



SRM MADURAI
COLLEGE FOR ENGINEERING AND TECHNOLOGY
(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai)
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JUNE-DEC 2023

News Bulletin

RESEARCH AND DEVELOPMENT CELL

<https://srmmcet.edu.in/about-research-and-development-cell/>

VISION

To establish SRM Madurai College for Engineering and Technology as a pioneering center for Research and Development to foster a culture of innovation, collaboration, and excellence.

MISSION

To nurture a vibrant research culture that promotes creativity, and critical thinking among faculty members and students.

To disseminate research findings through publications, conferences, and knowledge transfer activities, contributing to the global scientific community.

To actively engage and inspire the next generation of engineers, fostering a spirit of lifelong learning and a passion for collaborative research and innovation.

SRM MCET

VOL NO.1
ISSUE NO. 1

MESSAGE

I am excited to announce the remarkable achievements stemming from our Research & Development endeavors. Our dedicated team has deep into emerging engineering area, and their efforts have borne fruit with groundbreaking discoveries that promise to revolutionize at diversified industry/field.

These stand as testament to our unwavering commitment to innovation and the pursuit of excellence. also ignite a sense of excitement for the future. They pave the way for new opportunities and possibilities, positioning us at the forefront of innovation. Let us collectively celebrate these achievements and remain steadfast in our pursuit of pushing the frontiers of knowledge, ensuring our continued contribution to shaping a brighter, more innovative tomorrow.

- PRINCIPAL

I hope this message finds you well. As the Research Coordinator, transcends mere facilitation; it's about fostering an environment that thrives on collective expertise and diverse perspectives. In the weeks ahead, our focus will be on streamlining communication channels, fortifying partnerships, and nurturing an ecosystem where ideas are not just born but cultivated to their fullest potential.

Collaboration lies at the heart of our success, and I encourage each of you to actively engage, share your insights, and leverage our collective knowledge to drive impactful research initiatives.

Our mission is not merely to conduct research but to catalyze breakthroughs that push the boundaries of knowledge. Let's use the opportunities and turn obstacles into stepping stones.

- R&D Coordinator(s)

SCOPE

R&D news bulletin serves as a pivotal resource to engage, inform, and inspire students, faculty, and researchers within the academic ecosystem. It aims to spotlight the college's research initiatives, innovations, and achievements, creating a platform that celebrates scholarly endeavors while fostering a culture of inquiry and discovery.

The bulletin's scope encompasses a diverse range of subjects, including but not limited to science, technology, engineering, arts, and mathematics (STEAM). It showcases profiles of researchers, interviews with faculty members, and highlights the interdisciplinary nature of research within the college.

Moreover, it serves as a conduit to communicate opportunities for students to engage in research, internships, conferences, and funding options. It can feature opinion pieces, discussions on the significance of research in various fields, and insights into the practical applications of academic knowledge.

By promoting a culture of innovation and intellectual curiosity, the R&D news bulletin provide connections, encourages cross-disciplinary collaborations, and stimulates dialogue among students and faculty. It acts as a catalyst for knowledge exchange, encouraging participation and inspiring the next generation of researchers and innovators within the institute community.

ABOUT R & D CELL

The SRM MCET encourages faculty members to engage in interdisciplinary and interdepartmental research activities and resource sharing.

Resource Mobilization

Institution support in terms of financial, academic and human resources required and timely administrative decisions to enable faculty to submit project proposals and to approach funding agencies for mobilizing resources for research.

Promote Research Culture

R&D promotes information on the policies, practices and outcomes of the SRM MCET, with reference to research, consultancy and extension. It deals with the facilities provided and efforts made to promote a 'research culture'. The responsibility of R&D is to enable faculty to undertake research projects useful to the society.



Sustainable practices

Institution support in terms of financial, Sustainable practices of the institution leading to superior performance resulting in successful outcome in terms of knowledge transformation which will be benefited for the learner as well as the community as a whole.



R&D Responsibilities

R&D departments play a critical role in Innovation and New Product Development, Research Planning and Strategy, Project Management, Research Execution and Analysis, Intellectual Property Management, Collaboration and Partnerships, Technology and Market Analysis, Compliance and Regulatory Affairs, Budgeting and Resource Allocation, Documentation and Reporting, But not limited to

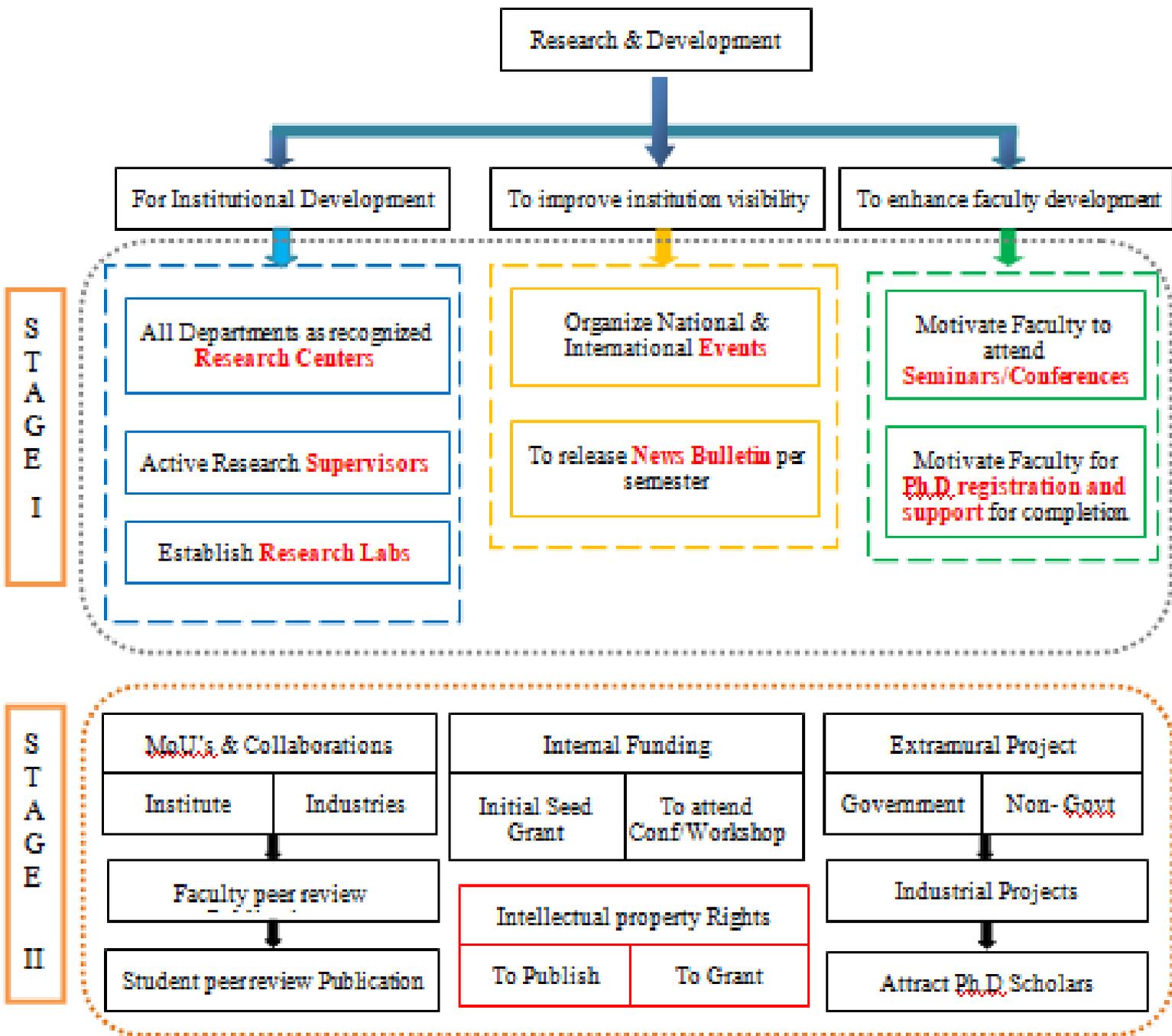
- Develop a Research Roadmap
- Foster Collaboration and Cross-Functional Integration.
- Resource Allocation and Budgeting.
- Intellectual Property Rights

R&D REGIME

R&D involves improve creativity and idea generation, encouraging cross-functional collaboration by following a robust experimental framework, encompassing rigorous testing, data analysis, and iterative refinement.

Process adoption

Throughout, dedicated resources and timelines are allocated, ensuring alignment with organizational goals. This structured approach fosters innovation, driving sustainable growth and competitive advantage.



R&D FUNCTIONALITIES

THE MAJOR ACTIONS ARE

- Planning, and upgrading infrastructural facilities to meet research needs To conduct Workshops/ training programmes/ Conferences
- To attract researchers of eminence to visit the campus
- Measure to adopt faculty involvement in research initiatives and social development. Seed money to the faculty for research based on Research Advisory Committee and Department Advisory Committee.
- Optimal use of various equipment and to create research facilities.
- Technical support to the faculty to get research funds from various funding agencies. Systems and strategies for establishing institute-industry interface.
- Consultancy policy as approved by RAC.
- Guidelines for collaborate and interact with research laboratories, institutes and industry through RAC.
- Collaborative research facilities developed/ created inside the campus. Linkages/collaborations have actually resulted in formal MoUs and agreements

R&D Ethics in publishing research

Faculties of SRM MCET are aware on their research ethics and it will be followed all relevant ethical guidelines and regulations.

R&D activities for SRM MCET can include conducting research projects, collaborating with industry partners, publishing research papers, organizing conferences and workshops, offering research training and support, and patenting innovations. These activities can help to advance knowledge and contribute to the development of the college and our faculty members and students.



