



SRM MADURAI
College for Engineering and Technology

REPORT ON
FIRST SERIES OF
NATIONAL
CONFERENCE
(NCON'24)

APRIL 15 - 17, 2024



PREFACE

NCON 2024 is aims to convene experts and professionals from diverse sectors to share knowledge, insights, and pioneering ideas concerning the latest trends and advancements in engineering and technology. The conference acted as a pivotal gathering for researchers, academicians, industry experts, and students to engage in discourse surrounding sustainable development, digital transformation, and future technological directions.

As an intellectual hub, NCON 2024 facilitates a forum where scholars and practitioners can explore state-of-the-art innovations that hold significant potential for application across various industries. A key goal of this event is to demonstrate how technological applications can translate effectively into real-world scenarios. It seeks not only to enhance understanding of prospective opportunities within the engineering sector but also to benefit educators and students alike through focused discussions on pertinent topics. Our team has worked diligently to ensure that this event is both informative and impactful, with a lineup of renowned speakers and thought-provoking sessions.

The Organizing Secretary for NCON'24; Dr S Durairaj ensures meticulous planning towards hosting impactful dialogues intended firmly at fostering innovation among its attendees.

EVENT SPONSORS



FIRST SERIES OF NATIONAL CONFERENCE

NCON' 2024

AGENDA

| | |
|----------|----------------------------------|
| 09.10 am | Tamil Thai Vazhthu |
| 09.15 am | Lighting of Lamp |
| 09:20 am | Welcome Address |
| 09:25 am | Overview of Conference |
| 09:35 am | Honouring the Guests |
| 09:40 am | Presidential Address |
| 09:45 am | Release of Proceeding & Magazine |
| 09:50 am | Chief Guest Introduction |
| 10:00 am | Inaugural Address |
| 10:15 am | Technical Session - 1 |
| 12.30 pm | Lunch Break |
| 1.10 pm | Technical Session - II |
| 03.10 pm | Valedictory Function |

Venue: Auditorium, SRM MCET



FIRST SERIES OF NATIONAL CONFERENCE (NCON'24)

APRIL 15th – 17th , 2024

SRM Madurai College for Engineering and Technology, Sivagangai, successfully hosted the First Series of National Conference (NCON'24), a comprehensive three-day event combining technical sessions and expert keynote addresses. This event represented a collaborative endeavor from conception through to completion, spearheaded by the college's management, principal, organizing committee, faculty members, and students.

The call for papers commenced on February 15th '24 and concluded on April 8th '24. During this period, the conference received an exceptional level of participation with more than 200 entries from attendees representing over 50 colleges throughout Tamil Nadu and neighboring states.

The event was graced by distinguished chief guests across three days:

Day 1, we were honored with the presence of **Dr. G. Thavasi Raja** and **Dr. S. Moorthy** from NIT Trichy; **Dr. R. Saravana Ram** from Anna University Regional Campus, Madurai; and **Mr. M.J. Anand Kumar**, Lead Engineer (R&D) at HCL Technologies, Bangalore.

Day 2 featured insights from **Dr. T. Senthil Kumar** of Amrita School of Computing, Coimbatore; **Mr. C.Rajkumar**, Chief Technology Officer at Delivery Blueprints India Pvt Ltd., Pune; **Dr.E.Srie Vidhya Janani** also from Anna University Regional Campus, Madurai; and **Mr.Ramkumar Manoharan**, Co-Founder of Tensor Learning in Bangalore.

Day 3: With esteemed speakers, **Dr.R.Selvaraj** retired Senior Principal Scientist & Head (Retd.) CSIR – CECRI Karaikudi, alongside **Dr.M.R.Thansekhar**, Professor - Mechanical, K.L.N College of Engineering in Sivagangai District.

During the sessions, we were honored by the presence of our esteemed Principal and Chair of the organizing committee, **Dr.S.Durairaj**, alongside the Organizing Secretaries from various departments.

Prayer Song and Lighting of the Kuthu Vizhakku:

The inaugural ceremony began gracefully with dignitaries present on stage, as a harmonious prayer song set a serene tone throughout the hall. The beautiful rendition captivated and resonated with attendees, fostering an environment of peace and devotion. Subsequently, the kuthu vizhakku was ceremoniously lit by esteemed chief guests alongside our principal and organizing secretaries, marking an auspicious start to the event.



