



CHITKARA
UNIVERSITY

CHITKARA
INTERNATIONAL
COLLEGE

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Centre of
Excellence for
Sustainability

Concept to Prototype

Resource Person

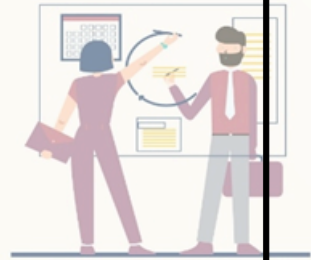
Prof.(Dr.) Rajneesh Talwar
Dean, DICE

3rd October, 2024

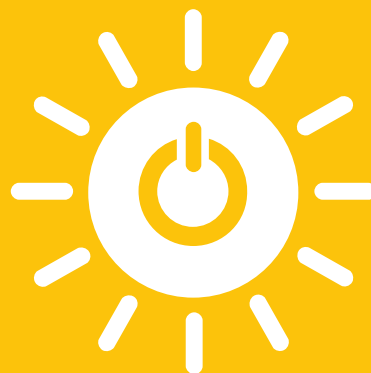
Time: 2:00 PM - 4:00 PM

Target Audience: ASU Cohort Students

Organised By:
Chitkara International College



7 AFFORDABLE AND CLEAN ENERGY



Jul 2024 - Jun 2025

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Event Name	2 nd International Conference on Emerging Materials, Smart Manufacturing & Computational Intelligence
Date	18-19 July 2024
Venue	Pierre Hall, Le Corbusier Block
Department	Centre for Research Impact and Outcome
Resource Person	Day 1: Dr. Apurbba Kumar Sharma from IIT Roorkee, keynote addresses were given by Dr. Sanjeev Kumar from CSIR-CSIO, Dr. Navneet Khanna from IITRAM, and Mr. Mukesh Singh from LPS Bossard Pvt. Ltd Day 2: Ms. Priya Vyas from Springer Nature, Dr. Milos Djukic from the University of Belgrade, and Dr. Giuseppe Carbone from the University of Calabria.
Number of Participants	65
SDGs Covered	SDG 3, 4, 7, 9, 12 and 13
Duration	2 days

About the Activity

The 2nd International Conference on Emerging Materials, Smart Manufacturing, and Computational Intelligence presents a valuable opportunity for researchers and industry professionals. The event centers on the potential of innovative materials and advanced technologies to enhance manufacturing processes. By facilitating discussions on groundbreaking concepts, the conference fosters collaboration among academic institutions, businesses, and investors. This synergy is crucial as it promotes partnerships that lead to the creation of new technologies, ultimately improving the efficiency and productivity of manufacturing facilities. Such advancements will contribute to the development of superior products for consumers. Furthermore, the 2nd International Conference on Emerging Materials, Smart Manufacturing & Computational Intelligence (ICEMSMCI-2024) transcended traditional academic gatherings, serving as a significant platform for experts and thought leaders to tackle pressing Sustainable Development Goals (SDGs). The conference highlighted the interrelation of industrial innovation, responsible consumption, health improvements, clean energy initiatives, climate action, and



educational advancements.

Objectives:

- To provide a platform for researchers and experts to discuss advancements in emerging materials, smart manufacturing, and computational intelligence.
- To foster collaboration and knowledge exchange in sustainability, energy, and health-based technologies.
- To highlight cutting-edge research in robotics, bio-sensing, green energy, and innovative engineering solutions.

Key Highlights:

- Hybrid format: Day 1 (Offline at Chitkara University), Day 2 (Online).
- Renowned keynote speakers from IIT Roorkee, CSIR-CSIO, IITRAM, Springer Nature, University of Belgrade, and University of Calabria.
- Over 200 submissions, with 65+ papers selected (30% acceptance rate).
- Five technical tracks covering sustainable materials, smart manufacturing, robotics, computational intelligence, and healthcare computing.
- Parallel sessions featuring innovative research on bio-waste, fog detection, cancer diagnosis, and energy-efficient technologies.

Outcomes:

- Successful knowledge sharing and networking among global researchers and industry experts.
- Recognition of outstanding research through awards and acknowledgments.
- Strengthened focus on sustainable development and interdisciplinary innovations.
- Advancement of research in engineering, robotics, healthcare computing, and green energy technologies.

Glimpse of the Event



Event Name	Towards Sustainability – An ESG Journey for Management Students
Date	22 nd to 27 th July 2024
Venue	AIT Extension, Asian Institute of Technology, Thailand
Organizer	Office of International Affairs in collaboration with Chitkara Business School
Resource Person	<ol style="list-style-type: none"> 1. Mr. Voravate Chonlasin 2. Ms. Prae Piromya 3. Dr. Gopi Krishna 4. Dr. Sujata Bhatia 5. Mr. David Galipeau 6. Dr. Zakir Hossain 7. Dr. Pallavi Mohapatra 8. Mr. Md. Anishur Rahman 9. Mr. Kona Venkata anantha Kiran 10. Mr. Reynaldo Calabdan
Number of Participants	30 Chitkara students and 2 Faculty members
SDGs Covered	SDG 3 (Good Health and Well-being), 4 (Quality Education), 5 (Gender Equality), 7 (Affordable and Clean Energy), 8 (Decent Work and Economic Growth), 10 (Reduced Inequalities), 12 (Responsible Consumption and Production), 16 (Peace, Justice, and Strong Institutions), and 17 (Partnerships for the Goals)
Duration	7 Days

About the Activity

A comprehensive eight-day ESG program was conducted at the Asian Institute of Technology (AIT) Extension in Thailand, bringing together a diverse group of thirty students from various academic disciplines. The program was meticulously designed to provide a holistic understanding of Environmental, Social, and Governance (ESG) principles and their critical role in shaping a sustainable future. Through a combination of expert-led sessions, interactive workshops, and real-world case studies, participants delved deep into the complexities of ESG implementation and reporting. The curriculum covered a wide range of topics, including environmental sustainability, ethical business practices, and the strategic use of emerging technologies such as AI and data analytics to drive ESG initiatives. A highlight of the program was a site visit to Siam Kubota Co. Ltd., where students gained firsthand experience of sustainable practices in action, particularly in the realm of wastewater management. Additionally, the program incorporated a cultural immersion component, allowing

participants to explore local markets and interact with the community, fostering a deeper appreciation for the social and economic dimensions of sustainability. This experiential learning approach

Day wise report

On Day 1, 22nd July 2024, A cohort of thirty students from diverse academic backgrounds, including IPM, Liberal Arts, Engineering, Design, and Physiotherapy, convened at the Asian Institute of Technology (AIT) Extension in Thailand for an eight-day immersive program centered on Environmental, Social, and Governance (ESG) principles. The program aimed to cultivate a comprehensive understanding of ESG and its pivotal role in sustainability. The program commenced with a formal welcome from Mr. Voravate Chonlasin, Executive Director of AIT Extension, followed by a session on "ESG in Today's World" delivered by ESG expert Ms. Prae Piromya. Ms. Piromya shared her extensive experience in guiding organizations towards sustainable practices. To foster in-depth learning, participants engaged in case studies, group activities, and a sustainable pyramid exercise. These experiential learning opportunities allowed students to explore real-world ESG challenges, analyze stakeholder perspectives, and grasp the complexities of ESG implementation and reporting. At the end of the day, students presented key takeaways from the session in a designated AIT group, which will serve as a valuable assessment component for program evaluation.

On Day 2, 23rd July 2024, On the second day of the Towards Sustainability program, students delved deeper into the intricate world of ESG. Dr. Gopi Krishna, Affiliate Faculty of the Masters in ESG program at AIT's School of Management, provided a comprehensive overview of environmental sustainability principles and concepts. Equipped with various tools and frameworks, students learned to assess sustainability in different contexts. The afternoon brought an exciting shift as students embarked on a field trip to True Digital Park. This hands-on experience provided invaluable insights into the realms of big data and IoT, underscoring the pivotal role of technology in advancing ESG initiatives. The visit also presented an opportunity for the accompanying faculty members to explore potential internship placements for students.

Day 3, 24th July 2024, On the third day of the summer program, students gained valuable knowledge from two distinguished experts. Dr. Sujata Bhatia, a professional development coach, introduced students to the concepts of Strategic and Design Thinking. Meanwhile, Mr.

