

The Institution of Engineers (India)

Coimbatore Local Centre

Quarterly Newsletter

January 2026 | Volume 9

Dr J Pradeep Kumar FIE
Honorary Secretary, IEI CLC

Dr M Senthilkumar FIE
Chairman, IEI CLC



“The centre thanks committee members, corporate members and the associated institutions!”

“Best Local Centre Award” for the best all-round performance during the year 2024-2025 was awarded to IEI Coimbatore Local Centre by The Institution of Engineers (India), Headquarters, Kolkata. On behalf of the Centre, Chairman Dr M Senthilkumar received the award given by Dr Ajay Kumar, Chairman, Union Public Service Commission in the presence of Er V B Singh, President, IEI during the 40th Indian Engineering Congress held in Durgapur, West Bengal on 20.12.2025.



The Chairman's Desk

It is truly an honour that the Institution of Engineers (India) Coimbatore Local Centre has been

recognised with the “Best Local Centre” for the year 2024-2025, marking the third consecutive time our Centre has received this prestigious recognition. This remarkable achievement stands as a testament to the collective efforts, dedication, and commitment of our Centre in organising a wide range of meaningful activities. Such consistent recognition reflects the strong teamwork, effective leadership and active participation of our members. It also motivates us to further enhance the quality and impact of our professional and technical initiatives.

On this proud occasion, I express my sincere gratitude to the Past Chairmen, Past Honorary

Secretaries, all Committee Members, associated academic institutions and our well-wishers for their continuous support and encouragement. Let us draw inspiration from this accomplishment as we continue to strive for greater heights.

Further, the IEI Coimbatore Local Centre is pleased to have successfully organised the 60th Annual General Meeting, World Habitat Day, World Standards Day and Energy Conservation Day during the last quarter. Looking ahead, we are delighted to host Regional Language Promotional Day, the 14th Dr V Ramakrishnan Endowment Lecture, World Engineering Day for Sustainable Development and World Water Day in the forthcoming quarter, along with our regular technical lectures.

Dr M Senthilkumar FIE
Chairman, IEI CLC

60th Annual General Meeting

24.10.2025



The 60th Annual General Meeting of The Institution of Engineers (India), Coimbatore Local Centre was held on 24.10.2025 at PSG College of Technology campus, Coimbatore.

The Chairman, IEI Coimbatore Local Centre, Dr J Krishnamoorthi, welcomed the gathering. The Annual Report and Audited Financial Report for the year 2024-2025 were presented by the Honorary Secretary, Dr G Madhan Mohan, and the reports were duly approved.

On the occasion of the 60th AGM, the Past Chairmen and Past Honorary Secretaries were felicitated by Dr A V Varadharajan, Chairman, AV Group of Companies, Coimbatore. The Chief Guest Address was also delivered by Dr A V Varadharajan, who appreciated the Centre's continued contributions and acknowledged the dedicated services of its past office bearers.

Subsequently, the new committee for the term 2025-2027 was installed by Dr J Krishnamoorthi. The committee comprises the Chairman, Honorary Secretary, Immediate Past Chairman, Immediate Past Honorary Secretary and elected members representing various engineering divisions.

The outgoing Chairman, Dr J Krishnamoorthi, conveyed his best wishes to the new team and thanked the previous committee members for their contributions.

The incoming Chairman, Dr M Senthilkumar, delivered his acceptance speech, emphasizing the need to increase membership, especially from industry. He assured that the new team would work towards enhancing the visibility of IEI by organizing a greater number of quality technical activities.



A special lecture was then delivered by Prof T Shanthamani, Tamil Orator and Renowned Public Speaker, Coimbatore, on the topic “வாழ்க்கை நம் கையில் - Life is in Our Hands”. She highlighted the importance of self-confidence, positive thinking, and taking responsibility for shaping one's own life. She inspired the audience to believe in their abilities, embrace challenges with courage and cultivate a mindset that empowers personal growth and success. About 150 members of IEI, faculty from various institutions, and industry professionals attended the programme.

The event concluded with the vote of thanks proposed by the incoming Honorary Secretary, Dr J Pradeep Kumar, who expressed gratitude to all members for their participation in the AGM.