Lighting of Kuthu Vizhaku by dignitaries

Welcome Address:

In a warm and gracious welcome address, **Dr. P. Deepamangai**, AP/EEE for Day 1, **Dr. M. Sangeetha**, AP/IT for day 2, and **Dr. T. Prem Kumar**, AP/Mech for day 3, extended their heartfelt greetings to all the respected dignitaries, distinguished guests, and participants. Their enthusiasm was palpable as they began to highlight the significance of the conference. With exceptional articulation, they briefly touched upon the essence and purpose of each day event, emphasizing the valuable knowledge exchange and networking opportunities it offered. The welcome address set the tone for a successful and enriching event that promised to be a platform for collaboration, learning, and growth.

Honoring Chief Guest:

The Principal, **Dr. S. Durairaj**, took to the stage with grace and dignity to honor the esteemed chief guest of each day. It was a moment of recognition and appreciation for the guest's valuable insights and presence at the event. As a token of respect, the principal presented the chief guest with a beautiful momentum, symbolizing the institution's gratitude for their time and effort. The audience erupted in applause, acknowledging the guest's contribution to the event and their role in enriching the college community. The chief guest accepted the momentum with a smile, expressing their gratitude for being part of the special occasion. The gesture highlighted the strong values of respect and gratitude that the institution instills in its students.

Presidential Address:

The audience was greeted warmly by **Principal Dr. S. Durairaj**, who set the tone for the three-day conference with an air of excitement and anticipation. He expressed his gratitude for the presence of all attendees at this prestigious event, and emphasized the importance of such gatherings in fostering knowledge exchange, encouraging innovation, and pushing the boundaries of academic excellence. He

also took the opportunity to extend his heartfelt appreciation to all the participants, speakers, and organizers for their hard work and dedication in making the symposium possible. It was clear from his words that the conference was not just a platform for academic discussions, but also a place where ideas could flourish and collaborations could be formed.



Presidential Address by Dr. S. Durairaj

Release of Proceedings:

The release of the proceedings marked the highlight of the three-day event where the latest research and developments in the fields of Electronics and Electrical Engineering (ECE and EEE), Computer Science and Information Technology (CSE and IT), Civil Engineering, and Mechanical Engineering were discussed.

On day 1, the proceedings of ECE and EEE, as well as those of the **National Conference on Recent Trends in Electronics Communication Engineering (NCRTEC'24)** and **National Conference on Smart Grids and Electric Vehicle Technology (NCSET'24)**, were released by esteemed dignitaries.

Day 2 saw the release of the proceedings of CSE and IT, alongside those of the **National Conference on Recent Trends in Computer Science Engineering (NCRTEC'24)** and **National Conference on Intelligent Information Technology (NCIT'24)** were released by the dignitaries.

Finally, on day 3, the proceedings of Civil Engineering and Mechanical Engineering, the **National Conference on Recent Trends in Civil Engineering (NCRTEC'24)** and **National Conference on Cutting Research Technology in Mechanical Engineering (NCME'24)**, were also released.

The release of these proceedings highlights the wealth of knowledge and innovation showcased at the conference, providing valuable insights for researchers, academics, and industry professionals in these respective fields.

DAY 1

**ECE – “National Conference on Recent Trends in Electronics and Communication Engineering”
(NCRTEC 2024)**

**EEE – “National Conference on Future Trends in Smart Grids and Electric Vehicle Technology”
(NCSET 2024)**

The presence of esteemed guests **Dr. G. Thavasi Raja** and **Dr. S. Moorthy** from NIT Trichy; **Dr. R. Saravana Ram** from Anna University Regional Campus, Madurai; and **Mr. M.J. Anand Kumar**, Lead Engineer (R&D) at HCL Technologies, Bangalore added to the prestige of the conference.

Overview of the Conference:

Dr. P. Tharcis, the Organising Secretary of the National Conference on Recent Trends in Electronics and Communication Engineering (NCRTEC 2024), provided a comprehensive overview of the upcoming event. With a prestigious academic background and extensive experience in the field, Dr. Tharcis highlighted the significance of the conference in fostering innovation and collaboration among professionals in the industry. The conference aims to bring together researchers, scholars, and industry experts to discuss and exchange ideas on the latest trends and advancements in electronics and communication engineering. Through keynote speeches, panel discussions, and research presentations, NCRTEC 2024 endeavors to explore new frontiers in the field and address emerging challenges. He emphasized the importance of networking opportunities and knowledge sharing that the conference will provide, paving the way for future collaborations and groundbreaking research initiatives. Overall, the overview presented by Dr. Tharcis set the stage for a highly anticipated and impactful event that promises to shape the future of electronics and communication engineering.