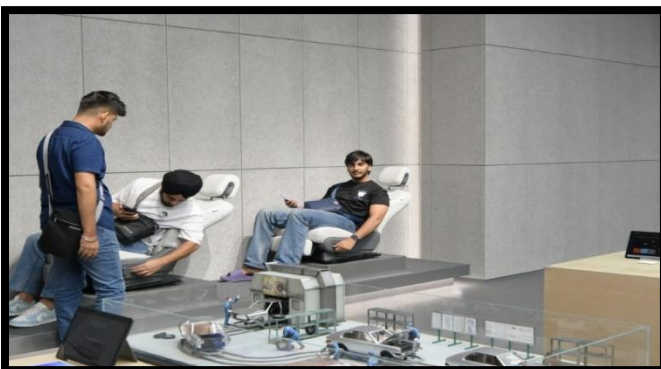
David Galipeau, a visiting faculty member from the AIT School of Management, delved into the critical areas of ESG standards, ethical operations, and sustainability. Mr. Galipeau provided insights into how organizations can balance ethical considerations with their sustainability objectives. To enhance the learning experience, the session incorporated interactive workshops facilitated by the experts. A productive meeting between Chitkara faculty members and AIT leadership explored opportunities for collaboration. Discussions with the Director of International Affairs, Chitkara faculty and Dr. Zakir from AIT Extension focused on potential joint initiatives, including sustainability-focused talks.

On Day 4, 25th July 2024, Day four of the program delved into the transformative potential of emerging technologies. Participants explored the applications of Generative AI, Remote Sensing, and Drone Technology, as well as the critical role of ESG in shaping the Thai business landscape. Expert insights were shared by Dr. Zakir, Dr. Pallavi, Mr. Anish, and Mr. Kona. A site visit to Siam Kubota Co. Ltd provided firsthand experience of ESG implementation, with a particular focus on wastewater management and other sustainable practices.

Day 5, 26th July 2024, The session delved into the synergy between design thinking and sustainable development. Participants gained insights into the pivotal role of digital transformation in advancing ESG practices. Through a case study presented by Mr. Reynaldo Calabdan, the session underscored the importance of leadership in driving sustainability initiatives. The event concluded with a certificate distribution ceremony and mutual greetings, marking a successful knowledge-sharing experience.



Day 6, 27th July 2024, Students embarked on an immersive cultural and economic exploration of Pattaya. A bustling local market provided a sensory feast, introducing students to the vibrant market of Thai. The ferry journey offered a unique perspective of the region, while direct interactions with locals fostered a deeper understanding of everyday life and economic realities. This experiential learning opportunity equipped students with valuable insights into Thai culture, market dynamics, and the interconnectedness of local communities.



Event Details	
Event Name	Career Counselling
Topic	Scaling and Growth Strategies for Startups
Date	2024 - 07 - 31 to 2024 - 07 - 31
Mode	Offline
Venue	LH- 102, Rock feller Block
Organizer Name	Chitkara Business School
Resource Person	Indeerveer Singh Founder and CEO
No. of Participants	55
SDG No	4,7,9,12,13

Objective

1. Understand the importance of product - market fit .
2. Learn effective go- to- market strategies .
3. Leverage network density for growth .
4. Navigate different stages of startup growth .
5. Address common startup challenges with practical solutions .

Description

With a background in producing electric trucks since 2014 , Sir provided a unique perspective on sustainable vehicles and the challenges faced in scaling a startup . One of the key highlights was the emphasis on achieving product - market fit (PMF). He explained that understanding customer needs and continuously improving the product based on feedback is crucial for any startup . He illustrated this with examples of companies like King Media and Sound Cloud , which experienced significant growth by focusing on their customers ' needs . The discussion then moved to the importance of a robust go- to- market (GTM) strategy . He stressed the need for a clear plan that includes branding , pricing , distribution , and leveraging network density . He highlighted the significance of understanding the market from the consumers ' perspective to effectively launch and scale a product . He described the Explanation Stage , where the idea is developed and refined the Extrapolation Stage marked by rapid growth and the Expansion Stage , focusing on profitability and market penetration . He used real - life examples to illustrate these stages, making it easier for participants to relate to their own experiences . The event also addressed common challenges faced by startups , such as building the right team , acquiring customers , sales strategies and technical issues.

Outcomes

1. Enhanced Understanding of PMF
2. Leveraging Network Density



Event Details	
Event Type	Workshop
Topic	The Science of Laundry- Practical Exposure & Learning
Date	2024-08-05 to 2024-08-08
Mode	Offline
Venue	Central Laundry, Boys Hostel
Organizer Name	Chitkara College Of Hospitality Management
No. of Participants	50
SDG No	SDG 6: Clean Water and Sanitation, SDG 7: Affordable and Clean Energy, SDG 12: Responsible Consumption and Production, SDG 13: Climate Action

Objective

1. To provide hands-on experience in large-scale laundry operations relevant to hospitality.
2. To offer insights into the latest technologies and equipment in modern laundry systems.
3. To emphasize the importance of hygiene, fabric care, and operational efficiency in laundry management.
4. To bridge the gap between theoretical knowledge and real-world applications for students.
5. To highlight the critical role of laundry services in upholding hospitality industry standards.

Description

From August 5th to 8th, 2024, students from Chitkara College of Hospitality Management visited the Central Laundry facility at Chitkara University, Punjab, gaining valuable insights into large-scale laundry operations, which are pivotal in the hospitality sector. The visit was guided by Mr. R.K. Mehta, an industry expert, who provided a detailed overview of the processes, challenges, and innovations in laundry management. This immersive experience allowed students to see firsthand the intricate systems behind handling, washing, drying, and sorting linens on a large scale, all while maintaining high standards of hygiene and fabric care. The excursion also introduced students to the latest laundry technologies and equipment, reinforcing the importance of operational efficiency, hygiene, and sustainability. They observed how advanced machines streamline the laundry process, ensuring that massive loads are managed effectively, which is essential in high-demand hospitality



environments. Mr. Mehta's guidance on best practices emphasized the significance of meticulous care and maintenance of fabrics, key elements in extending the life of linens and maintaining the aesthetic quality expected in hospitality establishments. This practical exposure serves as a vital part of their curriculum, bridging the gap between theoretical knowledge and real-world applications. By witnessing the laundry's role in supporting overall guest satisfaction, students gained a deeper appreciation for behind-the-scenes operations that uphold hospitality standards. The experience reinforced their understanding of operational management and highlighted how laundry services contribute to the seamless functioning of the hospitality industry, ultimately preparing them for future roles in hospitality management.

Outcomes

1. Enhanced understanding of large-scale laundry operations in hospitality.
2. Familiarity with modern laundry technologies and equipment.
3. Improved awareness of hygiene, fabric care, and efficiency in laundry management.
4. Practical application of theoretical knowledge in a real-world setting.
5. Recognition of the importance of laundry services in maintaining hospitality standards.



Event Details	
Event Name	Expert Talk
Topic	Expert Session on From Compliance to Crime Solving in Digital Era
Date	2024 - 08 - 12 to 2024 - 08 - 12
Mode	Offline
Venue	LH 503 , Rockefeller Block
Organizer Name	Dr. Deepak Sood , Dr. Reena Malik , Dr. Monica Gupta
Resource Person	Dr. Baljinder Kaur Assistant Professor
No. of Participants	60
SDG No	SDG 4 : Quality Education , SDG 7: Affordable and Clean Energy

Objective

1. To educate the audience on the importance of compliance in the digital space .
2. To discuss the evolving nature of cyber threats and how traditional compliance measures need to adapt to the complexities of the digital era .
3. To present case studies where robust compliance measures have successfully contributed to solving or preventing cybercrimes .
4. To analyze future trends in digital compliance and crime solving .

Description

Department of BBA Professional , Chitkara University organised an expert lecture on “From Compliance to Crime Solving in Digital Era” in offline mode on 12th August , 2024 . The resource person was Dr. Baljinder Kaur, Assistant Professor , Chitkara Business School . The session delved in leveraging advanced technologies like AI, big data , and blockchain , compliance teams can detect anomalies , trace illegal activities , and collaborate with law enforcement to solve crimes more effectively . Dr. Baljinder emphasized that compliance teams are not just gatekeepers of legal and ethical standards but are also critical players in identifying and mitigating digital crimes such as fraud , money laundering , cyberattacks , and insider threats . This shift has been driven by the increasing complexity of cybercrimes , where perpetrators exploit technological advancements to commit crimes that are difficult to detect using traditional methods .

Outcomes

1. Attendees gain a deeper understanding of the evolving digital threat .

2. Learned advanced compliance strategies that go beyond mere regulatory adherence .
3. The audience gained practical tools, frameworks , and methodologies to integrate compliance and crime - solving practices .
4. Attendees prepared for future challenges and trends in digital compliance and crime solving , equipping them to handle emerging



Event Details	
Event Name	Expert Talk
Topic	Climate Finance and Sustainable Development
Date	2024 - 08 - 13 to 2024 - 08 - 13
Mode	Offline
Venue	LH- 103, Rockefeller Block , CBS, Chitkara University
Organizer Name	Chitkara Business School
Resource Person	Navpreet Sidhu Assistant Professor
No. of Participants	69
SDG No	4,7,9,12,13

Objective

- Understand the role of climate finance in combating climate change .
- Explore the linkages between climate finance and Sustainable Development Goals (SDGs).
- Identify challenges in mobilizing climate finance .
- Analyze policy frameworks and best practices for leveraging climate finance .