R&D MEETINGS

RESEARCH COMMITTEE MEETING

The first research committee meeting was conducted on 17 October 2023 in the conference hall of SRM Madurai College for Engineering and Technology. A panel of five-member committee team was constituted with the Principal as chairperson and three senior faculties from different departments along with the R&D coordinator as a convener.



Faculty Research Areas

Our esteemed faculty members cover diverse research domains, driving innovation across multidisciplinary fields. With a commitment to pioneering research, our faculty explores cutting-edge technologies, addresses global challenges, and contributes groundbreaking insights to academia and industry. Their collaborative endeavors aim to advance knowledge frontiers, promote innovation, and create solutions with far-reaching impacts, shaping the future landscape of science, technology, and societal development.

Name of Faculty	Dept	Research Area
Mrs. Angelin Lincy G	CIV	Geopolymer concrete
Ms. Anithatha	CSE	AI & ML
Dr.M.Sangeetha	CSE	Cloud Security
Dr. C.Callins Christiyana	CSE	Content Based Image Retrieval
Mr. Hari Nainyar Pillai	CSE	AIDS
Mrs. D. Ajitha	ECE	VLSI
Dr.P.Deepamangai	EEE	Control system, Inverters
Dr.C.Vimalarani	EEE	Solar PV systems, Power Electronics
Dr. J. Jeyaranjani	IT	Data science
Dr.S.J.Subhashini	IT	Distributed systems
Ms. M. Nithyakalyani	IT	Machine Learning
Dr.S.Chithiraivel	Library	Scientometric Analysis
Mr. Arunachalam	MECH	Lean Manufacturing
Mr. Muthumariappan	MECH	Manufacturing
Dr. K. Balamurugan	MECH	Advanced machining and optimization
Dr.A.N.Balaji	MECH	Composites materials
Dr.T.Premkumar	MECH	Composites materials
Dr.R.Ashok Kumar	MECH	Friction stir welding, composite materials

R&D THRUST AREAS

Name of Faculty	Dept	Research Area
Dr. P.Piramanayagam	S&H	Fuel Cell
Dr. S. Rajkumar	S&H	Nano water purity
Dr.D.Malathy	S&H	Bio-Inorganic chemistry, Nano Technology
Dr. R Vinoth	S&H	Literature
Mr. J.Bimal Roy	S&H	Literature
Dr. Naganathan	S&H	English Language Teaching Indian writing in English
Dr. S. Anitha	S&H	Nonlinear differential equation
Dr. T. Divya	S&H	Graph Theory
Dr. R. Prema Sumathi	S&H	Graph Theory
Dr. Senthamilselvi	S&H	Thin Flim
Dr. Gandhimathy	S&H	Solid state Physics and optical communication
Dr. O. Prakash	S&H	Solar Astro-physics



The table outlines research progress across different stages and platforms. It includes publications indexed in SCI/ SCIE and SCOPUS, conference presentations, books, and patents. It showcases published, accepted, submitted articles, and those under preparation. Additionally, it highlights ongoing extramural projects. This breakdown provides a comprehensive view of research output, demonstrating completed works and those in various stages of development, emphasizing the institution's diverse scholarly contributions and ongoing endeavors.

PUBLICATION DETAILS

The recent publication in the journal stands as a testament to meticulous research and academic rigor. Its inclusion in such a prestigious publication underscores its significance in advancing knowledge within the field. The recognition from this reputed platform not only validates the quality of the work but also amplifies its impact, setting a benchmark for excellence. This achievement reflects the dedication and expertise of the researchers, solidifying their position as leaders in their respective domains while contributing significantly to the scholarly discourse.

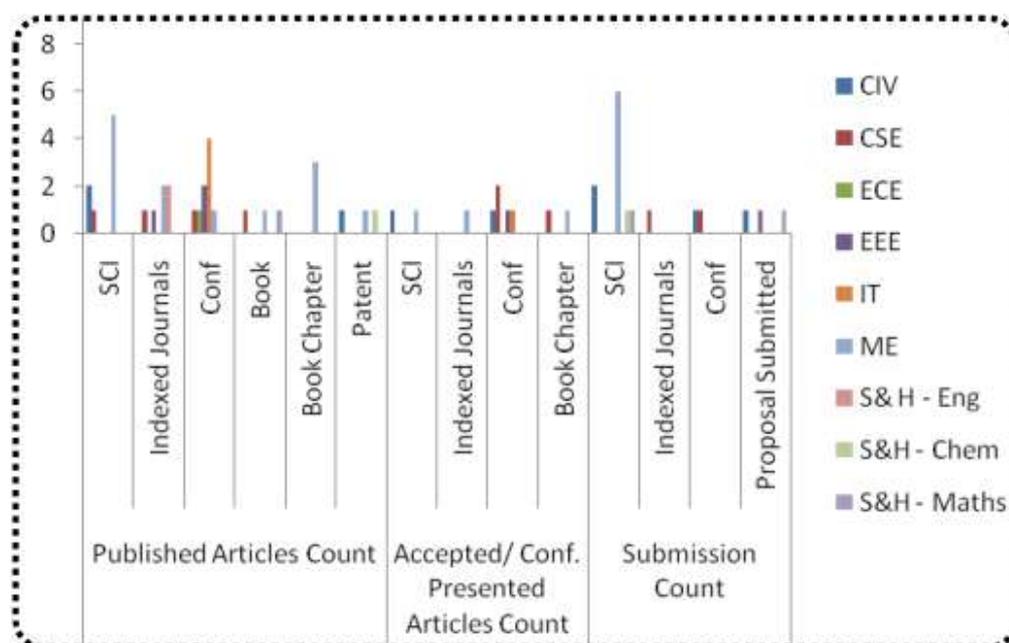
SCI/ SCIE	INDEXED JOURNAL	CONF	BOOK	BOOK CHAPTER	PATENT	EXTRAMURAL PROJECT SUBMITTED	ACCEPTED / REVISED ARTICLES	CUMULATIVE
11	6	11	4	3	3	3	10	51

RESEARCH ARTICLE & IT'S STATUS

As on Dec'23, Publication details

Departments	Published Articles Count						Accepted/ Conf Presented Articles Count				Submission Count			Proposal Submitted
	SCI	Indexed Journals	Conf	Book	Book Chapter	Patent	SCI	Indexed Journals	Conf	Book Chapter	SCI	Indexed Journals	Conf	
CIV	2					1	1		1		2		1	1
CSE	1	1	1	1					2	1		1	1	
ECE			1											
EEE		1	2						1					1
Eng		2												
IT			4						1					
ME	5	2	1	1	3	1	1	1		1	6			
S&H-Chem						1					1			
S&H-Maths				1							1			1
S&H-Phy	3		2	1							5			
Grand Total	11	6	11	4	3	3	2	1	5	2	15	1	2	3

Graph for research publication with its status



CURRENT TRENDS IN R&D

R&D are notably shaped by several key areas:

1. **AI and Machine Learning:** AI and machine learning continue to revolutionize various industries, from healthcare to finance, by enabling predictive analytics, automation, and enhanced decision-making.
2. **Biotechnology and Life Sciences:** Advancements in genomics, gene editing (like CRISPR), and personalized medicine are driving breakthroughs in healthcare, agriculture, and environmental sustainability.
3. **Renewable Energy and Sustainability:** R&D focuses on cleaner energy sources like solar, wind, and hydrogen, alongside advancements in energy storage and distribution systems to combat climate change.
4. **Cybersecurity:** With the increasing digitization of society, R&D efforts concentrate on developing robust cybersecurity measures to protect data, systems, and networks from evolving threats.
5. **Advanced Materials:** R&D is dedicated to creating new materials with unique properties for applications in electronics, construction, healthcare, and aerospace.
6. **Quantum Computing:** Quantum computing research aims to develop powerful computers that can solve complex problems beyond the capabilities of classical computers, impacting fields like cryptography, optimization, and drug discovery.
7. **Healthcare Innovation:** R&D focuses on telemedicine, digital health technologies, and innovative therapies (like mRNA vaccines) to improve healthcare accessibility, efficiency, and outcomes.
8. **Space Exploration and Technology:** Advancements in space technology and exploration, including satellite technology, asteroid mining, and Mars colonization, are gaining attention with private and government initiatives.
9. **Smart Cities and IoT:** Research is directed towards creating interconnected, efficient urban environments through IoT (Internet of Things) devices, data analytics, and sustainable infrastructure.
10. **Human-Machine Interaction:** Efforts concentrate on developing more intuitive and seamless interactions between humans and machines, including AR/VR, natural language processing, and brain-computer interfaces.

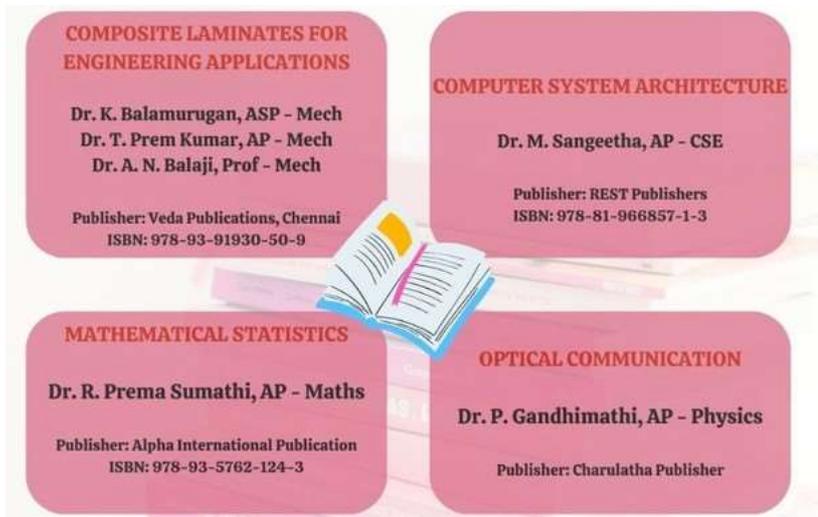
These trends are not isolated; often, they intersect and influence each other, driving innovation across various sectors. Additionally, emerging challenges, societal needs, and breakthrough discoveries can swiftly alter the direction of R&D efforts.