ECE & EEE – Release of Proceedings by Dr. S. Durairaj to Dr.G. Thavasi Raja and Dr. S.Moorthy

Dr. C. Vimalarani, the Organizing Secretary and Head of the ECE/EEE department, eloquently presented the overview of the "National Conference on Future Trends in Smart Grids and Electric Vehicle Technology" (NCSET 2024). With her expertise and extensive knowledge in the field, Dr. Vimalarani emphasized the importance of embracing advancements in smart grid technology and electric vehicles for a sustainable future. The conference aims to bring together experts, researchers, and industry professionals to discuss and explore the latest developments and innovations in these crucial areas. NCSET 2024 promises to be a platform for exchanging ideas, sharing insights, and collaborating on solutions that will shape the future of energy and transportation. As the world moves towards a greener and more energy-efficient future, conferences like NCSET play a significant role in driving progress and fostering collaborations in the field.

Release of Magazine:

The release of the conference proceedings and the ECE and EEE department **magazine "Fly-High"** were highly anticipated events that marked important milestones of the day. The conference proceedings showcased the latest research and innovations in the fields of electronics and electrical engineering, providing valuable insights and opportunities for collaboration among the academic community.

On the other hand, the release of the department magazine "Fly-High" served as a platform for students and faculty to showcase their projects, research papers, and achievements, further promoting the exchange of knowledge and ideas within the department. Both of these publications highlighted the dedication and hard work of the students and faculty in pushing the boundaries of technological advancement, making significant contributions to their respective fields. Student Contributors are, **Karthick G B, I ECE, Anandhi, I EEE, Siva Surya K, I EEE, Madhumitha A, I ECE, Raja Rajeshwari, I ECE, Gurushruthi M, I ECE, Nila R H, I ECE, Divya Kirthana M, I ECE**. Overall, the release of these publications symbolized the commitment to excellence and innovation that defines the ECE and EEE departments.

Keynote Talk 1:

Dr. G. Thavasi Raja's keynote speech on "**Photonic Devices for Communication Sensing and Industrial Applications**" was the highlight of the conference, captivating the audience with his in-depth knowledge and expertise in the field. His insightful presentation provided valuable insights into the latest advancements in photonic technology and its applications in various industries. During his speech, Dr. Thavasi Raja likely discussed the Photonic devices, which harness the properties of light for information processing and transmission, play a crucial role in modern telecommunications systems, sensor networks, and industrial automation. By sharing his expertise and insights, Dr. Thavasi Raja contributed to the conference's objectives of facilitating knowledge exchange and exploring new frontiers in research and development. His keynote speech likely inspired attendees to delve deeper

into the potential of photonic devices and explore innovative ways to leverage them for addressing contemporary challenges and driving technological progress.



Keynote Talk by Dr. S. Moorthy

Keynote Talk 2:

Dr. S. Moorthy, Professor in the Department of Electrical and Electronics Engineering (EEE), delivered a keynote speech titled "**Embedded Controllers for Smart Grid and its Applications**". In his address, Dr. Moorthy likely shared insights into the role of embedded controllers in modern smart grid systems and their applications in enhancing efficiency, reliability, and sustainability. Keynote speeches from esteemed professionals like Dr. Moorthy are crucial components of conferences like NCSET 2024, as they provide attendees with expert perspectives on cutting-edge topics and inspire further exploration and innovation in the field. Dr. Moorthy's expertise likely shed light on the latest developments, challenges, and opportunities in the realm of smart grid technology, enriching the knowledge base of the audience and sparking meaningful discussions among researchers, scholars, and industry experts alike.

Technical Session:

Day 1 of the conference was a whirlwind of valuable insights and knowledge sharing opportunities, with around 30 articles presented by colleges from Tamil Nadu and other states. The range of topics covered was signal processing, multimedia applications, biomedical applications, etc., providing a comprehensive look at the current research and trends in the field.

The lively discussions and debates that ensued created a vibrant and intellectually stimulating atmosphere. It was truly inspiring to see individuals from different backgrounds come together to share their expertise and learn from one another. The conference was not just a platform for presenting research findings, but also a chance to network and build relationships with like-minded individuals.