Description

This session on " Climate Finance and Sustainable Development " will explore the vital intersection between financial resources and global efforts to mitigate climate change while fostering sustainable growth . As climate change continues to pose significant challenges , the mobilization and effective deployment of climate finance have become more critical than ever. The session will delve into the fundamental role of climate finance in supporting the transition to a low - carbon economy and its potential to drive sustainable development across various sectors , including energy , agriculture , and infrastructure . Participants will be introduced to the different sources , mechanisms , and instruments of climate finance , such as green bonds , carbon credits , and public - private partnerships . The session will also address the complex challenges faced by developing countries in accessing and utilizing climate finance , highlighting the importance of international cooperation and innovative financial solutions . By exploring case studies and real - world examples , attendees will gain insights into how

climate finance has been successfully leveraged to achieve tangible sustainability outcomes. Moreover, the session will provide a platform for discussing the existing policy and regulatory frameworks that govern climate finance, with a focus on identifying best practices and potential improvements. The interactive discussions will encourage participants to share their experiences and ideas.

Outcomes

- Increased awareness of climate finance and its impact on sustainable development.
- Actionable insights on mobilizing and utilizing climate finance.
- Informed policy recommendations for improving climate finance alignment with SDGs.



Event Name	Sustainable Development Goals
Topic	3D Poster Making Competition CREATIVE VISION FOR SUSTAINABLE WORLD
Date	2024 – 08- 29 to 2024 – 08- 29
Mode	Offline
Venue	LH 405, 4th Floor, Rockefeller Block, Chitkara University, Punjab
Organizer	Centre For Digital Marketing Strategy & Analytics
Resource Person	Ms. Leeza, Assistant Professor
Number of Participants	114
SDG Covered	4, 12, 13, 7
Duration	1day

About the Activity

The Centre for Digital Marketing Strategy & Analytics recently organized a unique 3D Poster Making Competition, “Creative Vision for Sustainable World”, on August 29, 2024. This engage BBA Digital transformatoion and strategy, as well as BBA Retail Management students in creatively representing 17 SDGs. With Ms. Leeza as esteemed judge, the competition served as a platform to enhance awareness and foster innovation thinking and sustainability. This event does not highlighted the importance of SDGs but also demonstrated the powerful role that creativity can play



Event Details	
Event Name	Expert Talk
Topic	Sustainable Solutions: Careers and cutting- Edge Materials Shaping our future
Date	2024-08-29 to 2024-08-29
Mode	Offline
Venue	TB-304
Organizer Name	CUIET (AE)
Resource Person	Mr. Roshan Kasulkar
No. of Participants	56
SDG No	SDG 7: Affordable and Clean Energy, SDG 9: Industry, Innovation and Infrastructure, SDG 12: Responsible Consumption and Production

Objective

1. Explore Career Opportunities in the Cement Industry
2. Highlight Innovations in Sustainable Materials
3. Align with Global Sustainable Development Goals
4. Promote Awareness of Industry Trends
5. Prepare Students for a Greener Future

Description

The event titled "Sustainable Solutions: Careers and Cutting-Edge Materials Shaping Our Future" is designed to inspire and inform undergraduate students about the vast career opportunities in the cement industry. This session will focus on innovative materials and technologies that are driving sustainability in the construction sector. Participants will explore how advancements in cement production, alternative materials, and sustainable building techniques are contributing to a greener and more sustainable future. The event will highlight how these innovations align with global Sustainable Development Goals (SDG 7: Affordable and Clean Energy, SDG 9: Industry, Innovation, and Infrastructure, and SDG 12: Responsible Consumption and Production). The aim of the event is to equip students with the knowledge and insights needed to pursue meaningful careers in the cement industry, while also preparing them to actively contribute to sustainability goals and the development of eco-friendly solutions within their future careers.

Outcomes

1. Increased Awareness of Career Opportunities
2. Enhanced Knowledge of Sustainable Technologies
3. Stronger Alignment with Global Sustainability Goals
4. Improved Readiness for Industry Challenges
5. Inspiration to Pursue Sustainable Careers



Event Name	3rd International Conference on Engineering and Science to Achieve the Sustainable Development Goals (ICASDG2024)
Date	2024-09-25 to 2024-09-26
Venue	Hybrid
Organizer	• Al-Furat Al-Awsat Technical University • Chitkara University, Punjab, India • İstanbul Kültür University, İstanbul, Turkey • Gazi University, Ankara, Turkey • Imam Ja'afar Al-Sadiq University, Al-Najaf Branch
Resource Person	• Prof. Dr. HaiderDahad Deputy Minister , Prof. Erdal IRMAK Professor, Dr. Charu Khosla Director Academics & Research for International Affairs
Number of Participants	319
SDGs Covered	SDG 3: Good Health and Well-being, SDG 4: Quality Education, SDG 7: Affordable and Clean Energy, SDG 13: Climate Action, SDG 8: Decent Work and Economic Growth
Duration	2 Days

About the Activity

The 3rd International Conference on Engineering and Science to Achieve the Sustainable Development Goals is set to take place on 25th-26th September 2024 in Turkey. This incredible event is a joint effort organized by Al-Furat Al-Awsat Technical University (Iraq) in collaboration with Chitkara University, Punjab, India With the theme "Education is the Key to Addressing Climate Change and Achieving Sustainable Development," the conference aims to highlight cutting-edge research and innovative solutions that directly align with the Sustainable Development Goals (SDGs). Day one featured two keynote speakers, Prof. Dr. HaiderDahad, Deputy Minister of Higher Education and Scientific Research for Scientific Affairs, Iraq and Dr. Charu Khosla, Director of Academics & Research for International Affairs at Chitkara University* , India. The day concluded with 86 papers presented in plenary sessions across two key themes: Environmental and Climate Changes, and Sustainable Engineering & Renewable Energy. On the second day, the distinguished keynote speaker, Prof. (Dr.) Erdal Irmak from Gazi University, delivered a highly insightful and thought-provoking lecture on the topic, "Current Developments in Electric Power Systems: Challenges and a Sustainable Future." His presentation shed light on the latest advancements in electric power systems and the pressing challenges faced in building a more sustainable future. Following this, Prof. (Dr.) Mohit Kumar Kakkar and Dr. Gurpreet Singh from Department of Applied Sciences,Chitkara University chaired and co- chaired respectively an engaging and intellectually stimulating online session. During the session, researchers from various esteemed universities across the globe presented their papers, all


aligned with the Sustainable Development Goals. Their contributions highlighted innovative research and forward-thinking approaches towards achieving global sustainability.

Objectives of the event

1. To Promote Interdisciplinary Research and Innovation
2. To Facilitate Knowledge Exchange and Best Practices
3. To Foster Collaboration and Partnerships
4. To Raise Awareness and Drive Policy Engagement

Outcome or Key take away from the event

1. Actionable Research Findings and Solutions
2. Strengthened Networks and Collaborations
3. Policy Recommendations and Guidelines
4. Increased Awareness and Capacity Building



3rd ICASDG-2024

Vision
Higher Education... is the way towards achieving the sustainable development goals.

The Message
Sustainable studies and research that advances education and meets its priorities by investing available capacities and potential.

Conference Aims
Developing the necessary capabilities in the field of sustainable development, including:

- Stimulating and supporting sustainable development research in the Iraqi universities.
- Highlighting the latest developments in economic, social, and environmental research in conjunction with sustainable development concepts.
- Discussing the role of partnerships in terms of supporting scientific research and community services.
- Unveiling the significance of voluntary work to achieving the goals of sustainable education.
- Supporting initiatives that contribute to improving business sustainability and the quality of public services for the governmental and private sectors.
- Developing a road map for sustainable development in the region beyond the COVID-19 pandemic.

Conference Topics

First Topic: Climate Changes:
The conference discusses solutions and contributions to:

- Improving the environment and development.
- Addressing the causes and finding solutions.
- Improving the agricultural impact and irrigation.
- Addressing the problem of drought.
- Enhancing food and water security.
- Global warming, carbon footprint, and harmful emissions.

Second Topic: Renewable Energy:
One of the most important goals of sustainable development is to provide clean and affordable energy.

- Renewable and clean energy technologies (solar energy, hydropower, hydrogen fuel).
- Energy-saving solutions.
- Reducing the use of fossil fuels.
- Electronic sensors and remote sensing systems.

Third Topic: Health Development and Health Indicators:
➤ Fighting the contagious and noncontagious diseases.
- Decrease the mortality rate of pregnant women and children under five years of age.
- Mental Health.
- Community health and ways to promote it.