Anna University Recognized Supervisors @ SRM MCET

- Dr. S. Durairaj, Principal.
- Dr. A.N. Balaji, Professor, ME.
- Dr. K. Balamurugan, Associate Professor, ME, R&D Cell.
- Dr. S. Vimalarani, Associate Professor & Head, EEE.
- Dr. R. Ashok Kumar, Assistant Professor & Head, ME
- Dr. Deepamangai, Assistant Professor, EEE

FACULTY RECOGNIZATION

BOOK PUBLICATIONS



Faculty book publications signify an invaluable fusion of expertise and digital innovation, amplifying academic discourse. These publications encapsulate exhaustive research, cultivating knowledge dissemination across diverse disciplines. They bridge accessibility gaps, granting global readership access to specialized insights and scholarly contributions. These digital works bolster academia by sharing nuanced perspectives, advancing education, and perpetuating a culture of continuous learning. Faculty book publications stand as commendable contributions, propelling the evolution of knowledge and shaping the academic landscape in an ever-evolving digital sphere.

The dedication, commitment, and academic prowess have shone by this achievement. Our faculty accomplishment reflects not only mastery of the subject matter but also your diligence and perseverance throughout the course. The enthusiasm for learning and the effort you invested in comprehending complex concepts are commendable. We commend your exceptional performance and determination in undertaking inspiration to peers and a testament to the academic capability. Wishing you a continue success in your academic endeavors.

NPTEL CERTIFICATION



GLIMPSE OF OUR PUBLICATIONS I



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Formation of Exact Co-Ordination Equations With Proper Selection Of Design Variables For Active And Reactive Power Scheduling

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Abstract:

There are various methods for optimizing active and reactive powers scheduling for a Power System. The problem involves optimization of multiple objective functions with many constraints based on reality. Deciding proper design variables is important for any mathematical techniques to reach the best solutions. The solutions arrived by all the recent soft computing techniques for the problems were mostly validated by comparison with the results of conventional optimization techniques. The derivation



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Reuse of used paper egg carton boxes as a source to produce hybrid AgNPs-carboxyl nanocellulose through bio-synthesis and its application in active food packaging

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Urban solid waste
Bio-acid hydrolysis
In-situ generation process
AgNPs nanocellulose
Antibacterial properties

ABSTRACT

The proper disposal of disposable synthetic plastic food packaging materials presents a significant challenge for both the environment and the solid waste management community. To address this issue, an antibacterial-based high-strength bio-composite serves as the optimal alternative to conventional packaging materials. This study aims to produce a hybrid material of AgNPs-carboxyl cellulose nanocrystals (AgNPs-CGNCs), obtained from used egg carton boxes (UECBs), through bio acid hydrolysis and an in-situ generation process. Furthermore, AgNPs-carboxyl cellulose nanocrystals (AgNPs-CGNCs) will be synthesized through a combination of bio acid hydrolysis

Exploring The Role Of Art In Shaping

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RESEARCH ARTICLE

VLC channel characteristics and data transmission model in indoor environment for future communication: an overview

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Abstract There will be adverse effects on human health while the exposure of Radio Frequency (RF) waves is long term in the indoor environment. The old age people, children and patients will be badly affected, if their immune

Introduction There is increasing demand in the spectrum usage for pervasive connectivity and high capacity due to limited RF spec-

Waste and Resource Management

Research Article
Factor influencing construction waste generation: perspectives from India

Factors influencing construction waste generation: perspectives from India

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The factor influencing waste generation in the Indian construction industry has been examined in previous studies, along with the most significant factors generating waste. However, no study has answered the question: do different stakeholders have similar concerns? This study aimed to identify the significant factors generating waste from the multi-stakeholder perspectives. The factors generating construction waste were identified through a comprehensive literature analysis. A total of 38 construction waste-generating factors were identified and clustered into six different groups: design and drawing, procurement and construction methods and planning, human resources, the condition and external. A questionnaire survey was conducted to gather multi-stakeholder's

Synthesis, analysis and characterization of alpha-Fe₂O₃ nanoparticles and their applications in supercapacitors

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ABSTRACT

The development of iron-based supercapacitors has been gaining more attention in the field of energy storage applications due to their non-toxicity, abundance and low cost. In this paper, single phase hematite nanoparticles were synthesized by high temperature thermal decomposition method and directly served as electrochemical supercapacitor electrode material. Structural study (XRD) revealed the single-phase hematite nanoparticles formation with trigonal alpha-Fe₂O₃ structure. Morphological study (SEM) confirms ellipsoidal shape

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Effect of TiC/RHA on solid particle erosion of Al6061 hybrid composites fabricated through a 2-step ultrasonic-assisted stir casting process

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ABSTRACT
The development of high wear-resistant materials for defense application is found to be a challenging task among the researchers. The current study investigated the reinforcement effect of TiC and Rice husk ash (RHA) on Al6061 hybrid composites made using a two-step ultrasonic-assisted stir casting process. Four different Al6061 hybrid composites were fabricated with varying TiC and RHA concentrations (0, 5, 10 and 15 wt. %).

SCMS School of Engineering and Technology

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- 0.2.2 Surface refinement of AM processed alloy
- 0.3 Corrosion Behavior of Additive Reinforced Al6061
- 0.3.1 Tensile Behavior of Additive Reinforced Al6061
- 0.3.2 Microstructural Analysis
- 0.3.3 Grain Size Distribution
- 0.3.4 Surface Roughness
- 0.3.5 Conclusions
- References

1. INTRODUCTION
Additive manufacturing (AM) or 3D printing has become one of the emerging fields for the manufacture of 3D and complex components [1]. The additive manufacturing (AM) process involves the deposition of powder metals or liquid polymers in layer-by-layer method to obtain the finished object [2,3]. EBM method is most widely used for the production of complex shapes by layer by layer as per the 3D design which is fed into the system [4]. Hence the main advantage of AM when compared with other traditional manufacturing techniques are obvious; the foremost advantage is the ability to produce more complex components with very little material wastage. The other major advantage is low production time for complex shapes compared to conventional process. Because of the aforementioned advantage the AM process is widely used for the production of complex aerospacelike components [5]. In the recent past, additive manufacturing (AM) process has improved a lot and a variety of alloys can be developed using AM process. However, it is necessary to explore the different properties of AM manufactured alloys such as mechanical, tribological and corrosion resistant properties [6]. Even though there are many studies which help us understand the mechanical properties of AM manufactured metals and alloys, there are still many gaps to be filled in this area. This is the reason why this paper is published. This paper is intended to be reproduced or transmitted without publisher's prior permission. Violators will be prosecuted.

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Exploring The Role Of Art In Shaping

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SURPASSING GENERIC LIMITATIONS - A READING OF ANITA NAIR'S CHAIN OF CUSTODY

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Dr. BRAJESWARAN, Associate Professor, Department of English, Saraswathi Narayanan College, Perungudi, Madurai - 625022.

ABSTRACT
Novel as a classification assumes an essential part in connecting fiction and reality, and this obscuring of limit between the two, requires a cross examination of the meaning of the sort 'Novel' itself. Subsequently this paper inspects how Anita Nair's 'A Chain of Guardianship' rises above the generic limits to associate with the real world. At the same time, it looks to respond to relevant inquiries, for example, why Nair focuses on dealing of young women over young men, why she picked wrongdoing fiction as a sort to manage this issue, how her story strategy adds to the absolute impact of the novel and to interface with the truth against the foundation of genuine insights of child-trafficking.

Key words: child trafficking, generic boundary, crime mystery

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Investigation of mechanical and thermo-mechanical characteristics of silane-treated cellulose nanofibers from agricultural waste reinforced epoxy adhesive composites

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ABSTRACT
The issue of deforestation has been of considerable concern in recent years. So as to contribute to a solution to this problem a major aim of this study has been to develop a sustainable environment by using agricultural industry waste in structural applications rather than wood. In this way, the study employed cellulose nanofibers (CNFs) derived from rice husk as epoxy tougheners to solve issues related to landfill gas emissions and the simultaneous collection of organic waste. The impact of silane treatment on the physicochemical, thermal, and morphological properties of CNFs was examined. Compression moulding was utilized to make different loading levels of silane-treated CNF (SCNF) reinforced epoxy composites. The resultant nanocomposites were evaluated by using various physical, mechanical, chemical, and micro-structural characterization tests. Properties such as tensile strength, flexural strength, impact strength, glass transition temperature, visco-elastic characteristics, thermal stability, and so forth, were evaluated under controlled

Characterization Studies on Agro Waste Based Epoxy Hybrid Composites

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Abstract
The majority of the developed agricultural waste was eventually managed through different techniques like incineration and land filling, among others. Many studies and initiatives use agricultural waste to take benefit from its advantages. Rice husk is transformed into silica-rich Rice Husk Ash (RA) via a methodical process. Groundnut Shell Ash (GSA) particles are made by the traditional grinding method and are utilized to create hybrid epoxy composites. Compression moulding and hand layup are used to create five distinct components of RA and GSA in epoxy matrix in the following ratios: J1 (RA:GSA:Epoxy) (60:20:20), J2 (40:30:30), J3 (30:40:30), J4 (50:50:40), and J5 (20:40:40). The extracted materials' mechanical and morphological characteristics are investigated and presented. SEM was used for its primary investigation into nanoparticles. The highest values of the tensile and bending strengths for J3(20:40:40) are 39.56 MPa and 36.83 MPa, correspondingly. GSA particles assisted in the fibrous crack and was interfered by epoxy and RA, according to a microscopic analysis of the fractured areas.