DAY 2

CSE – “National Conference on Recent Trends in Computer Science Engineering” (NCRTCS 2024)

IT – “National Conference on Recent Trends In Intelligent Information Technology” (NCIT 2024)

The Presence of esteemed guests **Dr. T. Senthil Kumar** of Amrita School of Computing, Coimbatore; **Mr. C.Rajkumar**, Chief Technology Officer at Delivery Blueprints India Pvt Ltd., Pune; **Dr.E.Srie Vidhya Janani** also from Anna University Regional Campus, Madurai; and **Mr.Ramkumar Manoharan**, Co-Founder of Tensor Learning in Bangalore graced the event.



CSE & IT – Release of Proceedings by Dr. S. Durairaj to Dr. T. Senthil Kumar and Dr. E. Srie Vidhya Janani

Overview of the conference:

Dr. C. Callins Christiyana, the Organising Secretary of NCRTCS and Head of the Department of Computer Science Engineering, provided an insightful overview of the conference. The main objective of the conference is to bring together participants from various disciplines to delve into and present cutting-edge ideas, frameworks, techniques, tools, and applications focused on sustainable development. In a rapidly evolving world dominated by bytes and algorithms, these luminaries serve as the architects of our digital future. Their sharp minds and boundless creativity have paved the way for the technological landscape we inhabit today. Moreover, the conference serves as a valuable platform to engage students in research activities and foster an environment that nurtures skills in research conceptualization, writing, presentation, communication, and dissemination. She stated that, this initiative aims to equip students, scholars, and faculty members with the knowledge and opportunities needed to excel in both global and national settings within the field of Computer Science and Engineering. Presenting a research paper at such a conference not only boosts one's academic profile but also opens up avenues for networking and collaboration with new partners.

Dr. S.J. Subhashini, the Organizing Secretary of the National Conference on Intelligent Information Technology (NCIT'24), recently provided a comprehensive overview of their event. The conference aims to bring together experts, researchers, and professionals in the field of information

technology to discuss the latest advancements and innovations. With a focus on harnessing the power of intelligent technologies, such as artificial intelligence and machine learning, the conference will explore cutting-edge research and applications in areas like data analytics, cybersecurity, and cloud computing. Dr. Subhashini highlighted the importance of staying at the forefront of technological advancements and fostering collaboration among industry leaders to drive progress and innovation in the field. As the conference approaches, anticipation is high for the exchange of knowledge, ideas, and best practices that will undoubtedly shape the future of intelligent information technology.



Release of Magazine and Newsletter:

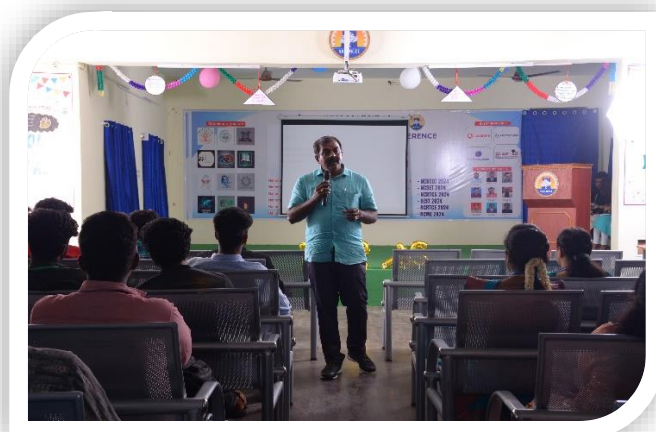
The release of the department of Computer Science's magazine and Newsletter, department of Information Technologies “Future Forge” Magazine was a highly anticipated event, showcasing the talent and hard work of both students and faculty members. The magazine was filled with a wide range of articles, each offering unique insights on various topics within the field of computer science. From groundbreaking research to innovative projects, the Newsletter provided readers with a comprehensive overview of the department's achievements.