Fourth Topic: Governance and Good Governance for Sustainable Economic Development:
➤ Transparency and anti-corruption.
- Human rights: civil, cultural, economic, political, and social.
- Economic development and its sustainability.
- Rule of Law, Legislation and Application.
- Green administrative and organizational practices.
- Support sustainable development through clean production practices.

Fifth Topic: Sustainable Education:
Achieving inclusive and quality education for all confirms the conviction that education is one of the most powerful and stable means of achieving sustainable development. In its fifth topic, the conference will discuss contributions to:

- Technology for Education.
- Employing education for sustainable development and how to apply it.
- Continuing Education, literacy: problems and solutions.

International Committee:

- Dr. Talal Yusuf / Central Queensland University – Australia
- Dr. Ali Al-Ahmer / Auburn University – USA
- Dr. Jonathan Barrett / University of Leicester – UK
- Dr. Emad Al-Mahdawi / Midkent College Training Services-UK
- Dr. Mohamed M. Awad / Mansoura University – Egypt
- Dr. Khalid Saleh / University of Southern Queensland – Australia
- Dr. Razed Al-Rhazai / Taffia Technical University (TTU) – Jordan
- Dr. Hassan Fadi Al-Doori / International College of Eng. & Mgmt. Oman
- Dr. Daniel Ekhodaghe / University of Southern Queensland – Australia
- Dr. Housssem Laidoudi / University of Science and Technology of Oran – Algeria
- Dr. Jamal Alkhatib / University of Wolverhampton – UK
- Dr. James Hol Kirk / University of Hull – UK

Preparatory Committee:

- Dr. Mohammed Almachmou / ATU / Chairman
- Dr. Fays Mohammed Ali / ATU / Member
- Dr. Bushar / Hamza / ATU / Member
- Dr. Mohit Kumar Kakkar / Chitkara University / Member
- Dr. Mahdi Hafi Kadhum Abouabooq / ATU / Member
- Dr. Ali Najah Al-Shamrani / ATU / Member
- Dr. Ahmed Razaq Al-Munoz / ATU / Member
- Dr. Gurpreet Singh / Chitkara University / Member
- Dr. Mustafa Kadhim Tagi Alyousfi / ATU / Member
- Mueen M. Abbood / ATU / Member

Scientific Committee:

- Dr. Ahmad Ghannam Wadday / ATU / Chairman
- Dr. Athar Kadhim Hadi / ATU / Member
- Dr. Dhafer Munta Hashim AL-Hasnawi / ATU / Member
- Dr. Mohit Kumar Kakkar / Chitkara University / Member
- Dr. Fadil Abdul Abbas Abadi / ATU / Member
- Dr. Ali Najah Al-Shamrani / ATU / Member
- Dr. Ahmed Razaq Al-Munoz / ATU / Member
- Dr. Gurpreet Singh / Chitkara University / Member
- Dr. Dhanum Hasan Abid / ATU / Member
- Dr. Dendy Adanta / University Sriwijaya, Indonesia / Member


Paper Submission & Registration:
Authors are invited to submit their original papers online through Conference website. Only electronic paper submission will be considered. For paper submission and registration details refer conference website:
<https://icasdg.atu.edu.iq>

*Registration and paper submission is free for Authors at the following link:
<https://icasdg.atu.edu.iq/index.php/icasdg/24user/register?source=1>


However, following publication charges are applicable upon acceptance of the papers:

Participation	International Journal of Sustainable Development (IJSDS)	Journal of Sustainable Development (JSDS)	Journal of Sustainable Development Research (JSDSR)
Domestic	Free	Free	Free
Foreign	Free	Free	Free

Review Process, Publication and Indexing
All the submitted papers shall be checked for plagiarism, blind reviewed by experts on the basis of originality, significance and research contribution. Accepted papers will be published in Scopus indexed Journals.



<https://atu.edu.iq>




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Conference Website: <https://icasdg.atu.edu.iq>

Conference Email: icasdg@atu.edu.iq

Telegram Channel: @ICASDG

Mob: +918194918191





Dr Mohit Kumar kakkar 242_ICASDG2024_(2-2) ... Dr Mohit Kumar Kakkar بحث رقم 545

Dr Mohit Kumar kakkar 242_ICASDG2024_(2-2)_Rosa Dr Mohit Kumar Kakkar بحث رقم 545

You are viewing Dr. Prof. Dhafer Manea Hachim's screen View Options

<https://drive.google.com/file/d/1vVQYpGJz0rY2wTn4ZDW80fAPpypFF/view>

Solar Tracking System:

DAI Qinghui et al. presented automated sun tracking for photovoltaic panels. They added actuators and sensors to the system. As the sun travels along the sky, the sensors become imbalanced, altering the panel's position and further diverting its power. These actuators adjust the degree of tilt of the solar panel to ensure that it faces the sun straight on. The study's findings increased electricity generation by 44.2%, even in areas with poor lighting conditions.

Fabio, Rolf, et al. used photo resistors to detect solar motions, as well as electrically powered motors that change the location of a solar cell-mounted board.

TABLE 1. Efficiencies of different conditions

System	Control panel with tracking	Control panel without tracking	Sunny panel with tracking	Sunny panel without tracking
P peak	7.48 W	6.38 W	3.98 W	2.810 W
Efficiency %	7.13 %	6.08 %	3.8 %	2.653 %

00:02:42



Event Name	Pre-conference Webinar
Date	30 th September 2024
Venue	GMeet
Department	Centre for research Impact and Outcome
Resource Person	Prof. Binnur Sagbas
Number of Participants	180
SDGs Covered	SDG 3, 7, 9, 12, 13
Duration	2:00 Hrs.

About the Activity

In the contemporary, rapidly evolving landscape, numerous universities are organizing pre-conference webinars to disseminate innovative concepts related to industrial research and development. These virtual gatherings provide a platform for experts to engage in discussions about emerging technologies and product advancements that can foster industry growth. By facilitating collaboration between academic institutions and businesses, these webinars promote knowledge exchange. This collaboration can enhance job prospects and contribute to sustainable employment, thereby supporting industry success and benefiting the wider community. Key discussion points encompassed the principles of additive manufacturing (AM), sustainable materials, and their relevance to the Sustainable Development Goals (SDGs). The event highlighted significant progress in AM towards achieving various SDGs, including SDG3, SDG7, SDG9, SDG12, and SDG13. Additionally, the event attracted over 90 participants from diverse countries, including Indonesia, the USA, Uzbekistan, Malaysia, and Pakistan. In India, attendees hailed from various regions, including Tamil Nadu, Kerala, West Bengal, Uttarakhand, Uttar Pradesh, Punjab, New Delhi, and Maharashtra.

Webinar Objectives

Some of the key objectives covered during this presentation are:

- Fundamentals of Additive Manufacturing.
- Materials Used in Additive Manufacturing.
- Additive Manufacturing and Sustainable Development Goals (SDGs).
- Overview of Sustainable Development Goals (SDGs)
 - AM's Contribution to SDG 3: Good Health and Well-being.
 - AM's Contribution to SDG 7: Affordable and Clean Energy.
 - AM's Contribution to SDG 9: Industry, Innovation, and Infrastructure.



- AM's Contribution to SDG 12: Responsible Consumption and Production.
- AM's Contribution to SDG 13: Climate Action.
- Challenges and Future Directions.

Glimpse of the Event



Event Name	Innovate and Create with Arduino: From Concept to Prototype
Date	3 rd October 2024
Venue	LARVA Lab
Organizer	Chitkara International College
Resource Person	Prof.(Dr.) Rajneesh Talwar
Number of Participants	19
SDGs Covered	3,4,7,9,11
Duration	2 hours

About the Activity

The "Innovate and Create with Arduino" workshop is a hands-on activity designed to guide participants through the process of taking a concept from an idea to a fully functional prototype. Using Arduino, an open-source electronics platform, participants will learn how to design, code, and build interactive electronic projects. Whether it's automating a system or creating a smart device, this workshop will empower participants to bring their ideas to life.

Objectives

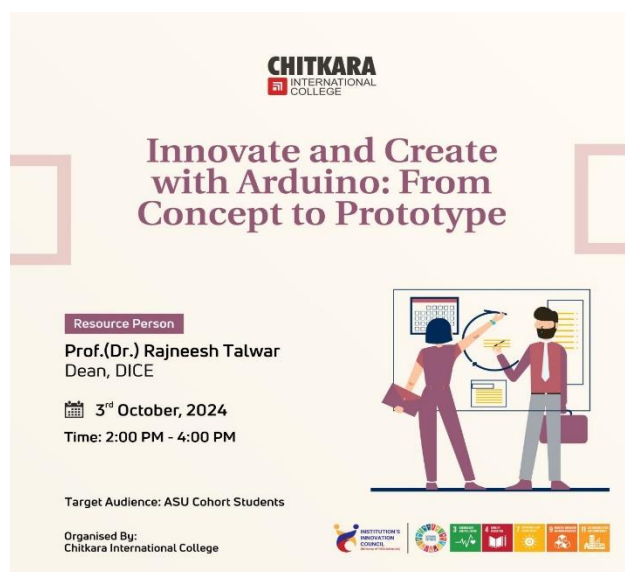
- Teach participants how to translate ideas into working prototypes using Arduino, basic electronics, and coding.
- Encourage creative problem-solving and innovative thinking through interactive projects.
- Provide a foundational understanding of circuit design, sensor integration, and programming logic in a real-world context.