Exploring The Role Of Art In Shaping

ENVIRONMENTAL RISK FACTORS ANALYSIS FOR BRAIN TUMOR USING ADAPTED CHICKEN SWARM OPTIMISATION

J. Anitha Vijayalakshmi, M. S. Aggrawal, S. Chelloubar, G. S. Chintamani

ABSTRACT
Primary cancers of the neurological system in adults are uncommon overall, although their prevalence is rising in several European nations. While several environmental triggers are currently looked at as possible risk factors, scientific proof is still missing for the vast majority of them. Here, we summarize research on the possible role of surroundings during the carcinogenesis of brain cancers, including the effects of certain harmful substances (nitrosamines, insecticides, pollutants in the air, as well as radiofrequency electromagnetic radiation) in the development of primary nervous system tumors. Ionizing radiation to the brain, particularly in children, is a known carcinogen. Although prenatal exposure to environmental contaminants like nitrogen oxides or pesticide has been linked to an increased incidence of brain cancer, the available research is conflicting. There is conflicting evidence linking exposure to outdoor pollution to an increased incidence of brain tumors in major future research. The association between mobile phone use and acoustic neuroma is growing strong, however the influence on the likelihood of developing gliomas as well as meningioma in adults hasn't yet been demonstrated. The impact of pesticides on kids has not been studied as of now. Studies in both developing and wealthy nations demonstrate that an incorrect diagnosis causes the deaths of many people who are suffering from brain tumors. A novel hybrid algorithm is proposed in this research to enhance segmentation precision. The study plan consists of three primary procedures. In the first stage, noise is removed from the input image using the Adaptive weighted mean filter (AWMF). It adds in the noise to a varied direction and scale, generates a wide variety of reactions for the Adaptive Weighted Mean Filter (AWMF), and leaves the edges alone. The second stage involves the creation of a hybrid approach, which employs ACO (Adapted Chicken Swarm Optimization) and Optimized Fuzzy C-Mean (OFM) clustering. In addition, for the best clustering results, OFM was done only once. In the third stage, the non-tumor portion is excised using a morphological procedure. The results demonstrate that a segmentation accuracy of 97.0% can be attained using the

GLIMPSE OF OUR PUBLICATIONS II

Student
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Research Article Effect of Varied Cashew Nut Ash Reinforcement in Aluminum Matrix Composite

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In the present article, cashew nut biochar (CNB), an agricultural waste, is used as reinforcement in Al6061 by the bearing process. The primary XRD study on CNB confirms the presence of SiO₂, Al₂O₃, iron-rich ferrite, MgO, and Mn, which

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Research Article Microdrilling Studies PLA/Bronze Composite Samples Printed Using Fused Deposition Model

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EFFECT OF CELLULOSE NANOPARTICLES FROM RED COCONUT PEDUNCLE WASTE AS REINFORCEMENT IN EPOXY COMPOSITE SHEETS

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Organic filler-reinforced thermosetting polymer composites, when combined with fibers, nanofibers, and their respective alloys, offer a broad spectrum of applications. Extensive research has been dedicated to enhancing the intrinsic mechanical and thermal properties of composite materials, with a particular focus on environmentally friendly, recyclable, and biodegradable reinforcements. As a result, the present study involved the preparation of composites by amalgamating cellulose nanofibers (CNFs) sourced from agricultural waste with epoxy to augment the characteristics of polymer composites. The CNF-reinforced epoxy composites were fabricated via the compression molding process, incorporating filler loadings ranging from 1% to 3% by weight. A comprehensive experimental investigation was conducted on the mechanical properties (tensile, flexural, impact, and hardness) and thermal properties (their deflection temperature) of these composites. Additionally, scanning electron microscopy (SEM) was employed to examine the surface characteristics and fractured surfaces of the composites. The results revealed that, among the produced composites, those containing 2 wt% CNFs in the epoxy exhibited superior mechanical properties, outstanding tensile and flexural strengths of 42.8 ± 2 MPa and 106.1 ± 1.6 MPa, respectively, along with an impact strength of 11.9 ± 2.5 kJ/m² and a hardness rating of 21.2. Notably, these 2 wt% CNF-reinforced epoxy composites exhibited a 7% increase in the heat deflection temperature, compared to the pristine epoxy resin.

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DISCOVERING WOMAN SELF IN ANITA NAIR'S LADIES COUPE: AN ANALYSIS

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Abstract
The discussion over the place of women, their condition in their family and society in general, has contributed in giving them many freedoms prior denied. By the by, the fundamental freedoms for ladies are as yet insufficient to say that their position is equivalent to their male partners. In spite of the fact that ladies by and large, are supposed to be in preferable situations over their prior partners, however, they are still in the underestimated position, in light of the fact that the multi-layered orientation designs work distinctively on ladies of various classes and foundations through culture. By taking a gander at the women characters from two unique social foundations, this paper endeavours to have a superior comprehension of their underestimation through Anita Nair's Ladies Coupe. This paper plans to concentrate on the situation of women who are called privileged by the cultural standards yet, they are underestimated. In Anita Nair's Ladies Coupe, the hero Akhila, an autonomous unmarried woman, goes on an excursion alone to Kanyakumari to track down a spot for herself. The text differentiates the difficulties of living alone setting it against the ladies encircled by human connections. The goal of this paper is to concentrate on how human connections have turned into a device to women's mistreatment and furthermore what significant job travel plays in the turn of events and acknowledgment of 'Self'. Human mind, being to a great extent impacted by culture, has numerous a period assumed an urgent part in misleading people themselves, particularly, the ladies. In this way, in a way it remembers the profound social impacts for human mind that prompts the persecution of a specific gathering and proposes choices to manage them.

Keywords: Patriarchy, Women, Psyche, Marginalization, Self, Travel, Privileged

The goal of this paper is to concentrate on the situation of women through the female

Shanmuga Sundar Dhanabalan and Ann Thirumungam

Chapter 5 Fabrication techniques for printed and wearable electronics

G R Raghav, M S Anoop, P C Jayadevan, R Ashok Kumar, K J Nagarajan and D Muthukrishnan

In the modern era, smart devices play an important role in day-to-day life, and their widespread applications are getting huge demand globally. Innovation in the field of the Internet of Things paves new possibilities for future endeavors of mankind. Printed electronics is a sustainable way for achieving the widespread popularity of smart devices around the world and this technology is in its nascent stage. In the current scenario, massive amounts of e-waste generated due to the digital revolution and the disposal of e-waste poses a serious challenge to the environment. Printed electronics

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E-Health Records Stored Over the Cloud with Automated Medication Reminders for Enhanced Patient Care

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Exploring The Role Of Art In Shaping Historical Narratives

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Vehicle Theft Detection using Neural Pattern Recognition

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Abstract - Finding stolen cars is becoming increasingly important in many urban regions. An automated system for locating stolen cars can recognize vehicle numbers without the need for human intervention. This work proposes a vehicle theft detection system based on neural pattern recognition, gaussian filter, and equilibrium optimization. The proposed architecture has significant speedup and higher accuracy rates. The proposed number plate recognition method has a maximum accuracy rate of 94% and an average reduction in the processing time of 32%. Pattern recognition is the process of detecting stimuli and identifying them.

Keywords - Vehicle theft detection, neural network, pattern recognition, neural network, vehicle theft detection.

A Review on Alzheimer's Disease Detection using Machine Learning

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Abstract - Alzheimer's disease is a progressive and irreversible brain disorder affecting millions worldwide. The timely detection of Alzheimer's Disease (AD) is essential for the effective management and treatment of the disease. Machine Learning (ML) approaches have shown promising results in detecting AD at an early stage. This review article provides an overview of the recent developments in the application of ML techniques for AD detection. Also, discusses the application of certain image processing, feature extraction, and ML techniques for detecting AD. The article covers various ML algorithms and their performance in detecting AD with different data sources, such as MRI, PET, etc. with their advantages and limitations. Overall, this research study demonstrates the potential of ML approaches in

abnormal accumulation of neurofibrillary tangles and amyloid plaques, which gradually lead to cognitive decline, memory loss, and other behavioral symptoms. It is clinically known as a chronic neurodegenerative disorder that is responsible for severe personality changes and difficulties in carrying out even the simplest tasks [1]. Unfortunately, AD is the 4th leading cause of death globally, following cardiovascular disease, cancer, and stroke, as per recent statistics. This not only causes difficulties for patients in their daily tasks but also poses challenges in recognizing their loved ones.

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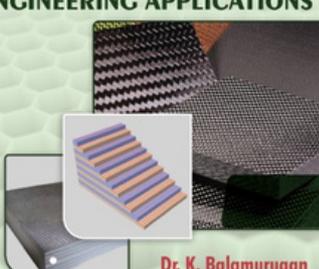
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Dr. K. Balamurugan, affiliated to the Department of Mechanical Engineering, SRM Madurai College for Engineering and Technology, TN, India, since May 2023. He completed M.E. program from Thiagarajar College of Engineering, Madurai, India (2006) and Ph.D. from Anna University, Chennai, India (2008) and served his career at Anna University (University of TN (2008-2017)) and subsequently earned Doctoral Degree from the same University (2018-2022). He has been an active member of various professional organizations, his publications/ presentations in International conferences, 12 papers published/Conc. and 4 keynote lectures presented. He has also been invited as a guest lecturer in various engineering colleges. He has been a research scholar, and SA Ph.D. scholar and supervised 10 post-graduate students. He has been an reviewer and editorial board member. Currently, he is actively participating in the various international conferences and symposia of international companies. His major areas of interest include composite materials, characterization of composites, mechanical properties of composites, and their applications in various industries. Further research is being carried out in the area of composites and their applications.

