Industry	Man-Made Textiles in India
143	Basharan Vigneshwaran, R Sankara Aravind, A Sathya Nathan, K Jeevanesa Kumar, S Ashok Kumar, **Venkatesan R**	Intelligent Breast Cancer Diagnosis with Optimized Long-Short Memory Network Using Mammogram Images	International Conference on Circuits, Control, Communication and Computing
145	**M Srinivasan**, Anita Titus, T Jayakumar, S Diwakaran, S Ravi	The Structurized Reconstruction Model for Visual Recognition Systems	International Conference on Computing Communication and Networking Technologies
146	**R Rajiev**, S Saran, G Premkumar	Investigation of Tribological Behaviour and Wear Analysis on Fiberglass Composite Materials Under Dry and Lubricating Conditions	Interactions

Student Publication

S.No.	Student Name	Article Title	Journal Name
1	Dhakshinamoorthy P M	Creating Awareness About TamilNadu Village Habitations Improvement (THAI) Scheme	International Journal of Scientific Research in Engineering and Management
2	Logeshwaran R, Nivetha M, Bhavadharani S	Awareness and Survey on Impact of Social Media on Youth	International Journal of Scientific Research in Engineering and Management
3	Jeevana S	An Assessment on Algorithms for Planning of Secondary Distribution with Renewable Energy	Lecture Notes in Networks and Systems
4	Vyshya R, Dharsana S, Sunffee A, Mohan Bharathi C	Design and Development of Portfolio for Kids Party Wear	International Journal of Creative Research Thoughts
5	Lalithkumar K, Naveen Raj B, Priyanga M A, Karthiga M	Capsenet: Deep Learning Based Acute Lymphoblastic Leukemia Detection Approach	2024 8th International Conference on I-SMAC (IOT in Social, Mobile, Analytics and Cloud) (I-SMAC)
6	Soniya B, Boomika R, Rashlini R, Siranjivi C, Mohan Bharathi C	Design and Development of Women's Wear Collection for Upcoming Season	International Journal of Creative Research Thoughts
7	Chandra K, Divya M, Senthilnathan S, Charunetra M S	Pulse Oximeter for Animals	International Research Journal of Education and Technology
8	Sri Venkatesh R , Sabareesh H , Mouli Prasath D K, Prathish A K	Investigation on Integration of Phase Change Materials and Heat Pump in the Roof af a Building for Building Effective Cooling	International Research Journal of Education and Technology
9	Zameer Ali S, Mageshkumar S, Rajapandi P	EMG Signal Decomposistion and Analysis Using Machine Learning Algorithms	International Research Journal of Education and Technology
10	Kavin K, Harinath S, Hariharan S, Kamalesh P	Continuous Non-Invasive Glucose Monitoring	International Research Journal of Education and Technology
11	Shreyaa V, Deepa D	Enhancing Single Channel Speech Processing with Advanced Noise-Reduction Techniques	International Research Journal of Education and Technology

S.No.	Student Name	Article Title	Journal Name
12	Yavanika M	Design and Development of Portfolio for Women's Party Wear	International Journal of Creative Research Thoughts
13	Revith Kumar P, Vishnu Ram M, Dharshan Kumar S, Selvamani S	Modelling and Analysis of Cylindrical Cooling FIN (Heat Loss)	International Research Journal of Education and Technology
14	Sowmiya N, Vigneswar R, Mithul S, Mohammed Abubacker Siddiq A	Acoustic Heart Murmur Characterization Using Deep Learning Algorithms	International Research Journal of Education and Technology
15	Mythili V,Surya Prakash A,Vasanthasudar M,Janeshwar K	Simulation Study of Wind Stability for Integrating Multiple Green Energy Harvesters	International Research Journal of Education and Technology
16	Pon Mithresh B, Rhamanan M, Prasana L, Hari Haran A P	Virtual Drop Test Analysis on High Value Product	International Research Journal of Education and Technology
17	Sanjay D S, Dinesh S, Guhankarthick C, Vijayasarathi R	Flexible Moisture Sensors-A Versatile Arduino-Based System for Automated Electronic Component Measurement Using an LCR Meter	International Research Journal of Education and Technology
18	Stephen Sagayaraj A, Manojprabhu R, Vishnu Prasath S P, Yuvaraj N, Narendra J	PCB Defect Detection Using Yolo Algorithm	International Research Journal of Education and Technology
19	Aruleswaran G, Haris M, Boopathyrajan P, Yuvaraj K	Deep Learning Approach for Optimum Power Management Using IoT in EV Battery Management System	International Research Journal of Education and Technology
20	Mr.Biju J, Shwetha S, Vishaal M, Kamal M	House E-Auction Platform Connecting Buyers and Sellers in a Digital Space	International Research Journal of Education and Technology
21	Dhanushragav M, Vimalram K C, Vikashini M, Lakshmi Narasimman N	Detection and Classification of Disease from Mango Fruit Using Convolutional Recurrent Neural Network with Metaheuristic Optimizer	International Research Journal of Education and Technology
22	Thrisha J, Ramya M, Varshini L, Gauthamgiri K, Caroline Vinnetia S	Analysis of EMG Signal in Healthy and Neuropathic Individuals	International Research Journal of Education and Technology
23	Satheesh M, Bhuvan Kanna S, Sri Logesh M	Hospital Environment Monitoring System Using Lora	International Research Journal of Education and Technology