Key Highlights

Participants will receive step-by-step instructions on setting up Arduino, writing code, and assembling their projects.

Outcomes

- Gain hands-on experience in using the Arduino platform, sensors, actuators, and other electronic components.
- Participants will sharpen their design thinking skills and approach problems with a creative, solution-driven mindset.



- Build teamwork and collaboration skills through group projects and presentations.



Event Details	
Event Type	Conference
Topic	2nd International Conference on Emerging Technology and Sustainable Solutions
Date	2024-10-08 to 2024-10-09
Mode	Hybrid
Venue	Explorium
Organizer Name	Dr. Isha Gupta and Dr. Rubina Dutta
No. of Participants	69
SDG No	3,4,7,8,9,11,17

Objective

Facilitate knowledge exchange on emerging technologies and innovations.
Promote sustainable engineering practices to address environmental challenges.
Foster multidisciplinary collaboration among academia, industry, and government.
Provide skill-building workshops on advanced, sustainable technologies.

Description

The Department of Electronics and Communication Engineering successfully hosted the 2nd International Conference on Emerging Technology and Sustainable Solutions (ICETSS 2024) on October 8-9, 2024, at Chitkara University, Punjab. The conference commenced with a ceremonial lamp-lighting, followed by Words of Wisdom from Dr. Madhu Chitkara, Hon'ble Pro Chancellor, who emphasized the vital role of innovation in addressing global sustainability challenges. Dr. Shivani Malhotra, Dean of ECE, then outlined the conference's objectives, stressing the importance of sustainable practices in modern engineering. On Day 2, workshops were conducted in an online mode, allowing participants worldwide to gain practical insights into advanced topics remotely. Simultaneously, paper presentations across various tracks were held in an online format, enabling a broader range of contributions from researchers and experts. Keynote speakers, including Dr. Parveen Kaushik from Exigo Recycling Pvt. Ltd. and Mr. Bhavya Jain from the Display Solutions Group, delivered insightful talks on sustainable e-waste management and advancements in eco-friendly display technology. A panel discussion featuring experts such as Dr. Sneha Kabra, Dr. Harpreet Singh Jatana, and Mr. Inderveer Singh highlighted the essential collaboration needed among academia, industry, and government to drive sustainable solutions. The conference featured four technical tracks, each focusing on vital areas of emerging technologies and sustainability: Disruptive Emerging Technologies chaired by Dr. Imali Dias, Dr. Keshav Sood, Dr. Sushil Narang Securing Cyber Physical Systems chaired by Dr. Pawan Kumar, Dr. S.N Panda Sustainable Communication

Networks chaired by Dr. Devender Pal Singh, Dr. Nitin Saluja Device Development in Emerging Technologies chaired by Dr. Harpreet Singh Jatana, Dr. Sagar Juneja In addition, hands-on workshops on cutting-edge topics such as Augmented Reality, IC design, MATLAB, and Artificial Intelligence were conducted by experts like Dr. Neha Tuli, Mr. Shivam, Mr. Anish Kumar, and Dr. Neeraj Goel. These sessions provided participants with valuable skills and in-depth knowledge. ICETSS 2024 proved to be an impactful platform for knowledge-sharing, skill-building, and networking, reinforcing the Department of ECE's dedication to fostering innovation and sustainable technological solutions.



Outcomes

Participants acquired in-depth knowledge and hands-on skills in sustainable technologies, reinforcing their expertise in critical areas of innovation.

The conference facilitated meaningful research collaborations, fostering partnerships between academia and industry to drive sustainable advancements.

Attendees expanded their professional networks, laying the foundation for future knowledge-sharing and collaborative initiatives in emerging technologies.



Event Name	First International Conference on Smart Computing and Communication for Sustainable Convergence (ISCCSC-2024)
Date	18 October 2024
Venue	Pierre Hall, Le Corbusier Block
Department	Centre for Research Impact and Outcome (CRIO)
Resource Person	Dr. Brinda V (ISRO), Dr. Sanjeev Kumar (Principal Scientist in Biomedical Applications), Dr. Jyoteesh Malhotra (NIT Delhi), and Dr. John Jose
Number of Participants	
SDGs Covered	All SDG's
Duration	2 Hrs.(approx.)

About the Activity

The **First International Conference on Smart Computing and Communication for Sustainable Convergence (ISCCSC-2024)** was organized to bring together researchers, academicians, and industry experts to discuss advancements in smart computing, communication, and sustainable development. The event fostered knowledge exchange, collaboration, and innovation to address global challenges in these fields.



CHITKARA UNIVERSITY     

1st International Conference on
Smart Computing & Communication for Sustainable Convergence

ISCCSC 2024

On 18th October, 2024
Hybrid Mode (In-Person and Online)

Hosted by: Chitkara University, Punjab
and California State University, Fullerton, US

TEMAES

- Smart Computing**
 - Artificial Intelligence
 - Data Mining and Text Mining
 - Machine learning
 - Internet-of-Things (IoT)
- Sustainable communication**
 - Emerging communication protocols
 - Beyond 5G and IoT
 - Intelligent Reflecting surfaces
 - Mobile Technologies
 - 5G/6G Communication Networks
- Technological Convergence and Applications**
 - Convergence of multiple technologies for new network solutions
 - Intelligent communication for Convergence
 - Hybrid information Technology
 - Perseverant/ubiquitous computing and systems
- Inspiring Technology Solutions for Sustainable Technologies**
 - Smart and Micro Grids
 - Bio Inspired Robotics
 - Electric vehicles
 - Industrial and home applications

IMPORTANT DATES

Paper Submission starts 7th May, 2024	Registration Opens 10th May, 2024	Conference date 18th October, 2024
Paper Submission Closes 16th September, 2024	Registration Closes 16th September, 2024	

CO-PATRON
Dr. Amit Mittal
Pro Vice-Chancellor,
Centre for Research Impact &
Outcome (CRIO)
Chitkara University, Punjab, India

GENERAL CHAIR
Dr. Shashi Rani
Professor & Director (Research)
Centre for Research Impact &
Outcome (CRIO)
Chitkara University, Punjab, India

CO-CONVENOR
Dr. Ashu Taneja
Assistant Professor
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REGISTRATION AND FINANCE CHAIR
Dr. Anshu Sharma
Assistant Professor (Research)
Centre for Research Impact &
Outcome (CRIO)
Chitkara University, Punjab, India

All invited and extended papers will be published in following Journals (Scopus and ISI):
Intelligent Decision Technologies (Sage) | International Journal of Information Technology (Springer)
Decision Analytics Journal, Elsevier (ISSN 2772-4602) | Healthcare Analytics, Elsevier (ISSN 2772-4422)

PUBLICATIONS PARTNERS
 

Organised by Centre for Research Impact and Outcome, Chitkara University, Punjab, India

To know more visit: <https://www.chitkara.edu.in/iscsc-2024/>

Workshop Objectives

1. **Raising Awareness:** To highlight the importance of smart computing and sustainable communication technologies in addressing real-world challenges.
2. **Knowledge Sharing:** To provide a platform for experts to share cutting-edge research, emerging trends, and technological innovations.
3. **Industry-Academia Collaboration:** To bridge the gap between academia and industry by fostering meaningful discussions and partnerships.
4. **Action Planning:** To develop actionable strategies that encourage innovation and research-driven solutions for sustainable convergence.
5. **Conclusion and Q&A:** The conference concluded with a summary of key discussions, followed by an interactive Q&A session where participants engaged with experts to further enrich their understanding.

ISCCSC-2024 was a significant step toward fostering innovation in smart computing and sustainable communication. By facilitating expert discussions and collaborative engagements, the conference contributed to advancing research and industry applications in these domains. The organizers express their gratitude to all participants and look forward to continued efforts in this field.

Next Steps

Participants are encouraged to remain engaged, apply their learnings, and contribute to ongoing research and development efforts. Follow-up meetings, research collaborations, and project discussions will be scheduled to ensure continued progress and knowledge exchange.

Key Highlights

1. **Expert Talks:** Distinguished speakers, including Dr. Brinda V (ISRO), Dr. Sanjeev Kumar (Principal Scientist in Biomedical Applications), Dr. Jyoteesh Malhotra (NIT Delhi), and Dr. John Jose (IIT Guwahati), shared insights on the latest advancements in smart computing and communication.
2. **Networking Sessions:** The conference provided opportunities for researchers, academicians, and industry professionals to connect, fostering collaborations for future projects.
3. **Workshops and Technical Sessions:** Sessions on emerging topics, such as AI-driven communication, IoT, cybersecurity, and green computing, allowed participants to gain hands-on knowledge and insights from experts.