Dr. A.N. Balaji obtained his BE Degree with distinction in Mechanical Engineering from K.J.Somaiya College of Engineering in 1994, M.E. Degree with distinction in Production Engineering from Thiagarajar College of Engineering in 2001 and Ph.D. Degree in Mechanical Engineering from Anna University, Chennai in 2008. He has been an active member of various professional organizations, his publications/ presentations in International conferences, 12 papers published/Conc. and 4 keynote lectures presented. He has also been invited as a guest lecturer in various engineering colleges. He has been a research scholar, and SA Ph.D. scholar and supervised 10 post-graduate students. He has been an reviewer and editorial board member. Currently, he is actively participating in the various international conferences and symposia of international companies. His major areas of interest include composite materials, characterization of composites, mechanical properties of composites, and their applications in various industries. Further research is being carried out in the area of composites and their applications.

Dr. T. Premkumar, currently affiliated to the Department of Mechanical Engineering, SRM Madurai College for Engineering and Technology, TN, India, since May 2023. He completed M.E. program from Thiagarajar College of Engineering, Madurai, India (2006) and Ph.D. from Anna University, Chennai, India (2008) and served his career at Anna University (University of TN (2008-2017)) and subsequently earned Doctoral Degree from the same University (2018-2022). He has been an active member of various professional organizations, his publications/ presentations in International conferences, 12 papers published/Conc. and 4 keynote lectures presented. He has also been invited as a guest lecturer in various engineering colleges. He has been a research scholar, and SA Ph.D. scholar and supervised 10 post-graduate students. He has been an reviewer and editorial board member. Currently, he is actively participating in the various international conferences and symposia of international companies. His major areas of interest include composite materials, characterization of composites, mechanical properties of composites, and their applications in various industries. Further research is being carried out in the area of composites and their applications.

COMPOSITE LAMINATES FOR ENGINEERING APPLICATIONS

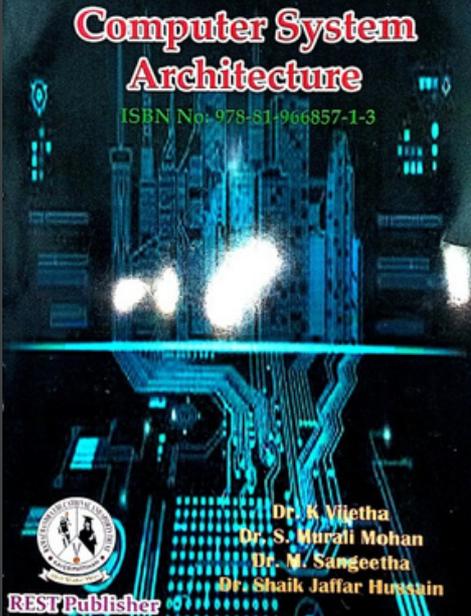


Dr. K. Balamurugan
Dr. A.N. Balaji
Dr. T. Premkumar

Veda Publications

Computer System Architecture

ISBN No. 978-81-966857-1-3



Dr. K. Vijetha
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Dr. Shaik Jaffar Hussain

REST Publisher

AUTHORS PROFILE

Dr. P. Gandhimathi, M.Sc., M.A., M.Phil., Ph.D. specializes in Social and physical, Electronics, Quantum physics, Optical communication, and microfluidic fluids. Over 1000 books have been authored by her. Numerous articles published in reputed journals. As an NSI program officer, she has won the award for best NSI program officer, 17+ years of engineering college experience. At SRM Madurai College for Engineering and Technology, presently working as an Assistant Professor in the physics department.

Dr. P. Anthoniammal, M.Sc., B.Ed., M.Phil., Ph.D. is a Professor in the Department of Physics, Pottapalayam Engineering College, Chennai, India. She has 20 years of teaching and 10 years of research experience. She is specialized in various subjects such as Nonlinear, Nanotechnology, Quantum mechanics, Optical communication and Quantum optics. She has also authored an International book "Size and Shape effect on melting point of nanoparticles" (Gambot Academic Publishing) and published over 100 international journal papers. She has been awarded with "Best Teacher award" in the year 2016.

B. Anitha Vijayalakshmi got her B.E. degree in Electronics and Communication Engineering from Sri Rajarajam Engineering College, Chennai in 2002 and M.E. degree in Applied Electronics from Anna University, Chennai in 2005. She received her Ph.D. degree in the area of optical Communication from Karunya Institute of Technology and Sciences, Coimbatore in 2020. Presently she is working in Saravali School of Engineering, Chennai as Professor. Her research area interests are optical communication and wireless communication. She has more than 20 publications in reputed journals and conferences.

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Optical Communication



Dr. P. Gandhimathi
Dr. P. Anthoniammal
B. Anitha Vijayalakshmi

CHANGRAJA PUBLICATIONS

Author's Profile

Dr. R. Prema Sumathi is an Assistant Professor, Department of Mathematics at SRM Madurai College for Engineering and Technology, Madurai. Her research areas of research interest in Graph Theory and its applications. She has published her papers in various international journals. She has been an active member of various professional organizations, her publications/ presentations in International conferences, 12 papers published/Conc. and 4 keynote lectures presented. She has also been invited as a guest lecturer in various engineering colleges. She has been a research scholar, and SA Ph.D. scholar and supervised 10 post-graduate students. She has been an reviewer and editorial board member. Currently, she is actively participating in the various international conferences and symposia of international companies. Her major areas of interest include composite materials, characterization of composites, mechanical properties of composites, and their applications in various industries. Further research is being carried out in the area of composites and their applications.

Dr. A. Muthulakshmi is an Assistant Professor (2015) in the Department of Mathematics at SRM Madurai College for Engineering and Technology, Madurai. Her research areas of research interest in Graph Theory and its applications. She has published her papers in various international journals. She has been an active member of various professional organizations, her publications/ presentations in International conferences, 12 papers published/Conc. and 4 keynote lectures presented. She has also been invited as a guest lecturer in various engineering colleges. She has been a research scholar, and SA Ph.D. scholar and supervised 10 post-graduate students. She has been an reviewer and editorial board member. Currently, she is actively participating in the various international conferences and symposia of international companies. Her major areas of interest include composite materials, characterization of composites, mechanical properties of composites, and their applications in various industries. Further research is being carried out in the area of composites and their applications.

Dr. S. Rajeev Gandhi is an Assistant Professor (2015) in the Department of Mathematics at SRM Madurai College for Engineering and Technology, Madurai. Her research areas of research interest in Graph Theory and its applications. She has published her papers in various international journals. She has been an active member of various professional organizations, her publications/ presentations in International conferences, 12 papers published/Conc. and 4 keynote lectures presented. She has also been invited as a guest lecturer in various engineering colleges. She has been a research scholar, and SA Ph.D. scholar and supervised 10 post-graduate students. She has been an reviewer and editorial board member. Currently, she is actively participating in the various international conferences and symposia of international companies. Her major areas of interest include composite materials, characterization of composites, mechanical properties of composites, and their applications in various industries. Further research is being carried out in the area of composites and their applications.

Dr. B. Vasudevan is an Assistant Professor (2015) in the Department of Mathematics at SRM Madurai College for Engineering and Technology, Madurai. Her research areas of research interest in Graph Theory and its applications. She has published her papers in various international journals. She has been an active member of various professional organizations, her publications/ presentations in International conferences, 12 papers published/Conc. and 4 keynote lectures presented. She has also been invited as a guest lecturer in various engineering colleges. She has been a research scholar, and SA Ph.D. scholar and supervised 10 post-graduate students. She has been an reviewer and editorial board member. Currently, she is actively participating in the various international conferences and symposia of international companies. Her major areas of interest include composite materials, characterization of composites, mechanical properties of composites, and their applications in various industries. Further research is being carried out in the area of composites and their applications.

MATHEMATICAL STATISTICS

Dr. R. PREMA SUMATHI
Dr. A. MUTHULAKSHMI
Dr. S. RAJEEV GANDHI
Dr. B. VASUDEVAN

Alpha International Publication (AIP)
1088
978-93-5762-124-2

PHD. AWARD SHIP

THESIS CERTIFICATE

This is to certify that the thesis entitled "STUDIES ON CRYOGENIC TREATED WC-Co TOOL PERFORMANCE AT DRY MACHINING CONDITIONS" Submitted by ARUNKARTHIKEYAN K to the Vignan's Foundation for Science, Technology and Research (Deemed to be University), Vadlamudi, Guntur District, AP for the award of the degree of **Doctor of Philosophy** is a bonafide record of the research work done by him under my supervision. The contents of this thesis, in full or in parts, have not been submitted to any other Institute or University for the award of any degree or diploma.



Dr. K. BALAMURUGAN

Research Supervisor,
Former, Faculty of Mechanical Engineering,
Vignan's Foundation for Science, Technology and Research (Deemed to be University) Vadlamudi, Guntur-522213, A.P, India.

Currently working as Faculty of Mechanical Engineering,
SRM Madurai College for Engineering and Technology,
Pottapalayam 630612, TN, India.