It was evident that both students and faculty members had put in countless hours of dedication and effort to create a publication that truly captured the essence of their passion for the subject. The magazine and Newsletter release was not only a platform to showcase their work, but also a celebration of the collaborative and dynamic community within the department. The Student Editors of the CSE department are *Sanjay Deva V, I CSE-AIML and Thivyan K S, I CSE-AIML, for IT department M Vishva, I AIDS, M R Kumararaja, I AIDS, T R Shrinithi, I AIDS, G A Ram Visshal, I AIDS, R Gokul, I AIDS, S Kavitha, I IT, K Kowsika, I IT, and S Harini, I IT.* The Faculty Editors are, *Dr. C. Callins Christiyana, Prof & HoD-CSE, Dr. J. Jeyaranjani, HoD-IT, Dr. M. Sangeetha, AP-IT, Dr. M. Pandi, ASP-IT, and Mrs. M. Nithiyakalyani, AP-IT.* Overall, the Magazine and Newsletter was a testament to the department's commitment to excellence and its ongoing pursuit of knowledge and innovation in the field of computer science.

Keynote Talk 1 (CSE):

Dr.T. Senthil Kumar illuminated the audience with a profound discourse on Emotional Intelligence, delving into its significance and practical applications. He shared insights into his three impactful projects. ANSAN, a tool designed to diagnose Glaucoma, aims to revolutionize eye health through early detection and intervention. AAIRAA, a mood-detection system, offers a nuanced understanding of individuals' emotional states, including happiness, sadness, and anger, fostering empathy and tailored support. Lastly, Yoga Seva, an innovative app, helps users manage stress by integrating yoga practices into their daily lives, promoting holistic well-being. Senthil Kumar T's initiatives reflect a holistic approach to health and well-being, leveraging technology to address diverse aspects of human experience and promote a healthier, more connected society.



Keynote Talk by Dr. T. Senthil Kumar

Keynote Talk 2 (CSE):

Dr.C.Rajkumar delved into the intricacies of SDLC roles, highlighting the pivotal functions of both business (product team) and engineering teams. He elucidated software development approaches such as agile and waterfall projects, emphasizing their distinct methodologies. Additionally, he

underscored the significance of key roles like data scientists, who transform data into actionable insights, and designers, who craft user experiences. Moreover, He discussed the vital role of DevOps in facilitating seamless collaboration between development and operations teams. As he wrapped up his speech, He emphasized the significance of soft skills highly valued by corporate peoples in students, including problem-solving prowess, effective communication abilities, and the aptitude for collaborative teamwork. These attributes, he emphasized, are indispensable for thriving in today's dynamic and interconnected work environments.

Keynote Talk 1 (IT):

Dr.E.Srie Vidhya Janani Elaborated about Augmented Reality (AR) and Virtual Reality (VR) key features and also explained about the different applications in gaming, education, training, healthcare, and marketing. She explained about the difference of AR & VR. AR users can control their presence in the real world. VR users are controlled by the system. VR requires a headset device, but AR can be accessed with a smartphone. AR enhances both the virtual and real world while VR only enhances a fictional reality. She explained about the current challenges and Research opportunities of AR & VR. She explained the VR through real time example. Also, she elaborated about the implementation details.



Keynote Talk by Dr. E. Srie Vidhya Janani

Keynote Talk 2 (IT):

Mr.Ramkumar Manoharan explained about Generative AI feature, uses of Large Language Models (LLMs) and Prompt Engineering. Generative AI models use neural networks to identify the patterns and structures within existing data to generate new and original content. Examples of foundation models include GPT-3 and Stable Diffusion, which allow users to leverage the power of language. For example, popular applications like ChatGPT, which draws from GPT-3, allow users to generate an essay based on a short text request. He elaborated the tools of AI. How the Generative AI implemented in real time applications. He discussed about the availability of courses to learn Generative AI.

Technical Session:

Day 2 of the conference was filled with a flurry of valuable insights and knowledge sharing opportunities. Nearly 45 articles were presented by colleges not only from Tamil Nadu but also from other states, covering a wide range of topics such as IOT, Deep learning, Face recognition, Machine learning, Algorithm, Block Chain Technology, Network Security, Artificial intelligence, and more. This diverse range of topics provided attendees with a comprehensive look at the current research and trends in the field. What truly set this day apart was the collaborative atmosphere and the exchange of ideas among professionals and scholars, creating an environment that fostered innovation and growth in the industry. It was truly a day to remember for all those participants.



Glimpses of CSE & IT Technical Sessions



The conference paved the way to form CSE student coordinators who are to be associated with the web and app development teams of the Amrita School of Computing and deliver the interface for the funded projects from industry and government agencies. The CSE student coordinators are assigned to complete prerequisite online courses to take up the projects. Additionally, through this forum, as the Generative AI is an emerging field, it is planned to offer the courses of Generative AI to our IT department students through value added courses.