4. Panel Discussions: Experts, industry leaders, and academicians engaged in discussions on the role of sustainable technologies in shaping future innovations. Themes included policy frameworks, industry-academia partnerships, and ethical considerations in AI and communication technologies.

Workshop Outcomes

1. Increased Awareness: The event successfully highlighted the importance of sustainable computing and communication in driving innovation and addressing global challenges.
2. Actionable Knowledge: Participants gained practical insights, research findings, and strategies to implement in their respective fields.
3. Future Collaboration: New research collaborations and industry-academic partnerships were formed, laying the groundwork for future initiatives in sustainable computing and communication.

Glimpse of the Event



Event Report

Title of the Event	UN Day Celebration		
Date of the Event	24 th October 2024	Department	CUIET-AE
Venue	TB-207, Tesla Block	SDG No.	4, 7, 9, 11, 12, 13, 17

Description

In this event students of CUIET-AE showcase sustainable activities, where students presented projects that focused on advancing vertical transportation and automation skills, all closely aligned with the Sustainable Development Goals (SDGs) 4 (Quality Education), 9 (Industry, Innovation, and Infrastructure), 11 (Sustainable Cities and Communities), 12 (Responsible Consumption and Production), 13 (Climate Action), and 17 (Partnerships for the Goals).

In a dynamic exhibition space, students from various engineering departments set up displays and live demonstrations of their work, with each project designed to address real-world challenges in urban transportation, infrastructure development, and automation. Some of the standout projects included advanced elevator and escalator prototypes that utilized energy-efficient technologies, which aimed to support sustainable city growth and contribute to SDG 11.

To promote SDG 4, the event also included interactive workshops where students shared their technical skills and knowledge with peers, encouraging greater access to education in vertical transportation and automation. Collaborating across disciplines, teams explored automation in vertical farming to address food security in cities, tying their efforts to SDG 9 by leveraging industry partnerships and novel technologies. Students emphasized climate-friendly designs, contributing to SDG 13 by focusing on renewable energy integration and reducing the carbon footprint of vertical transportation systems.

Outcomes

- 1 The students, faculty, and attendees enhanced their knowledge about the importance of SDGs 4, 9, 11, 12, 13, and 17 and their relevance to engineering fields.
- 2 Recognition and appreciation of innovative, sustainable solutions in vertical transportation and automation, encouraging students to apply these practices in future projects.
- 3 Inspiration for students to pursue additional projects aimed at sustainability and urban development challenges, supporting long-term educational goals and innovation.
- 4 Increased emphasis on developing engineering solutions that incorporate renewable energy and reduce environmental impact, supporting climate action goals.
- 5 Raised public awareness about engineering's role in sustainable development and its impact on everyday life, fostering community engagement with the SDGs



Event Name	LET'S GET SET ...GO....TO THE SUSTAINABILITY FAIR
Date	24 th October, 2024
Venue	Alpha Zone
Organizer	Centre of Excellence for Sustainability -CES, Chitkara University, Panjab
Resource Person	Academic and Non-academic Team, DoE, Chitkara University
Number of Participants	47
SDGs Covered	1 to 17
NEP 2020	11.7
Module	All Twelve Modules
Duration	One -day

About the Activity

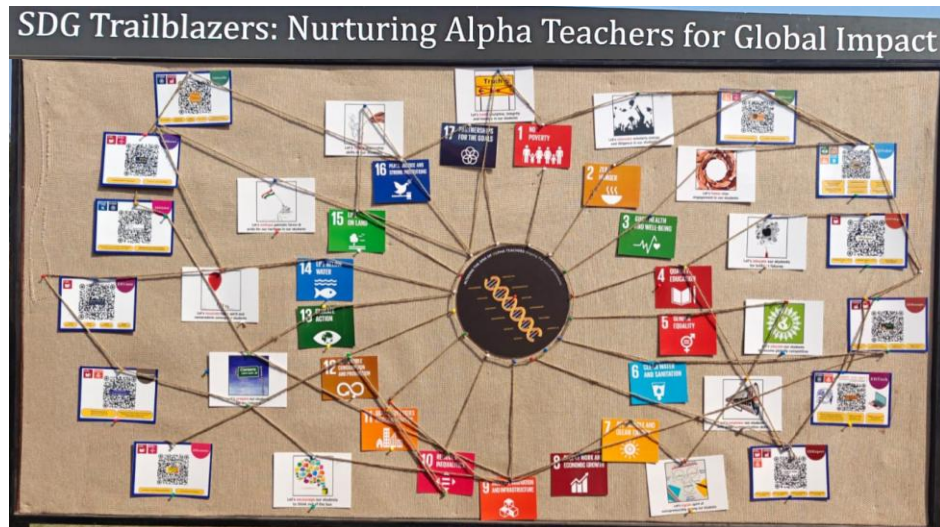
Centre of Excellence for Sustainability -CES, Chitkara University, Punjab hosted a fair with the theme “**LET'S GET SET ...GO....TO THE SUSTAINABILITY FAIR**” on 24th October, 2024. The objective of the event was to highlight contributions of each department of the university towards UN SDGs.

The Department of Education, Chitkara University had the opportunity to exhibit posters and infographics on a variety of scholastic and co-scholastic activities incorporated into its curriculum to positively impact the achievement of the UN Sustainable Development Goals under the theme, “**SDG Trailblazers: Nurturing Alpha Teachers for Global Impact**”. An infographic with four layers in the shape of a wheel displayed the twelve B.Ed. course modules in the centre, followed by circles of the UN SDGs, the Chitkara University Charter and the evidences of various activities conducted by the department in the form of QR codes formed the outer layers. A web of interrelated themes and practices eventually became self-explanatory, showing how the B.Ed. curriculum encourages activities related to the UN SDGs. To name a few, these activities include action research, the creation of comic strips for young readers, online content development, project work, integrating these goals with lesson plans, creating picture books for the students, and using teacher Excel sheets to get involved with the cause. Moreover, the fair got its allure with games like ‘Jigsaw Puzzle’ and ‘Snakes and Ladder’.

It was all the more inspiring when **Dr Madhu Chitkara, Hon’ble Pro Chancellor, Chitkara University**, encouraged and appreciated the efforts of each member of the department. Dr



Sangeeta Pant, Dean, Department of Education, Chitkara University, applauded the endeavours of the faculty and Dr Parul Sood, Assistant Dean, Department of Education, Chitkara University appreciated the team spirit of the faculty. Overall, it was a great learning experience for the faculty and the students.



Name of Activity	UN DAY 2024 CELEBRATIONS
Name of Organizing Institute	Centre of Excellence for Sustainability in collaboration with Go Global
Mode	Offline
Date	24 Oct 2024
Duration	One Day
Venue:	Alpha Zone and Exploratorium
SDG	All SDGs

United Nations Day is an **annual commemorative day** that reflects the official creation of the United Nations on October 24, 1945.

The UN DAY 2024 was celebrated at CHITKARA UNIVERSITY, Punjab, India with a lot of pomp and splendor!!

On **24th October 2024**, the Centre of Excellence for Sustainability of Chitkara University, Punjab Campus, celebrated **UN Day**. The celebrations, as designed by the Centre, under the Chairmanship of **Sqn Ldr (Dr) Rina Angel** included a **Sustainability Fair, a Fireside chat and some cultural performances** with a cross-cultural understanding, sustainability awareness, and institutional growth.

This UN Day celebrations marked yet another milestone in the university's commitment to global citizenship, cultural understanding, and sustainability.

- **Highlight the Importance of UN Day and SDGs Awareness**

Described the significance of UN Day and the university's commitment to the United Nations' Sustainable Development Goals (SDGs), underlining the necessity of educating students on global issues related to sustainability.

- **Document the Fashion Show as a Creative Expression of the SDGs**

Provided insights into the fashion show's theme centered around the 17 UN SDGs, showcasing how students used fashion as an innovative medium to raise awareness on each goal.



• Showcase Sustainability Initiatives at the Sustainability Fair

Summary of the Sustainability Fair, with nearly 40 stalls, that presented ideas, projects, and actions related to sustainability. Detail the participation of various colleges, schools, and departments in demonstrating their commitment to environmental conservation.

• Acknowledge the Leadership and Inauguration by Dr. Madhu Chitkara

Emphasized the role of Dr. Madhu Chitkara, Pro Chancellor of Chitkara University, in supporting and encouraging sustainability initiatives by inaugurating the fair and engaging with participants at each stall.