Thesis Examiner
Dr. I. A. PALANI
Professor,
Department of Mechanical Engineering,
IIT Indore.

Place: Vadlamudi
Date: 12-06-2023

GLIMPS OF R&D EVENTS - I

6 DAYS FDP FROM 21- 26-AUG2023 & 4-9 DEC 2023



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FROM, AUG 21 - 26, 2023

ONLINE EVENT TEAM OF EXPERTS TO SHARE THEIR KNOWLEDGE UNDER DIVERSED STREAMS

NATIONAL LEVEL FACULTY DEVELOPMENT PROGRAM

MULTIVERSE APPROACH TO UPSKILL PROFESSIONALS IN CONTEMPORARY ENVIRONMENT

We are pleased to announce you that the Department of Mechanical Engineering and R&D Cell organize One-week National Level multidisciplinary FDP program by a team of experts to share their knowledge under various streams and its importance in the contemporary environment. The multiverse approach is the concept of using diverse educational methods, strategies, work-life balance, well-being, and perspectives to meet the demands.

SPECIAL INVITEE
Dr. Jagadeesha T, Dept of Mech Engg, NIT- Calicut
Dr. P. Victor Paul, Dept of CSE, IIT Kattayam, Kerala

Event Timings
Slot - 1: 10:00 AM to 11:00 AM
Slot - 2: 12:00 PM to 03:00 PM
Slot - 3: 03:00 PM to 04:00 PM

EXPERT SPEAKERS

 Dr. H. Kannanabesopathy Head of R&D, Department of Engg, MADRAS Engineering College, TN	 Dr. V. Srikanthadasan Head, Dept. of Polymer Science and Materials/Chemistry, Vignana Vinayaka AP	 Dr. M. Suman Head, Dept. of IIT, Vignana Vinayaka Institute of Technology & Science, AP	 Mr. Ashok. P Dept of CSE, Sri Sivasubramanian Technology, TN	 Dr. M. Venkatesh Kumar Head, SRM Institute of Information Technology, TN
 Dr. Shankar Prasad Head of Mechanical Engineering, MADRAS Engineering College, AP	 Dr. M. Gopinath Head, Dept. of Mechanical Engineering, Vignana Vinayaka AP	 Dr. S. Ramasubramanian Dept. of Mechanical Engg, MADRAS Engineering College, TN	 Ms. Krishna Nivedita. S.B SRM Institute of Information Technology, TN	 Dr. N.S. Suresh Head, SRM Institute of Information Technology, TN
 Mr. K. Velupillai Head of R&D, SRM Institute of Information Technology, TN	 Dr. M. Venkata Pavan Head of Mech Engg, SRM Institute of Information Technology, TN	 Dr. P. Dharmasubramanian Head of Mech Engg, SRM Institute of Information Technology, TN	 Dr. C. Suresh Kumar Head of Mech Engg, SRM Institute of Information Technology, TN	 Mr. T. Srinivasan Head of Mech Engg, SRM Institute of Information Technology, TN

For Any further details Contact
Dr. K. Balasubramanian
ASP / Dept. of Mechanical Engg
SRM MCET
kbalasub@gmail.com
7659923265

Important Dates
FDP dates: Aug 21-26, 2023
Event Venue: Google meet Platform
Last date of Registration: 20.08.2023 (5 PM)

Free Registration
<https://forms.gle/UBn6g1Bjrc11Pn0A>
FOR WHATSAPP CHAT, PLEASE JOIN
<https://chat.whatsapp.com/Cv8930303030303030>
e-Certificate for active participants

The FDP program on "Cutting-Edge Developments and Research Frontiers in Mechanical Engineering" is a targeted initiative offering participants a unique opportunity to learn about the most recent advancements in the field. The programme seeks to provide learners with a thorough awareness of future trends by concentrating on advanced developments in mechanical engineering, with a particular emphasis on 3D printing, innovative materials, robotics, IoT in Mechanical Systems, and industrial engineering.



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R & D Cell in association with ISTE Staff Chapter Organizes
National Level One Week Faculty Development Program (Online) on
Cutting-Edge Developments and Research Frontiers in Mechanical Engineering
4th - 9th December 2023

Resource Speakers

 Dr. Kishore Kumar N (IIT) Science Study Head, Liaison Officer, Association of Mechanical Engineers and Manufacturing Engineers and ISTE	 Dr. V. Jyothi Associate Professor, Department of Mechanical Engineering, Anna University, Chennai, Tamil Nadu, India	 Dr. B. Shashank Kumar Associate Professor, Department of Mechanical Engineering, SRM Institute of Information Technology, Chennai
 Dr. S. Davis Ashok Professor, Department of Design and Automation, IIT Madras, Chennai	 Dr. S. Anand Kumar Associate Professor (senior), School of Computer Science and Engineering, IIT Madras, Chennai	 Dr. S. Sathya Associate Professor, Department of Mechanical Engineering, Government College of Engineering, Tirunelveli, Tamil Nadu
 Dr. M. Uthayakumar Professor, Department of Automobile Engineering, MADRAS Engineering College, TN	 Dr. Lakshmi Parvathi Head of Engg, Department of Computer Science, MADRAS Engineering College, Tirunelveli, Tamil Nadu	 Dr. T. J. Raj Thilak Senior Lecturer / Engineer - II, MADRAS Engineering College, Tirunelveli, Tamil Nadu
 Dr. K. Pandeyanjan Associate Prof., Department of Mechanical Engineering, SRM Institute of Information Technology, Chennai	 Dr. S. Thirumala Kumar Associate Professor, Department of Mechanical Engineering, SRM Institute of Information Technology, Chennai	 Dr. S. S. Raghav Associate Professor, Department of Mechanical Engineering, SRM Institute of Information Technology, Chennai

Registration Details
There is no registration fee to attend this program. Program will be conducted through online mode only.
Platform: Google meet
Registration Link:
<https://forms.gle/UBn6g1Bjrc11Pn0A>
e-Certificate for active participants

Target audience:
The program is open to all Faculty Members / Research Scholars / PG Students / Employees / Industry Persons.

Event Timing:
Slot 1: 2:00PM to 3:00PM
Slot 2: 3:30PM to 4:30PM

Organizing Secretary:
Dr. A. N. Balaji
Professor / Mech, SRM MCET

Co-Convenor:
Dr. K. Balasubramanian
ASP / Mech, SRM MCET

Convenor:
Dr. S. Dwaipai
Principal, SRM MCET

Objective & Scope:

- To equip faculties to meet the diverse needs of their students.
- To prepare faculty to the changing demands of the contemporary work culture.
- To educate teachers about the importance of self-care and maintaining a healthy lifestyle.
- To contribute positively to the overall improvement of the education system.

GLIMPS OF R&D EVENTS I

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Department of Mechanical Engineering and R&D Cell
Jointly Organize a Webinar on

A Hands-On Training to Modeling and Analyzing Trusses, Cantilever Beams, and Simply Supported Beams

RESOURCE PERSON
Dr. G.S.SAMY
Associate Dean Research and Development, Academy of Maritime Education and Training, (AMET Deemed to be University), Kanathur, Chennai

29-09-2023, at 4:00 PM
Hosting Platform : Google Meet
Registration Link : <https://forms.gle/LKZnJFDgc3bGyYh7>

We cordially invite all Faculties to join the Webinar..!

Coordinator: Dr. K. Balamurugan, ASP, MECH
Co-Convenor: Dr. R. Ashok Kumar, HoD, IC - MECH
Convenor: Dr. S. Durairaj, Principal

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Department of Mechanical Engineering Organizes a Webinar on

Research Challenges & Opportunities

SPEAKER
DR. M. UTHAYAKUMAR
PROFESSOR,
DEPARTMENT OF MECHANICAL ENGINEERING
KALASALINGAM UNIVERSITY

19-05-2023, at 03:00 PM
Hosting Platform : Google Meet
Registration Link : <https://meet.google.com/nqq-qsch-ttf>

We cordially invite all Faculties to join the Webinar..!

COORDINATOR(S): Dr. K. BALAMURUGAN, ASSOCIATE PROFESSOR, MECHANICAL ENGINEERING
CONVENER: Dr. S. DURAIRAJ, PRINCIPAL

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Department of Mechanical Engineering & R and D Cell Jointly Organizes a Webinar on

Materials for Auto Industries

Dr. KARTHIKEYAN R
Associate Professor,
Department of Automobile Engineering,
PSG College of Technology,
Coimbatore, Tamil Nadu.

14-06-2023, at 03:00 PM
Hosting Platform : Google Meet
Registration Link : <https://forms.gle/cLjK9CkPUg6o659>

We cordially invite all Faculties to join the Webinar..!

Coordinator(s): Dr. K. Balamurugan, ASP, Mechanical Dept, R and D Cell
Convenor: Dr. S. DURAIRAJ, PRINCIPAL

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Department of Mechanical Engineering & R and D Cell Jointly Organizes a Webinar on

Polymer Materials & Research

Dr. G. KALUSURAMAN
Associate Professor
Department of Mechanical Engineering
Kalasalingam University

17 JUNE 2023 03:00 PM-04:00 PM Online

Hosting Platform : Google Meet
Registration Link : <https://forms.gle/XjUVfvmUg3ubzwN7>

We cordially invite all Faculties to join the Webinar..!