DAY 3

“National Conference on Recent Trends in Civil Engineering” (NCRTCE 2024)

“National Conference on Cutting Research Technology in Mechanical Engineering” (NCME' 24)

The esteemed speakers, **Dr.R.Selvaraj** retired Senior Principal Scientist & Head (Retd.) CSIR – CECRI Karaikudi, alongside **Dr.M.R.Thansekhar**, Professor - Mechanical, K.L.N College of Engineering in Sivagangai, They adorned the assembly and bestowed their knowledge upon the naive minds.



Overview of the Conference:

Dr. Angelin Lincy G, the Organising Secretary of the National conference on recent trends in civil engineering (NCRTCE'24), took the stage to provide an insightful overview of the conference. With enthusiasm and professionalism, she detailed the key themes and topics that would be discussed by the esteemed panel of speakers and presenters. As she spoke, she highlighted the importance of staying up-to-date with the latest advancements in the field of civil engineering. She emphasised the need for continuous learning and adaptation to new technologies in order to ensure the safety and longevity of our infrastructure. Dr. Angelin also touched upon the various topics that would be covered during the conference, ranging from sustainable construction practices to innovative materials and techniques. It was clear that, the conference would be a valuable opportunity for professionals in the field to network, learn, and collaborate towards the mutual goal of advancing civil engineering practices. In her address, Dr. Angelin also took the time to express her heartfelt gratitude to the management team, the Principal, and the members of the advisory committee for their support and guidance in making the conference a reality.

Dr R Ashok Kumar, as the Organizing Secretary and Head of the Mechanical department, took the opportunity to provide attendees with a comprehensive overview of the National Conference on

Cutting Research Technology in Mechanical Engineering (NCME'24). With a wealth of knowledge and experience in the field, he highlighted the significance of advanced cutting research technology in enhancing the efficiency and quality of mechanical engineering processes. He emphasized the importance of staying up-to-date with the latest advancements and trends in the field to ensure continued innovation and progress. Dr Ashok Kumar's insights served as a valuable guide for participants, inspiring them to actively engage in discussions and share their own research findings and experiences. His dedication to fostering collaboration and knowledge sharing within the mechanical engineering community was evident throughout the conference, setting the stage for a fruitful and informative event.



Civil & Mechanical – Release of Proceedings by Dr. S. Durairaj to Dr. R. Selvaraj and Dr. MR. Thansekhar

Release of Magazine:

At this prestigious event, the mechanical department proudly showcased their latest endeavor, the magazine "**Machina.**" With esteemed dignitaries present on the dias, the magazine serves as a testament to the hard work and dedication of the faculty members and students within the department. Each page is filled with stories of success, innovation, and passion for all things mechanical. From groundbreaking research projects to hands-on practical experiences, "Machina" highlights the incredible achievements that have been made by those within the mechanical department.



Keynote Talk 1:

Dr. R Selvaraj, a renowned expert and Senior Principal Scientist & Head (Retd.,) at CSIR-CECRI, recently delivered an insightful talk on "**Economical cement formulations**". Cement concrete is undoubtedly the most widely used man-made material worldwide, but the production of Portland cement is known to be extremely energy-intensive and a major contributor to carbon dioxide emissions. In fact, the carbon dioxide emissions from global cement production are nearly equivalent to the weight of the cement itself, accounting for about 5% of the world's total greenhouse gas emissions. In response to this environmental concern, various technical committees have been established to regulate cement production and enforce measures aimed at significantly reducing CO₂ emissions. These committees also invest heavily in research to explore alternative forms of cement that are more sustainable. Dr. Selvaraj, with his vast experience and expertise, has been pivotal in developing successful, eco-friendly, and cost-effective cement formulations that not only help in conserving natural resources but also make cement more affordable for consumers. His contributions in this field are indeed commendable and signify a step forward towards a more sustainable and environmentally conscious construction industry.