Group photo of the committee for the term 2025-2027

The Institution of Engineers (India)

Coimbatore Local Centre

List of Committee Members for the term 2025 - 2027

Chairman	Honorary Secretary
Dr M Senthilkumar (F-122562-2) Professor and Head Department of Production Engineering PSG College of Technology Coimbatore - 641004 Email: msk.prod@psgtech.ac.in	Dr J Pradeep Kumar (F-130199-5) Associate Professor Department of Production Engineering PSG College of Technology Coimbatore - 641004 Email: jpk.prod@psgtech.ac.in
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Corporate Air Ticketing for IEI Members

Corporate Members may book Corporate Air Ticket through M/s EBIX Travels Private Ltd. For details please visit

<https://www.ieindia.org/webui/IEI-AirTickets.html>

World Habitat Day 2025

06.10.2025

The Institution of Engineers (India), Coimbatore Local Centre, celebrated World Habitat Day 2025 with the theme “Urban Crisis Response - Through the Lens of a Civil Engineer” in association with Department of Civil Engineering, PSG College of Technology, Coimbatore, on 06.10.2025. The lecture was delivered by Er Natarajan Krishnasamy, Founder, The Lime Life, Coimbatore.

Dr J Krishnamoorthi, Chairman, IEI Coimbatore Local Centre, welcomed the guest speaker and participants. Er C G Sivakumar, Associate Professor and Head, Department of Civil Engineering, PSG College of Technology, felicitated the event.

Er Natarajan Krishnasamy emphasized the importance of empowering young people to understand that humans themselves contribute significantly to urban challenges. He highlighted the urgency of addressing climate change, focusing on river restoration and ecosystem recovery, while underscoring the need for sustainable urban planning.

He also spoke about the growing threat of plastic pollution, urging youth to take an active role in waste reduction and to promote the use of traditional materials such as lime and mud as climate-resilient alternatives to conventional construction materials. He concluded by showcasing several projects in Tamil Nadu constructed using mud and lime as load-bearing materials, demonstrating how traditional knowledge combined with modern engineering can offer practical, sustainable solutions to today's urban challenges.

Finally, the vote of thanks was proposed by Dr T Ramesh, Assistant Professor, Department of Civil Engineering, PSG College of Technology and Committee Member, IEI Coimbatore Local Centre.



World Standards Day 2025

14.10.2025



IEI Coimbatore Local Centre, celebrated World Standards Day on the theme “Shared Vision for a Better World: Spotlight on SDG 17 - Partnerships for the Goals” in partnership with Department of Electronics and Communication Engineering, Coimbatore Institute of Technology, Coimbatore on 14.10.2025. The technical lecture was delivered by Dr Ramalatha Marimuthu, Founder, iExplore Foundation for Sustainable Development, Coimbatore.

Dr G Madhan Mohan, Honorary Secretary, IEI Coimbatore Local Centre, delivered the welcome and presidential address. Dr M Poongothai, Professor and Head, Department of Electronics and Communication Engineering, Coimbatore Institute of Technology, felicitated the event and briefed the gathering about the programme.

Dr Ramalatha Marimuthu delivered a compelling lecture on the theme “Building a Resilient, Inclusive, and Sustainable Future Together”. She emphasized the need to achieve societal balance through sustainable career pathways and uninterrupted workforce participation.

Drawing from her extensive experience, she highlighted the importance of collaborative competition and long-term partnerships between industry and academia. Participants were particularly inspired by her Returning Mothers Conference, an initiative aimed at rediscovering lost talent and revitalizing the careers of women returning after professional breaks. She concluded by reiterating that a truly sustainable future can be achieved only by fostering enduring economic growth while ensuring social well-being and environmental integrity.

At the end of the programme, Dr I S Akila, Associate Professor, Department of Department of Electronics and Communication Engineering, Coimbatore Institute of Technolog, proposed the vote of thanks.

Energy Conservation Day 2025

15.12.2025

The Institution of Engineers (India), Coimbatore Local Centre celebrated “Energy Conservation Day 2025” with a technical lecture on “Clean Energy and Challenges”, in collaboration with Department of Electrical and Electronics Engineering, PSG College of Technology, Coimbatore, on 15.12.2025. The lecture was delivered by Er A D Thirumoorthy, Energy Consultant, Coimbatore.

Dr J Pradeep Kumar, Honorary Secretary, IEI Coimbatore Local Centre, welcomed the guest speaker and the participants. Dr T Bogaraj, Committee Member, IEI Coimbatore Local Centre and Professor, Department of Electrical and Electronics Engineering, PSG College of Technology, Coimbatore, felicitated the event. Dr R Latha, Committee Member, IEI Coimbatore Local Centre and Associate Professor, Department of Electrical and Electronics Engineering, PSG College of Technology, Coimbatore, introduced the guest speaker.