Coordinator: Dr. K. Balamurugan, ASP, Mechanical Dept, R and D Cell
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AN INTERACTIVE SESSION ON
"NAAC NEW FRAMEWORK AND EXPECTATIONS"

Dr. Y. Jyothii,
Asso. Prof & Asso. Dean
Vignan University

No Registration Fee & Certificate

21 April 2023 11:00 Am - 12:00 Pm

Registration Link: <https://forms.gle/taDzDcTfV9z8eaYUz>

Coordinator: Dr. K. Balamurugan, Department of Mechanical Engineering
Convenor: Dr. S. Durairaj, Principal

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Department of Mechanical Engineering and R&D Cell
Jointly Organize a webinar on

RESEARCH SCOPE IN FUNCTIONAL GRADED METAL MATRIX COMPOSITES

Dr. S. Suresh Kumar
Associate Professor,
Department of Mechanical Engineering
Kalasalingam Academy of Research and Education
Krishnan koil, Tamil Nadu.

25th November, 2023
03:30 pm onwards

Hosting Platform : Google Meet
G Meet Link : <https://meet.google.com/efj-fffj-djr>

All are cordially invited..!

Coordinator: Dr. K. Balamurugan, ASP/MECH and R&D Cell
Co-Convenor: Dr. R. Ashok Kumar, HoD - MECH
Convenor: Dr. S. Durairaj, Principal

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SRM MCET & ISHRAE Student Chapter Jointly Organize a Webinar on

ISHRAE STUDENT CHAPTER
An awareness to Faculty Members

SPEAKER
DR. G. KUMARAGURUPARAN
PRESIDENT ELECT - ISHRAE MDU & PROFESSOR / MECHATRONICS, TCE

13-05-2023, at 9:45 AM
Hosting Platform : Google Meet
Registration Link : <https://forms.gle/hz2nM9R4TdmY2K6>

We cordially invite all Faculties to join the Webinar..!

COORDINATOR(S): Dr. R. Ashok Kumar, AP/MECH., Mrs. Angelin Lucy, TRA/CIVIL
CONVENER: Dr. S. DURAIRAJ, PRINCIPAL

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Webinar on
NATIONAL EDUCATION POLICY AND REFORM IN HEI'S

Dr. M. Ramakrishna
Dean IQAC
VIGNAN University,
Guntur, AP.

No Registration Fee

10 April 2023 10:00 Am - 11:00 Am

Registration Link: <https://docs.google.com/forms/d/ejF8eD1Se7F500mG1v9y00m9t8a9a9w9h1L6tcr1Ww72026/viewform?usp=sf-link>

Coordinator: Dr. K. Balamurugan, Department of Mechanical Engineering
Convenor: Dr. S. Durairaj, Principal

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Department of Mechanical Engineering Organizes a Webinar on

Intellectual Property Rights

SPEAKER
MR. CEDRIC JOSEPH MANUEL
CEO, INTELLIGENCE
CHENNAI

28-04-2023, at 3:00 PM
Hosting Platform : Google Meet
Join Link : <https://forms.gle/GoEcuMm5S43rk99>

We cordially invite all Faculties to join the Webinar..!

COORDINATOR: Dr. K. Balamurugan, DEPARTMENT OF MECHANICAL ENGINEERING
CONVENER: Dr. S. DURAIRAJ, PRINCIPAL

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Webinar on
IMPORTANCE OF RESEARCH IN ACCREDITATION PROCESS

Dr. K. Venkatesan,
Professor,
VLITS, Guntur.

No Registration Fee & Certificate for Active Participants

14 April 2023 03:30 - 04:30 PM

Registration Link: <https://forms.gle/4uXK0L76b9m9EYv6d>

Coordinator: Dr. K. Balamurugan, Department of Mechanical Engineering
Convenor: Dr. S. Durairaj, Principal

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Department of Mechanical Engineering & R&D Cell

SAE INDIA
Society of Automotive Engineers INDIA

SAE CLUB AWARENESS PROGRAM
16th October, 2023

MEET OUR SPEAKER
Dr. B. KANNAN, SAE INDIA - Industry Division, Chennai
Dr. R. VARUN KUMAR, SAE INDIA - Industry Division, Chennai
Mr. KUMARAN, Assistant Professor, PONDICHERRY

12:10 pm - 1:20 pm
Auditorium, SRM MCET

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Department of Mechanical Engineering & R and D Cell Organizes a Seminar on

An Interactive session on Enhancement of Research Culture

Dr. K. BALAMURUGAN
Associate Professor &
Research and Development Cell
SRM MCET

27-06-2023, at 03:00/PM Onwards
Venue : Conference hall

All Faculties are cordially invited..!

Convenor: Dr. S. DURAIRAJ, PRINCIPAL

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GLIMPS OF R&D EVENTS II

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Department of Civil Engineering
Organizes a Webinar
on
3D MODELLING ON SKETCHUP

SPEAKER
Dr.UDHAYASANKAR RAMASAMY
Managing Director
B.T.R CONSTRUCTION
ERODE

27-05-2023, at 11 to 12 PM
Hosting Platform : Google Meet
Meeting Link : <https://meet.google.com/ixj-gqfg-ods>

We cordially invite all Faculties and Students to join the Webinar..!

COORDINATOR
Ms.R.VENKATA LAKSHMI
AP - CIVIL

CONVENER
Dr. S. DURAIRAJ
PRINCIPAL

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Pottapalayam, Sivagangai District - 630 632

COLLEGE CODE : 9111 COUNSELLING CODE: 5842

Department of Mechanical Engineering
Organizes a Webinar
on
Future of Electric Vehicle

DR.D.CHELLAGANESH
Plant Operation Head
Vike Bike India Pvt Ltd
Theni

27-06-2023, at 2.00 PM
Hosting Platform : Google Meet
Scan to Register: 

We cordially invite all Faculties to join the Webinar..!

Coordinator
Dr. T.Premkumar, AP/MECH

Convener
Dr. S. DURAIRAJ
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Department of Information Technology
Organizes a Webinar
on
Robotics : A Promising Area of Research


DR.J.JANE RUBEL ANGELINA
Associate Professor,
School of Computing
Kalasalingam Academy of Research
and Education

23-06-2023, at (Time) 11.00AM to 12.00 Noon
Hosting Platform : Google Meet
Registration Link : <https://forms.gle/m54iN48gDKLWzTG8>

We cordially invite all Faculties and Students to join the Webinar..!

Coordinator
Dr. S.J.Subhashini,
Associate Professor / IT

Convener
Dr. S. DURAIRAJ
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Swayam - NPTEL Local Chapter
Organizes a Webinar
on
Recent Trends in Composite Materials

SPEAKER
DR.S.JAYABAL
PROFESSOR AND HEAD
DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING
THANJAVUR

28-05-2023, at 11.00 AM to 12.00 Noon
Hosting Platform : Google Meet
Registration Link : <https://forms.gle/TbknuceULTCF9bC6>

We cordially invite all Faculties and Students to join the Webinar..!

COORDINATOR
Dr. A. N. BALAJI
PROFESSOR
MECHANICAL ENGINEERING

CONVENER
Dr. S. DURAIRAJ
PRINCIPAL

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Department of Physics
Organizes
ONLINE TALENT HUNT
GENERAL KNOWLEDGE

17-05-2023, at 2.00 - 3.00 PM
Registration Link : www.tinyurl.com/srmmcet-gkl

- Registration is compulsory
- E-Certificate for all the participants

COORDINATOR(S)
Dr. O. PRAKASH, AP/ PHYSICS
DR. MR. MANIKANDAN, AP/PHYSICS

CONVENER
Dr. S. DURAIRAJ
PRINCIPAL

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Swayam - NPTEL Local Chapter
Organizes a Webinar
on
IoT and its Applications

Dr.R.Alageswaren
Associate Professor
School of Computing
SASTRA Deemed University
Thanjavur

11-06-2023, at 11.00AM to 12.00 Noon
Hosting Platform : Google Meet
Registration Link : <https://forms.gle/5h9CY7vgjWhUV66>

We cordially invite all faculties and students to join the Webinar..!

Coordinator
Dr. A. N. Balaji
Professor
Mechanical Engineering

Convener
Dr. S. DURAIRAJ
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Department of Electrical and Electronics Engineering
Organizes a Webinar
on
Emerging Trends in LORAWAN and its applications


DR.G.KANNAYARAM
ASSOCIATE PROFESSOR/EEE
SRI RAMAKRISHNA INSTITUTE OF
TECHNOLOGY, COIMBATORE

09-05-2023, at 11.00 AM
Hosting Platform : Google Meet
Registration Link : <https://forms.gle/A69kb9eXndtY5V9>

We cordially invite all Faculties to join the Webinar..!

COORDINATOR
Dr. P. DEEPAMANGAI, AP/EEE

CONVENER
Dr. S. DURAIRAJ
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Swayam - NPTEL Local Chapter
Organizes a Webinar
on
Fuel cell and its applications

SPEAKER
DR. R. SARALA
ASSOCIATE PROFESSOR
ALAGAPPA CHETTIAR GOVERNMENT COLLEGE OF
ENGINEERING AND TECHNOLOGY

14-05-2023, at 11.00 AM to 12.00 Noon
Hosting Platform : Google Meet
Registration Link : <https://meet.google.com/amp-ozj-qzm>

We cordially invite all Faculties and Students to join the Webinar..!

COORDINATOR
Dr. A. N. BALAJI
PROFESSOR
MECHANICAL ENGINEERING

CONVENER
Dr. S. DURAIRAJ
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Department of Physics
Organizes an International Webinar
on
SOLAR ERUPTIONS


SPEAKER
DR. ANITHA RAVISHANKAR
POST-DOCTORAL ASSOCIATE
UNIVERSITY OF CALGARY, CANADA

12-05-2023, at 11.00 to 12.00 AM
Hosting Platform : Google Meet
Registration Link : www.tinyurl.com/srmmcet-phywb2

We cordially invite all Faculties to join the Webinar..!