S.No.	Student Name	Article Title	Journal Name
24	Thirugnanaskandhan S, Jashwanth R, Jayavarshan S, Chandru M	Hand Gesture Controlled Virtual Mouse Using Opencv, Mediapipe in Python	International Research Journal of Education and Technology
25	Sathiyamurthi P, Rajesh Kanna K, Seran G, Guna V	Fault Diagnostic and Performance Monitoring of Industrial Machines Using Machine Learning and IoT	International Research Journal of Education and Technology
26	Giridharan V, Hariharan S, Mukesh S	Influence of E-Glass Fiber Addition on Mechanical Properties of Jute Fiber Reinforced Hybrid Composites	International Research Journal of Education and Technology
27	Mouly Vinayaka T N, Vishwanth V, Rajgokul R M, Santhanasri R	AI Driven Job Matching for the Disabled	International Research Journal of Education and Technology
28	Naresh S, Bala Prasanna N, Gokul G, Subaash Hari B	Comprehensive Inspection and Analysis of Water Supply Distribution Lines	International Research Journal of Education and Technology
29	Kesavamurthi B	Evaluation of Vibrant Muscles in Lower Extremity Region in Automobile Industry	International Research Journal of Education and Technology
30	Sathiyan K A, Yuvan Kesav A, Siberaj N, Kishore Kumar J, Pushpavalli M	Multiple Channel Lora-To-Leo Scheduling for Direct-To-Satellite IoT	International Research Journal of Education and Technology
31	Mirudhun Kumar S, Naveen Bharathi S, Naveen Prakash S, Sarathi K, Selvakumar M	360-Degree Feedback Software for the Government Press Information Bureau (PIB) Using Artificial Intelligence and Machine Learning	International Research Journal of Education and Technology
32	Maghudesh S S	Development of Dual Collector Solar Water Heating System with Flat Plate Reflector and Parabolic Fresnel Lens for Sustainable Energy Solutions	International Research Journal of Education and Technology
33	Deepa D, Pragadeesh R	EMG Signal Analysis Using Improved Wigner-Ville Distribution Model and Long Short- Term Memory for Amyotrophic Lateral Sclerosis Prediction	International Research Journal of Education and Technology
34	Priyanka B, Deepa D	Skin Disease Detection Using Neural Networks	International Research Journal of Education and Technology
35	Pradeep P, Partha Sarathi N S, Kathiresan S, Arun R	A DSM Based Approach for Solving Environment Constrained Economic Dispatch for a Microgrid System	International Research Journal of Education and Technology

S.No.	Student Name	Article Title	Journal Name
36	Vikash R, Vijay Kumar K S, Dhanush Raj A K	Development of Ground Control Station for Low Level ROVS	International Research Journal of Education and Technology
37	Syed Fazil S, Gokul M P, Adhithya M	Sign Language and Hand Gesture Recognition Using Deep Learning	International Research Journal of Education and Technology
38	Suman Kumar G, Jaya Prakash S, Gemini R, Vishva B	Short Term Solar Power Forecasting Based on Recurrent Neural Network Model	International Research Journal of Education and Technology
39	Jayadev C L, Janarthanan K, Harishkumar S, Gurudev T H	Book Identification in Library Using Machine Learning	International Research Journal of Education and Technology
40	Ajay R, Arun S R	Online Loan Management System Using Amazon Web Services	International Research Journal of Education and Technology