• Promote a Campus-Wide Commitment to Green Practices

Captured the event's objective of fostering a culture of environmental consciousness across the campus, highlighting collaborative efforts by students, staff, and faculty in contributing to a greener Earth.

• Encourage Further Engagement in Sustainability Efforts

Inspire the campus community and external readers to engage with and support sustainability efforts, emphasizing the impact of individual and collective actions toward achieving the UN SDGs.

• Celebrate the Event's Success and Impact on the Campus Community

Reflect on the success of the UN Day Celebration, capturing feedback from participants, the impact of the event on attendees, and future plans to continue promoting sustainable practices across the university.

Guidelines for Setting Up Stalls

As part of our commitment to sustainability, all stalls must focus on eco-friendly themes. Stall can include:

- Selling sustainable merchandise (eco-friendly products, upcycled items) -
- Hosting activities that promote sustainability (workshops, demonstrations)
- Offering products or services that contribute to sustainable living (e.g., zero-waste solutions, renewable energy products)

To ensure a smooth experience, we had outlined a few key guidelines for the event:

- **Booking and Payment:** Confirm availability and eligibility with the event organizer before making any payments.
- **Setup and Presentation:** Stalls should use minimal and sustainable materials for decoration.



CHITKARA UNIVERSITY  **CHITKARA UNIVERSITY**  Centre of Excellence for Sustainability

STALL AT SUSTAINABILITY FETE

Topic	Sustainability Stalls
Date	24th October, 2024
Venue	Beta & Delta Ground
SDG	8, 9 & 12
Time	09:30 AM – 4:00 PM

Deadline: 21st October

Click / Scan the QR for Registration & Payment

Organised by: Centre of Excellence for Sustainability

- **Waste Management:** Stallholders are responsible for managing waste sustainably, with proper segregation.
- **Electricity Usage:** Please use electricity responsibly and avoid high-power-consuming equipment unless approved in advance.

A VISIT TO THE SUSTAINABLE STALLS



At the Sustainability fair, with nearly forty stalls overflowing with ideas and actions undertaken on Sustainability, it was a fair that was one of its kind, where all colleges, schools and departments of the Campus showcased their contributions towards keeping the Earth Green! Hon'ble and Revered Pro Chancellor of Chitkara University, the very elegant Dr. Madhu Chitkara, inaugurated the Fair and was at each stall to encourage the students, staff and faculty. As always, she patiently understood what each contribution was, and shared her thoughts on how they could contribute even better and other ideas that they could work on!! She encouraged each participant to continue to work as passionately as they were towards the noble cause of staying green.



Dr. Sumit Chowdhury, Founder and CEO of GreenEarthX also visited all the stalls. While he interacted with all the students as they explained their projects, he went on and tried many of the projects created by the students, appreciated research projects, happily availed some of the health checkups at the Fair, and understood the efforts of Infrastructure operations.

Students, faculty and staff from all colleges and schools visited the Fair and so did the International Faculty of Global Week. Students presented innovative projects and ideas, with startups rooted in sustainability principles joining the event. One

team performed a nukkad naatak, while several departments organized games to creatively



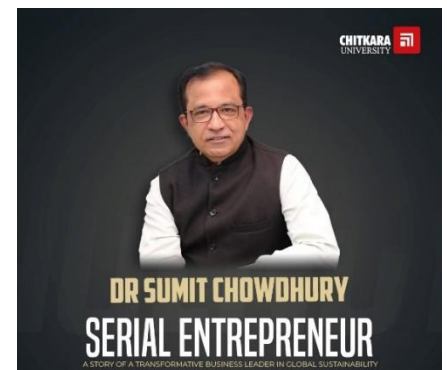
promote the message of sustainability.



FIRESIDE CHAT



A fireside chat featuring **Dr. Sumit Choudhary**, Founder and CEO of GreenEarthX and a serial entrepreneur in Global Sustainability moderated by our esteemed Vice Chancellor, **Dr. Sandhir Sharma**, delved into global trends, sustainability, and the crucial role of educational institutions in advancing the UN Sustainable Development Goals (SDGs). This insightful conversation, which was attended by our students and faculty, including the **international faculty who are on campus as part of the Global Week**, emphasized the power of education in



driving transformative change.



FASHION SHOW



The event then transitioned to an impactful fashion show themed around the 17 UN SDGs. Each ensemble illustrated the significance of these goals, while also addressing the dire consequences of neglecting them. This visual presentation, where models of Panache from the Office of Student Affairs worn costumes created from discarded clothes

by the School of Fashion Design captivated the audience with its thought-provoking portrayal of environmental and social responsibility.



A VISIT TO THE YELLOW POINT FARM



In the visit to the Yellow Point Farm by Dr. Sumit Chowdhury, the officials showcased the different sustainability ventures (more than a dozen ventures) including Miyawaki forest, biogas plant, mushroom production, organic farming, mechanised decomposer, vermicomposting pits, the STP plant, and much more.



EXCELLENCE FOR SUSTAINABILITY



Dr. Sumit Chaudhary inaugurated the newly established Centre of Excellence for Sustainability, a pioneering initiative aimed at advancing research, innovation, and practical solutions in sustainable development.



Event Name	Expert Talk On Hands on Workshop on Innovative Multiple Integral and Curve Tracing
Date	2024-11-05 to 2024-11-05
Venue	Faraday Hall, Edison Block, Chitkara University
Organizer	Dr. Nidhi Bansal Garg
Resource Person	Dr. Mohit Kumar Kakkar
Number of Participants	69
SDGs Covered	SDG 7: Affordable and Clean Energy, SDG 11: Sustainable Cities and Communities, SDG 13: Climate Action
Duration	2 hrs

About the Activity

The Department of Applied Sciences, Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, organized an expert talk on "Hands on workshop on Innovative Multiple Integral and Curve Tracing" in Faraday Hall (Edison Block) under the aegis of SDG "Affordable and Clean Energy, Sustainable Cities and Communities Climate Action (SDG no. 7, 11 and 13)" 1:30 pm onwards. Total 69 participants attended this talk. The aim of the expert talk is to provide students with hands-on skills in computational methods for evaluating multiple integrals and analyzing curves, using software tools or programming for more efficient calculations. Also to help students build a solid understanding of multiple integrals and curve tracing, fundamental tools in calculus and engineering mathematics. The resource person for the talk is Dr. Mohit Kumar Kakkar Dean of Applied Sciences in the Chitkara University Institute of Engineering and technology. Dr. Reetu Malhotra, Professor (PI), Department of Applied Sciences, Chitkara University Institute of Engineering and Technology, Chitkara University Punjab expressed thanks to resource person for encouraging and inspiring the students for this talk.



Objectives of the event

1. To provide participants with a strong foundation in multiple integrals and curve tracing.
2. To teach participants effective methods for tracing curves, understanding their properties, and visualizing complex functions.
3. To explore advanced topics related to multiple integrals and curve tracing independently, creating a foundation for further study.
4. To help participants gain better intuition for multivariable calculus concepts through graphical representations of multiple integrals and curves.

Outcome or Key take away from the event

1. Participants build a strong foundational knowledge, preparing them to engage with advanced topics in multivariable calculus and applied mathematics.
2. Participants understand how multiple integrals and curve tracing are applied in fields like physics, engineering, computer science, and data science.
3. Participants understand tools and software used for multiple integrals and curve tracing, improving their computational efficiency and confidence.
4. Participants learn the approach to tackling multidimensional calculus problems, which can be applied to their academic or professional work.



Event Type	Expert Talk
Topic	Aerial Mobility: Navigating the Challenges and Opportunities of eVTOL
Date	2024-11-26 to 2024-11-26
Mode	Offline
Organizer Name	Dr. Sonam Aggarwal, Assistant Professor, DECE, CUIET, Chitkara University, Punjab
Resource Person	Mr. Kuljeet Sandhu CEO, Nalwa Aero Pvt. Ltd., Mr. Nelson Salas CTO, Nalwa Aero Pvt. Ltd.
No. of Participants	127
SDG No	SDG 4: Quality Education, SDG 7: Affordable and Clean Energy, SDG 8: Decent Work and Economic Growth, SDG 9: Industry, Innovation and Infrastructure, SDG 11: Sustainable Cities and Communities, SDG 12: Responsible Consumption and Production, SDG 13: Climate Action, SDG 15: Life on Land, SDG 17: Partnership for the Goals

Objective

- Participants will be able to:
Understand the fundamental concepts and applications of eVTOL technology in modern urban mobility.
- Identify the key challenges, such as regulatory hurdles and technological limitations, associated with eVTOL adoption.
- Explore the opportunities eVTOL systems present for sustainable and efficient transportation solutions.
- Gain insights into real-world advancements and industry practices shared by experts from Nalwa Aero.
- Engage in meaningful discussions about the future of aerial mobility and its societal, economic, and environmental impacts.
- Draw inspiration for research, innovation, and entrepreneurial ventures in the field of aerial mobility.