Er A D Thirumoorthy delivered an informative presentation on the theme “Clean Energy and Challenges”, with a special focus on renewable energy. He began by highlighting reports on Delhi’s deteriorating air quality index, indicating a sharp rise in air pollution levels. To address issues such as air pollution and uneven temperature surges, he emphasized the importance of installing rooftop solar panels, noting that such installations could lead to significant cost savings and help save nearly 60 trees each year.

He also explained the emergence of the electricity market, which enables the sale of surplus power and the purchase of instant power when required, followed by an interactive discussion on net zero concepts and government schemes promoting solar and wind energy.

The event concluded on a gracious note with the vote of thanks by Dr S Prabhakaran, Joint Honorary Secretary, IEI Coimbatore Local Centre.

Technical Lecture on “Production Engineering for a Greener Future”

14.10.2025

IEI Coimbatore Local Centre, in association with Department of Production Engineering, PSG College of Technology, Coimbatore, organized a technical lecture on “Production Engineering for a Greener Future” on 26.11.2025. The lecture was delivered by the guest speaker, Er K Kavinraj, Deputy Manager - Assembly, Elgi Equipments Limited, Coimbatore.

Dr J Pradeep Kumar, Honorary Secretary, IEI Coimbatore Local Centre and Associate Professor, Department of Production Engineering, PSG College of Technology, delivered the welcome address and presided over the session. During the lecture, Er Kavinraj explained key concepts of green manufacturing, highlighting the importance of designing eco-friendly products, adopting energy-efficient and waste-minimizing processes, and implementing sustainable practices across industries.

He illustrated his talk with examples such as renewable-energy-powered factories, recyclable materials, lean production techniques and pollution-control systems. He emphasized how these initiatives help conserve resources, reduce environmental impact, and support long-term economic and social sustainability. The interactive question and answer session further enriched the discussion, where he clarified production engineering concepts in a simple and structured manner. His insights into product and process perspectives were particularly noteworthy, offering practical understanding of sustainable practices in the production sector.



The programme came to a close with a vote of thanks proposed by Mr K Saravanakumar, Committee Member, IEI Coimbatore Local Centre and Assistant Professor, Department of Production Engineering, PSG College of Technology, acknowledging the valuable contributions of all involved.

Technical Lecture on “Application of Aluminium Castings in the Automotive Industry”

16.12.2025

IEI Coimbatore Local Centre organized a technical lecture on “Application of Aluminium Castings in the Automotive Industry” in partnership with the Department of Metallurgical Engineering, PSG College of Technology, Coimbatore and The Indian Institute of Metals (IIM), Coimbatore Chapter on 16.12.2025. The lecture was delivered by Er Mani Loganathan, Global Account Manager, KS HUAYU AluTech GmbH, Germany.



Dr M Senthilkumar, Chairman, IEI Coimbatore Local Centre, welcomed the guest speaker and the participants. Dr J Krishnamoorthi, Immediate Past Chairman, IEI Coimbatore Local Centre, Vice Chairman, IIM Coimbatore Chapter and Professor & Head, Department of Metallurgical Engineering, PSG College of Technology, felicitated the event. Dr Deepak Kumar Satapathy, Assistant Professor, Department of Metallurgical Engineering, PSG College of Technology, introduced the chief guest to the audience.

Er Mani Loganathan explained the structure and evolution of the passenger car industry and highlighted the growing role of aluminium castings in modern automobiles, particularly in the context of lightweighting and e-mobility. The lecture covered aluminium alloys and their heat treatability, along with various aluminium casting technologies such as sand casting, gravity die casting, low-pressure die casting and high-pressure die casting. The session concluded with key takeaways emphasizing the increasing demand for aluminium castings and the dominance of high-pressure die casting, along with the need for advanced metallurgical and manufacturing skills to support the evolving automotive sector.

The session concluded with a vote of thanks proposed by Dr J Pradeep Kumar, Honorary Secretary, IEI Coimbatore Local Centre.

Technical Lecture on “Automotive Electronics Design and Manufacturing”

19.12.2025

The Institution of Engineers (India), Coimbatore Local Centre in collaboration with Department of Electronics and Communication Engineering, PSG Polytechnic College, Coimbatore, organized a technical lecture on “Automotive Electronics Design and Manufacturing” on 19.12.2025. The lecture was delivered by the resource persons Er M Senthil Kumar, Associate Head - Engineering & New Projects, and Er P Shyaam Sunthar, Junior Manager, R&D Electronics Design Centre, Roots Industries India Private Limited, Coimbatore.