Consultancy Activities

S.No.	Faculty Name	Department	Name of the Industry / Organization	Type of Counsultancy	Amount (in Rs.)
1	Dr Dinesh D	Mechanical Engineering	Total 104 Agenesis	FESEM Lab Sample Testing	9,93,955
2	Dr Preetha V	Civil Engineering	Others	Cube Testing	708
3	Dr Preetha V	Civil Engineering	Others	Soil Test	1,534
4	Dr Gnanasundar V M	Civil Engineering	Sowntharya Flyash Bricks PVT LTD	Flyash Brick Testing	1,770
5	Dr Sanjoy Deb	Electronics and Communication Engineering	Deputy Conservator of Forests	Elephant Warning Light System	96,330
6	Dr Senthil Kumar N V	School of Management Studies	Lakshmi Ring Travellers (Coimbatore) Private Limited	MDP on Data Analytics Using Excel	11,800
7	Dr Thirumurugan V	Fashion Technology	Mrs. J Vidya , Research Scholar, Avinashilingam University	Plasma Treatment	4,248
8	Dr Pradeep A D	Mechanical Engineering	Jeevarathinam A	Vicker's Hardness Material Testing	4,130
9	Dr Gnanasundar V M	Civil Engineering	Others	Sand Testing	1,534
10	Dr Karthiga Shenbagam N	Civil Engineering	Pixous Technologies PVT LTD	Material Testing	33,984
11	Dr Gnanasundar V M	Civil Engineering	Government	Material Testing	9,086
12	Dr Subhapriya P	Chemistry	Ascent Chemicals	Synthesis Process of Super Absorbent Polymers	1,500
13	Dr Balakrishnaraja R	Biotechnology	Ascent Chemicals	Microbial Parameter Analysis and ODOR Removal Process	4,114
14	Dr Purusothaman P	Information Technology	Codissia	People Counting in Agri Intex	1,00,000
15	Dr Ranjitham M	Civil Engineering	Dr. Chinnasamy	Cube Testing	708
16	Dr Senthil Kumar N	School of Management Studies	Emerald Jewel Industry India Limited, Coimbatore	Data Analytics	28,084
17	Dr Nandhini B	School of Management Studies	Emerald Jewel Industry India Pvt. Ltd	MDP on Data Analytics	23,800

S.No.	Faculty Name	Department	Name of the Industry / Organization	Type of Counsultancy	Amount (in Rs.)
18	Dr Daniel Raj A	Electronics and Communication Engineering	Freelancer	Environmental Data Capture and Image Storage System	26,255
19	Dr Loganayagan S	Civil Engineering	Gudalur High Tech Builders Pvt Ltd	Pavement Quality Test - FDD, MDD	57,820
20	Dr Perarasi T	Electronics and Communication Engineering	Gracewell Technologies	Connectivity Solutions Among Users	5,000
21	Dr Poongodi C	Electronics and Communication Engineering	Gracewell Technologies	Seamless Service Integration: A Comprehensive Solution	5,000
22	Dr Gnanasundar V M	Civil Engineering	Municipality	Inspection Report Stability Test	48,144
23	Dr Karthiga Shenbagam N	Civil Engineering	Raju & CO	Bridge Safe Deflection Test	1,65,000
24	Dr Preetha V	Civil Engineering	Srisairam Constructions Gobi	Soil Testing at Keeranatham Village	26,550
25	Dr Karthiga Shenbagam N	Civil Engineering	Sri Muniappan Copnstructions	Material Testing	10,000
26	Dr Karthiga Shenbagam N	Civil Engineering	Sri Muniappan Copnstructions	Material Testing	48,090
27	Dr Rajiev R	Mechatronics Engineering	Summits Hygronics Pvt Ltd	Fesem Lab Testing	35,400
28	Dr Vishnu Sajan	School of Management Studies	SRK Polymers Pvt Ltd	MDP on Data Analytics	26,432

Scientist Interaction

Sl.No	Event Name	Resource Person(s)	Date
1	Prospects and Challenges of Artificial Intelligence Applications in Forestry	Dr N Senthilkumar, Scientist F, Forest Entomology, ICFRE- Institute of Forest Genetics and Tree Breeding, Forest Campus, R.S.Puram, Coimbatore.	25.07.2024
2	Innovative Solutions for Funding: Navigating Interdisciplinary Research Grants for Various Domains	Dr P S Pandian, Scientist G, Director Technology, Office of Director General (ECS), LRDE Campus, C V Raman Nagar, Bangalore.	03.08.2024
3	Emerging Trends in Spacecraft - Research Grant Funding Opportunities	Dr B Karthikeyan, Scientist / Engineer SG, UR RAO Satellite Center, Old Airport Road, Bangalore.	17.08.2024
4	Smart Healthcare (Bio)Sensor, Challenges and Opportunities for Intervention of Engineering Expertise	Dr Murugan Veerapandian, Principal Investigator, AcSIR Biological Sciences, CSIR, Karaikudi.	23.08.2024
5	Driving Innovation and Entrepreneurship Through Funding Opportunities in Science and Technology	Dr Sujay Chakravarthy, Scientist F, UGC-DAE-CSR, Kalpakkam.	05.09.2024
6	KLOT Busters and Bug Busters: Mile Stone Blockbuster Technologies	Dr Kammara Raja Gopal, Scientist G, Chief Scientist / Professor, Central Food Technological Research Institute, Mysore.	26.09.2024
7	Machine Learning for Sustainable Energy Future	Dr Easwaramoorthi Ramaswamy, Scientist E, International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI), Balapur P.O, Hyderabad.	14.10.2024
8	Fascinating World of Space Science	Dr Senthilkumar A, Scientist / Engineer SG, Head, Programme Planning and Evaluation Cell.	18.10.2024
9	Strategic Research & Development: Igniting Innovation for Nation Building	Dr K Kadirvelu, Scientist G and Associate Director Scientist / Engineer SG, DEBEL, DRDO, Ministry of Defence, Govt. of India.	22.10.2024