Keynote Talk by Dr. R. Selvaraj



Keynote Talk by Dr. M.R. Thansekhar

Keynote Talk 2:

Dr M R Thansekhar explained the "**Concepts and Applications of Heat Transfer**". He elaborated about needs of cooling and thermal management in Electronic gadgets. He clarified about the difference of Active and Passive cooling methods that are used in Electronics cooling techniques. He briefed about the types of cooling such as Air cooling, Water cooling, Nanofluids, Jet impingement cooling and Microchannel cooling. He explained the Applications of Microchannel cooling in Fuel Cells, PV Cells and Micro-chemical reactors. Header shapes used in Microchannel and Parameters influence the flow in Microchannel were also described briefly. Scope for further research in Microchannel cooling was narrated. His talk not only showcases the excellence and expertise within the mechanical department but also inspires others to pursue their own ambitions in the field of mechanical engineering.

Technical Session:

On Day 3 of the conference, attendees were treated to a wealth of information and discussions on a variety of topics within the fields of civil and mechanical engineering. The presentations were not limited to just colleges from Tamil Nadu, but also included contributions from colleges across different states. The range of topics covered was vast, with discussions on sustainability, alternative building materials, smart infrastructure, ICT in environmental engineering, AI in civil engineering, Finite Element Technique, Friction Stir Welding, Composite Materials, Abrasive Water Jet Machining, Industrial Engineering, CAD/CAM, and more. The atmosphere was buzzing with excitement as experts shared their knowledge and insights, providing valuable takeaways for all those in attendance. The conference proved to be a valuable platform for knowledge sharing and networking amongst professionals in the field of engineering.



Glimpses of Civil & Mechanical Technical Sessions



The **Model Expo** showcased projects created by students of I year Civil Engineering, focusing on concepts like Green building, Sustainable architecture, Reduce Reuse Recycle, and Zero Carbon Waste. The overall goal of the expo was to create a positive impact on society and contribute to the development of a sustainable built environment for future generations. It was inspiring to see young minds actively working towards a more environmentally conscious future.

Release of Institute News Bulletin:

“SRM MCET ANNALS”

On Day 3 of the Conference, the Principal, the dignitaries in the dias and the students in the gathering came together to release the much-anticipated Institute News Bulletin **"SRM MCET ANNALS" Volume 1, Issue 2**. This newsletter serves as a comprehensive compilation of the achievements of the faculties and the various events that were conducted at SRM MCET. It is a testament to the hard work and dedication of the Faculties at the institution. The first issue of the newsletter was initially unveiled during the Induction Day on September 6, 2023. **Dr. R. Vinoth**, AP-English, has taken on the role of Editor for the newsletter, meticulously collecting and documenting the successes of the faculty members which include publications, events conducted and attended, books published, and special events that took place at SRM MCET. This initiative not only showcases the talent and accomplishments within the institution but also serves as a source of inspiration for all members of the SRM MCET community.



Glimpses of Release of Institutional Newsletter “SRM MCET ANNALS”



Valedictory Session:

The valedictory session of the event was meticulously coordinated by **Dr. P. Deepamangai and Dr. A. Narendran on day 1, followed by Dr. M. Sangeetha and Dr. J. Jeyaranjani on day 2, and Dr. T. Prem Kumar and Dr. P. Krishna Kumar on day 3.** The guest speakers graciously handed out certificates to the participants, while also taking the time to gather feedback from them. The session culminated in a heartwarming group photo, a vote of thanks, and the singing of the National Anthem.



Glimpses of Distribution of Certificates

The ceremony, a grand and momentous occasion, was elegantly hosted by the Students of SRM MCET, **Ananthi.J, I-EEE, Siva Surya.K, I-EEE, A Madhumita, I-ECE, M.Gurushruthi, I-ECE** for the day 1, **Immaculate Gracy R, I-AIDS, Sri Harini P, I-IT, Shobika Sree N R K, I-IT, Gnanadharshan M, I-AIML, Dhanuja K S E, I-CS** for day 2, **Mega S, I-Civil, Naga Arjun P S, I-Mech** for day 3. **Nishalini M, I-CS, Sheyaja Y, I-CS, Logitha, I-CSE, Harini, I-CSE** who sang Prayer Song and National Anthem. Their charming and eloquent demeanour captivated the audience from the moment they took center stage, effortlessly setting the tone for the day.

Student Photography team: Joshua Tony Bastin. S, I CSE-CS, Karthik Babu. A.V, I CSE-CS, Pradeep.K.D, I CSE-CS, Rohith.S.R, I CSE-CS, Inzamam ul haq Y, I CSE-AIML, Kumara Raja M R, I AIDS, Harish Raj M, I-IT.

The kit provided to all the participants included various items to enhance their experience during the event. In addition to the kit, a delightful High Tea and Lunch were also offered to everyone in attendance.