Dr J Pradeep Kumar, Honorary Secretary, IEI Coimbatore Local Centre, delivered the welcome address. Dr B Giriraj, Principal, PSG Polytechnic College, felicitated the event. Ms D Jayasree, HoD (In-charge), Department of Electronics and Communication Engineering, PSG Polytechnic College, introduced the resource persons.



Er M Senthil Kumar delivered a comprehensive presentation on automotive electronics design and development. He emphasized the importance of automotive electrical standards, functional safety, cybersecurity and the use of AEC-qualified components to ensure reliability and compliance in modern vehicles.

Er P Shyaam Sunthar elaborated on PCB manufacturing, assembly, and testing processes followed in the automotive industry. He explained quality-focused manufacturing practices such as PCB traceability, assembly line processes, inspection techniques and advanced testing methods including AOI, X-ray inspection and functional testing. He also highlighted the significance of ESD protection and vehicle testing in controlled environments to ensure product reliability and performance.

The event concluded on a gracious note with the vote of thanks by Dr S Prabhakaran, Joint Honorary Secretary, IEI Coimbatore Local Centre.

One Day Seminar on “Urban Flood Management: Strategies for Resilient Cities”

25.10.2025



The Institution of Engineers (India), Coimbatore Local Centre, in collaboration with Department of Civil Engineering, PSG Institute of Technology and Applied Research (PSG iTech), Coimbatore, organized a One Day Seminar on “Urban Flood Management: Strategies for Resilient Cities” under the aegis of the Civil Engineering Division Board, IEI on 25.10.2025.

The inaugural function began with a warm welcome address by Dr M Senthilkumar, Chairman, IEI Coimbatore Local Centre, who also briefed the gathering about the various activities and initiatives of IEI. Dr P Muthupriya, Professor and Head, Department of Civil Engineering, PSG iTech, presented the seminar theme. Dr V Navin Ganesh, Assistant Professor, Department of Civil Engineering, PSG iTech, introduced the chief guest.

The chief guest, Dr B Sridharan, Assistant Professor, Department of Civil Engineering, Indian Institute of Technology, Palakkad, addressed the audience and highlighted the critical importance of urban flood management in the current climate and urban development scenario. The inaugural session concluded with a vote of thanks proposed by Dr J Pradeep Kumar, Honorary Secretary, IEI Coimbatore Local Centre.

The first technical session was delivered by Dr B Sridharan and focused on “Urban Flood Management for Chennai”. He highlighted key causes of flooding, the need for sustainable planning, and nature-based solutions. Case studies and practical strategies for improving urban flood resilience were also discussed. The session provided valuable insights into integrated urban flood mitigation practices relevant to rapidly growing cities.



The second technical session was delivered by Mr L Panneer Selvam, Executive Engineer, Central Water Commission (CWC), who presented on “Flood Early Warning System in Central Water Commission”. He explained real-time data usage, forecasting models, and digital platforms that support timely flood alerts.

The third technical session was delivered by Dr B Soundharajan, Associate Professor, Department of Civil Engineering, Amrita University, and focused on “Hydroclimatic Extremes and Urban Floods”. He discussed climate-driven extremes, their impacts, and the role of advanced modelling tools in planning. The session emphasized resilience pathways and sustainable flood risk management.



The fourth technical session was delivered by Dr R Ilangovan, Former Vice Chairman, Tamil Nadu Water Resources Development Cell, who spoke on “Sustainable Approaches for Urban Flood Management”. He stressed integrating engineering and ecological solutions such as SUDS and watershed restoration. Policy reforms and stakeholder involvement were highlighted as essential for long-term resilience. The session reinforced the need for a holistic and participatory approach to sustainable urban flood management.

Several successful case studies from Tamil Nadu and other regions were shared, offering practical insights into real-world implementation. The session concluded with an engaging discussion on the future direction of sustainable urban water management.

All India Seminar on “The Role of Machinery in Post-Harvest Management: From Farm to Market Efficiency”

06-07 November 2025

The Institution of Engineers (India), Coimbatore Local Centre, organized an All India Seminar on “The Role of Machinery in Post-Harvest Management: From Farm to Market Efficiency” under the aegis of the AGDB, IEI in partnership with Department of Food Technology and Department of Mechanical Engineering, SNS College of Technology on 06-07 November 2025.