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	Dr Dinesh D	1414269822	Experimental Investigation on Mechanical and Tribological Behaviour of Friction Stir Processed Leaded Tin Bronze Alloy	28-06-2024	
2	Dr Sakthiya Ram S	18153691164	An Investigation on Hybrid Optimization Controller Design for Auto Respiration and Vehicle Suspension System	05-07-2024	
3	Dr Deepankumar S	18142691271	Experimental Investigations on Influence of E-waste Plastic Pyrolysis Oil Blends with Nano Additives in CI Engines	12-07-2024	
4	Dr Saranya S	20245691109	Bio-evaluatuon and Efficacy Analysis of Costus Pictus as Functional Food	08-08-2024	
5	Dr Dhinesh S K	18142691263	Investigation of Geometrical and Material Characteristics on the Performance of 3D Printed Strain Sensor	21-08-2024	
6	Dr Alex Stanley Raja T	17143691141	Estimation of Optimal Parameters of Three Diode Solar PV Model Using Novel Optimization and Intelligent Techniques	30-08-2024	

S.No	Name of the Scholar	Registration No	Title of the Thesis	Date of Ph.D. Completion	Photo of the Scholar
7	Dr Ramkumar R	1514369206	Design, Analysis and Field Verification of Real-time Intelligent Sensor Systems	13-09-2024	
8	Dr Abirami A	1117913201	Machine Learning Based Proactive Network Forensic Investigation Framework	01.10.2024	
9	Dr Lakshmanan D	17122697113	Aerodynamic Investigations and Power Requirement Analysis of Solar Powered Unmanned Aerial Vehicle for Long Endurance	09-10-2024	
10	Dr Sri Vinitha V	18244691394	Improving E-Mail Spam Classification Performance Using Machine Learning Techniques	15.10.2024	
11	Dr Jeyanth B	17141591163	Flexural Behaviour and Corrosion Effect on PET Fiber Reinforced Concrete along with Pomegranate Peel Extract Coated Rebar	12.11.2024	
12	Dr Geethamani R	8754862106	Investigation of Combined Batch Treatment Processes for Leachate from the Open Dumping Site in Sathyamangalam, Erode, Tamil Nadu	21.11.2024	

Recognized Supervisor

S. No	Name of the Faculty	Department	Date of Supervisor Recognition	Ph.D. Degree Awarded Discipline	Photo of the Faculty
1	Dr Oorappan G M	Mechatronics	01-07-2024	Mechanical Engineering	
2	Dr Prakash K B	Mechanical Engineering	30-07-2024	Mechanical Engineering	

Summary

Period June - November, 2024

Funding Proposals	Applied in (Rs.)	8,43,22,928
	Sanctioned in (Rs.)	41,95,000
	Ongoing in (Rs.)	3,58,84,583
	Completed in (Rs.)	56,500
Patent	Granted	2
	Published	3
	Filed	11
Publication	WoS	101
	Scopus	146
	Others	40
Consultancy (Rs.)	No. of faculty involved	20
	No. of industry involved	131
	Amount in (Rs.)	15,05,976
Ph.D Completion	12	
Recognized supervisor	2	

Central Research Facility

Research labs

1. Biomolecular Characterization and Instrumentation Lab
2. Fabric Surface Enhancement Lab
3. Functional Macro Molecular Enhancement Lab
4. Materials Processing and Testing Lab
5. Electrical Power Analysis Research Lab
6. Liquid Crystals Research Lab
7. Quantum Computing and Phytochemistry Research Lab
8. Condensed Matter Research Lab
9. Advanced Materials Research Lab
10. Subsonic Airflow Testing Lab
11. Materials Characterization FESEM Lab
12. Environmental Research lab
13. Centre for Metal Additive Manufacturing

Softwares

1. MATLAB
2. Cadence Tools Suite
3. LabVIEW
4. Oracle 11g
5. Ansys 18.0
6. CREO
7. CATIA V5
8. NX CAM Express
9. Solidworks 16
10. Altair Multiphysics/Mechatronics
11. Turnitin Originality
12. Origin