Group Photo with Dignitaries, Participants, Organizing Committee

NCON'24 OVERALL REPORT:

| | | |
|---|---|-----|
| Total No. of Participants Registered | - | 189 |
| Total No. of Participants Participated | - | 147 |
| Total No. of Participants from other States | - | 30 |
| Total No. of Colleges participated | - | 52 |
| Total No. of Experts Visited | - | 10 |
| Total No. of Advisory Committee Members | - | 32 |

NCON'24 NOTABLE COLLEGES

| S.No. | College Name | Place |
|--------------|--|------------------------------|
| 1. | Alagappa Chettiar Government College of Engineering and Technology | Karaikudi |
| 2. | Andhra Loyola Institute of Engineering and Technology | Andhra Pradesh |
| 3. | Bharath Institute of Higher Education and Research | Chennai |
| 4. | Chaitanya (Deemed To Be) University | Telangana |
| 5. | Coimbatore Institute of Technology | Coimbatore |
| 6. | College of Engineering | Trivandrum, Kerala |
| 7. | College of Engineering and Technology | Trivandrum, Kerala |
| 8. | Dayananda Sagar University | Bengaluru |
| 9. | Dr.Mahalingam College of Engineering and Technology | Pollachi |
| 10. | Fatima Michael College of Engineering and Technology | Madurai |
| 11. | Francis Xavier Engineering College | Tirunelveli |
| 12. | Government College of Technology | Coimbatore |
| 13. | Indira Gandhi Centre for Atomic Research | Kalpakkam |
| 14. | Jain Deemed- to- be University | Bengaluru |
| 15. | K.L.N.College Of Engineering | Sivagangai |
| 16. | Kalasalingam Academy of Research and Education | Krishnan Kovil |
| 17. | Kamaraj College of Engineering and Technology | Virudhunagar |
| 18. | KGISL Institute of Technology | Coimbatore |
| 19. | Kings Engineering College | Chennai |
| 20. | Lendi Institute of Engineering and Technology | Vizianagaram, Andhra Pradesh |
| 21. | Manav Rachna International Institute of Research and Studies | Faridabad, Haryana |

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| 22. | Mangayarkarasi College of Engineering | Madurai |
| 23. | Manikam Ramaswami College of Arts & Science | Madurai |
| 24. | Manipal Institute of Technology | Udupi, Karnataka |
| 25. | Mar Ephraem College of Engineering | Marthandam |
| 26. | MGM University | Aurangabad, Maharashtra |
| 27. | Mohamed Sathak Engineering College | Ramanathapuram |
| 28. | Muslim Association College of Engineering | Venjaramoodu, Thiruvananthapuram |
| 29. | Nagarjuna College of Engineering and Technology | Bengaluru, Karnataka |
| 30. | National Engineering College | Kovilpatti |
| 31. | Noorul Islam Center for Higher Education | Kumaracoil, Thuckalay |
| 32. | P.A.C. Ramasamy Raja Polytechnic College | Rajapalayam |
| 33. | P.S.R Engineering College | Sivakasi |
| 34. | PSNA College of Engineering and Technology | Dindigul |
| 35. | Rajalakshmi Engineering College | Chennai |
| 36. | Ramco Institute of Technology | Rajapalayam |
| 37. | Saranathan College of Engineering | Trichy |
| 38. | Sethu Institute of Technology | Virudhunagar |
| 39. | Sharda University | Noida, Delhi |
| 40. | SIMATS Deemed University | Chennai |
| 41. | Solamalai College of Engineering | Madurai |
| 42. | Sona College of Engineering and Technology | Salem |
| 43. | Sri Ramachandra Institute of Technology, | Coimbatore |
| 44. | Sri Ramakrishna Engineering College | Coimbatore |
| 45. | Sri Ramakrishna Institute of Technology | Coimbatore |
| 46. | Sri Sairam College of Engineering | Bangalore, Karnataka |
| 47. | SRM TRP Engineering College | Tiruchirappalli |
| 48. | St.Joseph's College of Engineering and Technology, | Thanjavur |
| 49. | Thiagarajar College of Engineering | Madurai |
| 50. | TOC H Institute of Science And Technology | Ernakulam, Kerala |
| 51. | TOMS College of Engineering | Mattakara, Kottayam |
| 52. | Vaigai College of Engineering | Madurai |

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