The seminar commenced with the inaugural function. Dr M Senthilkumar, Chairman, IEI Coimbatore Local Centre, delivered the welcome address and presidential address. This was followed by felicitations by Dr S Charles, Principal, SNS College of Technology. An overview of the seminar was presented by Dr P Tamilselvam, Professor & Dean, Department of Mechanical Engineering, SNSCT.

The chief guest, Dr T Arumuganathan, Principal Scientist, Crop Production Division, ICAR-Sugarcane Breeding Institute, Coimbatore, delivered the inaugural address and he emphasized the alarming extent of post-harvest losses in horticultural and food crops, which often exceed 20-40% in tropical conditions due to inadequate handling and storage practices. The session concluded with the vote of thanks proposed by Ms R Mohana Priya, Assistant Professor, Department of Food Technology, SNSCT.



The first invited lecture was presented by Dr T Arumuganathan on the topic “Post-Harvest Losses: Challenges and Opportunities in Agriculture”. He discussed the critical challenges of post-harvest losses and food wastage in India, highlighting their impact on food security, farmer livelihoods and the national economy.



The third invited lecture was delivered by Dr V Tirupathi, Professor, Department of Food Process Engineering, Agricultural Engineering College and Research Institute, TNAU Coimbatore, on the topic “Preserving Freshness and Waste Reduction Using Cold Storage Technology”. He addressed the critical importance of cold chain infrastructure in minimizing post-harvest losses and extending the shelf life of perishable agricultural produce. The afternoon session featured five technical paper presentations covering diverse themes related to food technology and post-harvest management.

The fourth invited lecture was delivered by Mr N Ramanan, Managing Director & Chief Executive Officer, Synce Engineering, Chennai, on the topic “Role of Artificial Intelligence in Agricultural Machinery”. He examined the transformative impact of AI on modern farming equipment and precision agriculture. The fifth invited lecture was delivered by Mr C Devaraj, Chief Executive Officer, Aadhithya Dairy Farms, Udumalaipettai, on the topic “Different Types of Milk Storage”. He explored diverse storage solutions essential for preserving the quality, safety, and nutritional integrity of milk.

The sixth invited lecture was delivered by Dr C Senthil Kumar, Associate Professor, Department of Mechanical Engineering, SNS College of Technology, Coimbatore, on the topic “Automation in Post-Harvest Management”. He highlighted the growing role of automation technologies in streamlining post-harvest operations.

On the second day, five technical papers were presented covering innovative engineering and agricultural applications. The presentations highlighted sustainable solutions in areas such as biodegradable materials, food processing automation, waste-to-compost systems, and renewable energy-based cold storage. The programme concluded with the valedictory session and distribution of certificates to the participants.

One Day Seminar on “Engineering Sustainable Approaches to Advance Cereal Crop Production and Ensure Food Security”

14.11.2025

The Institution of Engineers (India), Coimbatore Local Centre organized a One Day Seminar on “Engineering Sustainable Approaches to Advance Cereal Crop Production and Ensure Food Security” in association with Department of Agricultural Engineering, Hindusthan College of Engineering and Technology, Coimbatore, on 14.11.2025.



In the inaugural session, Dr J Pradeep Kumar, Honorary Secretary, IEI Coimbatore Local Centre, welcomed the gathering and spoke about the scope and significance of IEI membership along with its various activities. This was followed by the felicitation address by Dr J Jaya, Principal, HICET. An overview of the seminar, including its objectives and thematic focus, was presented by Dr N Sridhar, Associate Professor and Head, Department of Agricultural Engineering, HICET. The chief guest of the event, Mr K Dhevendhiran, Human Resources Manager, Mobitech Wireless Solution Private Limited, Perundurai, delivered the inaugural address. He explained the importance of advanced cereal crop production technologies and their role in ensuring food security. The inaugural session concluded with a vote of thanks proposed by Dr C Rajaravi, Associate Professor, Department of Agricultural Engineering, HICET.

The first invited lecture was delivered by Mr K Dhevendhiran on the topic “Ensure Food Security Through Precision Farming”. He highlighted the importance of integrating advanced technologies such as remote sensing, IoT-based monitoring and data-driven decision-making to improve crop productivity.