COORDINATOR(S)
Dr. O. PRAKASH, AP/ PHYSICS
DR. MR. MANIKANDAN, AP/PHYSICS

CONVENER
Dr. S. DURAIRAJ
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Department of Physics
Organizes
International Webinar on
Optoelectronic Devices and Materials: Trend and Perspective


DR. P.V. CHANDRASEKAR
Associate Professor (Research)
School of Science,
Minzu University of China, P. R. China

24-06-2023, at 11.00 AM
Hosting Platform : Google Meet
Registration Link : www.tinyurl.com/srmmcet-phywb3

We cordially invite all Faculties to join the Webinar..!

Coordinator(s)
Dr. M. MANIKANDAN
Dr. O. PRAKASH
AP/Physics

Convener
Dr. S. DURAIRAJ
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COLLEGE CODE : 9111 COUNSELLING CODE: 5842

Department of Mechanical Engineering
Organizes a Webinar
on
Additive Manufacturing and its Applications

SPEAKER
MR. K.A. ARIRAJAN
RESEARCH SCHOLAR,
MECHANICAL ENGINEERING,
NIT CALICUT.

19-05-2023, at (Time) 10.00 AM
Hosting Platform : Google Meet
Registration Link : <https://forms.gle/qj5ZYUjokoophB89>

We cordially invite all Faculties to join the Webinar..!

COORDINATOR(S)
Ms. M. SHRINATHI
TEACHING RESEARCH ASSOCIATE,
MECHANICAL ENGINEERING

CONVENER
Dr. S. DURAIRAJ
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Department of Library
Organizes a Webinar
on
Emerging Artificial Intelligence (AI) Tools for Academics


Dr.N.SUNDAR
Librarian
Thiagarajar College of Preceptors
Madurai

10-06-2023, at 11.00AM
Hosting Platform : Google Meet
Registration Link : tinyurl.com/srmmcet-lib8

We cordially invite all Faculties to join the Webinar..!

Coordinator
Dr. S.Chithiravel
Librarian

Convener
Dr. S. DURAIRAJ
PRINCIPAL

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Department of Civil Engineering
Organizes a Webinar
on
Sustainable Materials and Construction Techniques

Session 1 - "Advanced Construction Practices in Construction Industry"
Dr.R.Sivachidambaram, Senior Scientist,
CSIR-Central Building Research Institute, Roorkee, India

Session 2 - "Cleaner Production of Concrete with Selected Wastes - An Overview"
Dr.K.Rajesh Kumar, Associate Professor & Centre head,
Department of Civil Engineering, SR University, Telangana

11-05-2023, at 10AM - 12 Noon
Hosting Platform : Google Meet
Registration Link :
<https://forms.gle/3mHjRzTruL96eW7>

We cordially invite all Faculties and Research Scholars to join the Webinar..!

COORDINATOR(S) CONVENOR
Mrs. ANGELIN LINCY G Dr. S. DURAIRAJ
TRA / CIVIL PRINCIPAL

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Department of Mechanical Engineering & Research and Development Cell jointly Organizes a Webinar on
Functional Composites; Recent Advances and Future Directions

DR. V. BALASUBRAMANI
ASSOCIATE PROFESSOR
MECHANICAL ENGINEERING,
THIAGARAJAR COLLEGE OF ENGINEERING,
MADURAI.

19-06-2023, at (Time) 10:00 AM
Hosting Platform : Google Meet
Registration Link : <https://forms.gle/DSnuHFqzpx326f97>

We cordially invite all Faculties to join the Webinar..!

Coordinator(s) CONVENOR
Ms. M.Shunmathi, TRA Dr. S. DURAIRAJ
Mechanical Dept, R and D Cell PRINCIPAL

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Department of Civil Engineering
Organizes a Webinar
on
Technology Based Entrepreneurship through New Product Development

RESOURCE PERSON
DR.I.SANKAR
ASSOCIATE PROFESSOR
DEPARTMENT OF MECHANICAL ENGINEERING
NATIONAL ENGINEERING COLLEGE
KOVILPATTI

25-05-2023, at 11 to 12 PM
Hosting Platform : Google Meet
Meeting Link : <https://meet.google.com/ugm-edf-y-jr>

We cordially invite all Faculties and Students to join the Webinar..!

COORDINATOR CONVENOR
Ms.R.VENKADA LAKSHMI Dr. S. DURAIRAJ
AP - CIVIL PRINCIPAL

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Department of Mechanical Engineering
Organizes a Webinar
on
Biomaterials: Recent Advances and Future Directions

SPEAKER
DR. K. SEKAR
ASSOCIATE PROFESSOR,
MECHANICAL ENGINEERING,
NIT CALCUTTA.

17-05-2023, at (Time) 10:00 AM
Hosting Platform : Google Meet
Registration Link : <https://forms.gle/qi5ZVUjokoophB99>

We cordially invite all Faculties to join the Webinar..!

COORDINATOR(S) CONVENOR
Ms. M. SHUNMATHI Dr. S. DURAIRAJ
TEACHING RESEARCH ASSOCIATE, PRINCIPAL
MECHANICAL ENGINEERING

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COLLEGE CODE : 9111 COUNSELLING CODE : 5842

Department of English
Organizes an Online Quiz
on
Refresh Your Plural Vocabulary

Date : 16.05.2023
Time 3.00 p.m. onwards
via
<https://tinyurl.com/srmeng5>

Target Audience : Students from 6-12th standard and any interested learner

All are cordially invited to take part in the Quiz

COORDINATOR(S) CONVENOR
Dr. R. VINOTH Dr. S. DURAIRAJ
ASSISTANT PROFESSOR OF ENGLISH PRINCIPAL

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COLLEGE CODE : 9111 COUNSELLING CODE : 5842

Department of Chemistry
Organizes
ONLINE WEBINAR ON Modernization and its Environmental Concerns

SPEAKER
Dr. M. Rukmangathan
Dean of Academics
Arasu Engineering college,
Kumbakonam

DATE: 29-05-2023, TIME: 2.00 to 3.00 PM
Registration Link : <https://forms.gle/zPzoNALeSNFIDM6>

We cordially invite all chemistry aspirants to join ..!

COORDINATORS CONVENOR
Dr. D. MALATHY, AP/CHEMISTRY Dr. S. DURAIRAJ
P. PIRAMANAYAGAM, AP/CHEMISTRY PRINCIPAL

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Department of Mathematics
Organizes a Webinar
on
Mathematics in Nature and Life

SPEAKER
DR.V.C. AMRITHA
AD HOC FACULTY
DEPARTMENT OF MATHEMATICS
NATIONAL INSTITUTE OF TECHNOLOGY
WARANGAL, TELANGANA

31-05-2023, at (7.00 pm to 8.00 pm)
Hosting Platform : Google Meet
Registration Link :
<https://forms.gle/7Gq6CEG5vDQoDx7z8>

We cordially invite all Faculties to join the Webinar..!

COORDINATOR(S) CONVENOR
Dr. K. INDIRA Dr. S. DURAIRAJ
AP, DEPARTMENT OF MATHEMATICS PRINCIPAL

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75 Azadi Ka Amrit Mahotsav

DEPARTMENT FOR PROMOTION OF INDUSTRY AND INTERNAL TRADE
MINISTRY OF COMMERCE & INDUSTRY,
GOVERNMENT OF INDIA

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Department of Electrical and Electronics Engineering
in association with
Intellectual Property Rights cell
organizes
"IPR Awareness Programme"
under
National Intellectual Property Awareness Mission

28-06-2023, at 2.30 p.m
Hosting Platform : Google Meet
Registration Link : <https://forms.gle/ieilVXrX3WfWYXr8>

Free Registration
E-Certificate will be provided by IPO, India those who successfully attend the program

We cordially invite all Faculties to join the Webinar..!

Coordinator(s) CONVENOR
Dr.P.Deepamangai, AP/EEE Dr. S. DURAIRAJ
Dr. C.Vimalarani, ASP/EEE PRINCIPAL

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Department of chemistry
Organizes a Webinar
on
Renewable Energy Resources

SPEAKER
DR.P. VIJAYARAJAN
ASSOCIATE PROFESSOR
DEPARTMENT OF EEE
UNIVERSITY COLLEGE OF ENGINEERING
TRICHIRAPALLI.

31-05-2023, at 10.00am-11.00am
Hosting Platform : Google Meet
Registration Link :
<https://tinyurl.com/srmche>

We cordially invite all Faculties to join the Webinar..!

COORDINATOR(S) CONVENOR
Dr. D.MALATHY,AP-CHEMISTRY Dr. S. DURAIRAJ
Ms.P.PIRAMANAYAGAM, AP-CHEMISTRY PRINCIPAL

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"Our journey through innovation and discovery, this newsletter encapsulates the unwavering commitment and tireless efforts of our team. The strides made in research and development have not only expanded our knowledge horizons but also paved the way for groundbreaking solutions. As we reflect on the accomplishments showcased here, it's evident that our pursuit of excellence knows no bounds.

The collaborations, experiments, and breakthroughs detailed in this edition underscore our dedication to pushing the boundaries of possibility. Each work represents a step forward in our quest to transform ideas into impactful realities. We are proud to share these insights, knowing that they signify not just achievements but the relentless spirit of innovation driving us forward.

The seeds planted by our endeavors today will blossom into the solutions of tomorrow. Our commitment remains resolute in harnessing the power of innovation to create meaningful change. As we turn the page on this edition, let it serve as a reminder of our collective potential and the endless possibilities that await us on this exciting journey.

Together, let's continue to explore, create, and innovate for a brighter future."



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