The second invited lecture titled “Start-Up Opportunities in Hi-Tech Hydroponics and Mushroom” was delivered by Dr Lakshmanan Chandran, Director - Sales and Marketing, Greenzy Private Limited, Coimbatore. He discussed emerging entrepreneurial opportunities in hydroponics and mushroom cultivation, touching upon modern technologies, market prospects, investment needs and value-added avenues.

The third invited lecture titled “Smart and Sustainable Grain Storage - A Key to Food Security” was delivered by Dr V Chelladurai, Associate Professor & Head, Department of Agricultural Engineering, Bannari Amman Institute of Technology, Sathyamangalam. He elaborated on advanced grain storage systems such as controlled-atmosphere units, hermetic storage and sensor-based monitoring.

The afternoon session featured 12 technical paper presentations covering a wide range of topics in agriculture, food processing, materials engineering and aerodynamics. Presentations included innovative themes such as smart farming in hilly regions, hydrogel technology for tomato plants, high-pressure food processing, membrane and thermal processing techniques, carbon footprint analysis and composite material studies.

Papers on AI-powered crop health monitoring, automated banana pseudostem injector systems and sustainable cereal crop production highlighted advancements in modern agriculture. The session also included aerodynamics-focused studies on fish scale arrays and optimization algorithms. Overall, the presentations provided valuable insights and encouraged knowledge sharing among participants.

The program concluded with a valedictory session followed by the distribution of certificates to all participants.



All India Workshop on “Advanced Wireless Sensor Network-Based Transforming Smart Agricultural Systems: Leveraging Artificial Intelligence (AI) and Machine Learning (ML) Applications”

26-27 November 2025

The Institution of Engineers (India), Coimbatore Local Centre in partnership with Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, organized an All India Workshop on “Advanced Wireless Sensor Network-Based Transforming Smart Agricultural Systems: Leveraging Artificial Intelligence (AI) and Machine Learning (ML) Applications” under the aegis of ETDB, IEI on 26-27 November 2025.

The workshop commenced with the inaugural function Dr J Pradeep Kumar, Honorary Secretary, IEI Coimbatore Local Centre, delivered the welcome and presidential address. This was followed by felicitations by Dr C Natarajan, Principal, Hindusthan Institute of Technology. An overview of the seminar was presented by Dr B Paulchamy, Professor & Head, Department of ECE, Hindusthan Institute of Technology. The chief guest, Er Vijay Rajendran, Director, Accent Techno Soft, Coimbatore, delivered the inaugural address, emphasizing the global impact of technological sustainability in agriculture and highlighting the role of innovation in transforming efficiency and productivity. The session concluded with the vote of thanks proposed by Dr K Mahendran, Associate Professor, Department of ECE Hindusthan Institute of Technology.



Er Vijay Rajendran delivered the first technical lecture on “Sustainability in Agriculture through Technology”. He explained how modern technology drives sustainability in agriculture by enhancing productivity while protecting natural resources.

The second lecture titled “Wireless Sensor Networks for Agriculture”, was delivered by Dr P Sivakumar, Professor, Department of ECE, Dr. NGP Institute of Technology, Coimbatore. The third lecture was delivered by Dr P Vivekanandhan, Professor & Head, Department of Computer Science and Engineering (AIML), Dr Mahalingam College of Engineering and Technology, Pollachi, on “Artificial Intelligence and Machine Learning Basics”.



The fourth lecture, titled “Hands-on Practical Sessions - An Innovative Sensor Network for Sustainable Agriculture”, was delivered by Er R Vignesh, Design Engineer, Pumo Technovation, Coimbatore. He conducted hands-on sessions demonstrating the implementation of innovative sensor networks in agricultural fields. The fifth lecture was delivered by Dr R Sudarmani, Professor, Department of ECE, School of Engineering, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore, on “AI and ML Applications in Agriculture”. She explained how AI and ML analyze large agricultural datasets to predict yields, detect diseases, and optimize resource usage. The sixth lecture was delivered by Er G Aravind, Assistant Manager, Sourcing & Vendor Development, Jayem Automotives Private Limited, Coimbatore, on “Smart Supply Chain and Market Analytics”. He discussed how digital technologies improve the efficiency, transparency and profitability of agricultural value chains.

The afternoon session featured 15 paper presentations focusing on smart agriculture and advanced sensor technologies. The papers highlighted applications of wireless sensor networks, artificial intelligence, and machine learning for precision farming, crop monitoring, irrigation management, and yield prediction. Overall, the session showcased innovative, data-driven solutions aimed at improving agricultural efficiency, sustainability and resilience. The program concluded with a valedictory session.



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