Description

The Department of Electronics and Communication Engineering, in collaboration with the Centre for Global Education, successfully organized an enlightening expert talk titled “Aerial



CHITKARA UNIVERSITY | Centre for Global Education

Aerial Mobility: Navigating the Challenges and Opportunities of eVTOL

Date: 26th November, 2024 | Time: 10:00 AM to 12:00 NOON
Venue: Faraday Hall, Second Floor, Edison Block

Resource Persons

Kuljeet Sandhu
CEO
Nalwa Aero Pvt. Ltd.

Nelson Salas
CTO
Nalwa Aero Pvt. Ltd.

Conveners

Dr. Shivani Malhotra
Dean, Software Engineering
CUIET, Chitkara University, Punjab

Dr. Rubina Dutta
Academic Head, Software Engineering
CUIET, Chitkara University, Punjab

Faculty Coordinator

Dr. Sonam Aggarwal
Assistant Professor, ECE
CUIET, Chitkara University, Punjab

Organized by:
Centre for Global Education
Department of ECE
CUIET, Chitkara University, Punjab

Mobility: Navigating Challenges and Opportunities of eVTOL” on 26th November 2024. This event brought together industry expertise and academic curiosity, offering a deep dive into the rapidly growing field of electric vertical takeoff and landing (eVTOL) technology. The session featured two distinguished speakers: Mr. Kuljeet Sandhu, CEO of Nalwa Aero, and Mr. Nelson Salas, CTO of Nalwa Aero, both of whom are trailblazers in the aerial mobility sector. The speakers shared their extensive experience and knowledge, shedding light on the transformative potential of eVTOLs in urban and interurban transportation. Mr. Kuljeet Sandhu provided an entrepreneurial perspective, discussing the strategic vision of Nalwa Aero, market trends, and the opportunities that eVTOL technology presents for revolutionizing mobility. He emphasized the role of innovation, infrastructure, and business strategies in making eVTOL solutions commercially viable. Complementing this, Mr. Nelson Salas offered a detailed technical overview of eVTOL systems, focusing on advancements in propulsion technologies, battery efficiency, and the critical role of design innovation. The event also addressed pressing challenges, such as regulatory frameworks, operational safety, and environmental sustainability. It provided a platform for an engaging dialogue during the interactive session, where students, faculty, and researchers posed insightful questions to the experts. Discussions ranged from the societal and economic implications of eVTOL adoption to the future roadmap for integrating this technology into mainstream transportation networks. The expert talk served as a comprehensive introduction to the dynamic world of eVTOL, inspiring participants to delve deeper into research, innovation, and entrepreneurship in the aerial mobility domain. By bridging the gap between industry and academia, this event highlighted the importance of interdisciplinary collaboration in tackling the challenges and leveraging the opportunities that eVTOL technology offers. The session concluded with a vote of thanks, acknowledging the valuable contributions of the speakers, the organizing team, and the enthusiastic audience.

Outcomes

- Participants gained a comprehensive understanding of the eVTOL landscape, including its challenges, opportunities, and future potential.
- The session fostered a deeper interest among students and faculty in aerial mobility, encouraging interdisciplinary research in this emerging field.
- Strengthened academic-industry connections through collaboration with experts from Nalwa Aero.
- Participants were motivated to explore entrepreneurial ventures and technological innovations in aerial mobility.
- An enriched understanding of sustainability and its integration with eVTOL technology for future-ready transportation solutions.



Event Details

Event Type	Symposium
Topic	Visionary Pathways: A Symposium on Innovation, Technology, and Research
Date	2024-12-19 to 2024-12-19
Mode	Online
Organizer Name	Dr. Sonam Aggarwal
No. of Participants	129
SDG No	SDG 4: Quality Education, SDG 7: Affordable and Clean Energy, SDG 8: Decent Work and Economic Growth, SDG 9: Industry, Innovation and Infrastructure, SDG 11: Sustainable Cities and Communities, SDG 12: Responsible Consumption and Production, SDG 13: Climate Action, SDG 15: Life on Land, SDG 17: Partnership for the Goals

Objective

- Students will be able to:
Showcase their creativity and innovation in emerging technologies.
- Present original ideas and research in the fields of sustainability, IoT, VLSI, EVs, eVTOLs, and AI/ML.
- Develop and enhance their technical communication skills through poster presentations.
- Gain insights and constructive feedback from industry experts and academicians.
- Foster a spirit of innovation and contribute to sustainable solutions for future advancements

Description

The Teaching and Learning Centre, Department of Electronics and Communication Engineering (ECE), in collaboration with the Centre for Global Education and the Institution's Innovation Council (IIC), successfully organized a highly engaging symposium titled "Visionary Pathways: A Symposium on Innovation, Technology, and Research". This event was held on 19th December 2024 at the Delta Ground, Chitkara University, and it provided a dynamic platform for students to showcase their creativity, innovative ideas, and groundbreaking research in cutting-edge



CHITKARA UNIVERSITY | Centre for Global Education

VISIONARY PATHWAYS: A SYMPOSIUM ON INNOVATION, TECHNOLOGY, AND RESEARCH

Join us for an exciting event to showcase creativity, innovation, and research in the fields of Technology and Innovation! This symposium provides an excellent platform for students to present groundbreaking ideas and engage with experts in various domains through poster presentation.

19th December 2024 Time: 10:00 AM Onwards
Venue: Delta Ground

The Event Showcases Four Exciting Categories:

- Emerging Technologies for Sustainable Future
- IoT and VLSI
- EVs (Electric Vehicles) and eVTOLs (Electric Vertical Take-off and Landing)
- Artificial Intelligence/Machine Learning

Participation Guidelines:

- Open to individuals and teams (maximum of 5 members per team)
- Presentations should align with one of the four categories & demonstrate original ideas
- Poster should be in A3 size

Exciting Prizes
Await in Different Categories

Organised by
Teaching and Learning Centre
Department of Electronics and
Communication Engineering
CUIET, Chitkara University, Punjab

For any query feel free to contact
Dr. Sonam Aggarwal
9996168922 | sonam.aggarwal@chitkara.edu.in

Scan the QR code to Register

Last date to Register
17th December, 2024

fields of technology and innovation. The symposium aimed to inspire students to explore emerging technologies and foster a collaborative environment for research and development. Participants were encouraged to present their work in four focused categories: Emerging Technologies for a Sustainable Future, IoT and VLSI, EVs and eVTOLs (Electric Vertical Take-off and Landing), and Artificial Intelligence/Machine Learning. These categories were thoughtfully designed to align with current technological trends and address pressing global challenges such as sustainability, smart infrastructure, and automation. The event saw an enthusiastic participation of 32 teams from various engineering programs across CUIET, reflecting the diversity of ideas and approaches. Each team demonstrated their technical expertise and creativity by presenting innovative solutions to some of the most critical challenges of today. From tackling environmental issues through sustainable technologies to designing advanced AI/ML-based systems, students exhibited a deep understanding of the subject matter and showcased their potential to revolutionize industries. The symposium was judged by the esteemed Dr. Vijay Kumar Jadon, Dean of Applied Engineering, whose extensive expertise added immense value to the event. As the sole judge, Dr. Jadon provided detailed, constructive feedback and shared valuable insights with the participants. He commended their efforts, encouraged them to push the boundaries of their research, and inspired them to refine their ideas for greater impact. His guidance served as a motivational force for the students, driving them to aim higher and achieve excellence in their work. The event created a stimulating environment that encouraged open dialogue and knowledge sharing among participants, faculty, and experts. It also provided students with a unique opportunity to develop critical skills such as teamwork, technical communication, and problem-solving. Through this symposium, students gained hands-on experience in presenting their ideas, defending their research, and collaborating with peers to address real-world technological challenges.

Outcomes

- Students gained hands-on experience in presenting innovative ideas through poster presentations.
- Students received personalized feedback and expert insights from Dr. Vijay Kumar Jadon, enabling them to refine and strengthen their projects.
- Students developed essential skills in technical communication, critical thinking, and problem-solving.
- Students experienced the competitive yet collaborative environment of a symposium, motivating them to pursue excellence in their fields.



EVENT DETAILS	
EVENT TYPE	EXPERT TALK
TOPIC	HINDENBURG VS ADANI: A CRISIS OF CONFIDENCE IN THE INDIAN MARKETS
DATE	2025-01-28 to 2025-01-28
MODE	ONLINE
ORGANIZER NAME	MBA (FINANCE) DEPARTMENT
RESOURCE PERSON	CA PREETI MEHROTRA, FINANCIAL TRAINER
NO. OF PARTICIPANTS	81
SDG NO	SDG 4: QUALITY EDUCATION, SDG 7: AFFORDABLE AND CLEAN ENERGY, SDG 8: DECENT WORK AND ECONOMIC GROWTH

OBJECTIVE

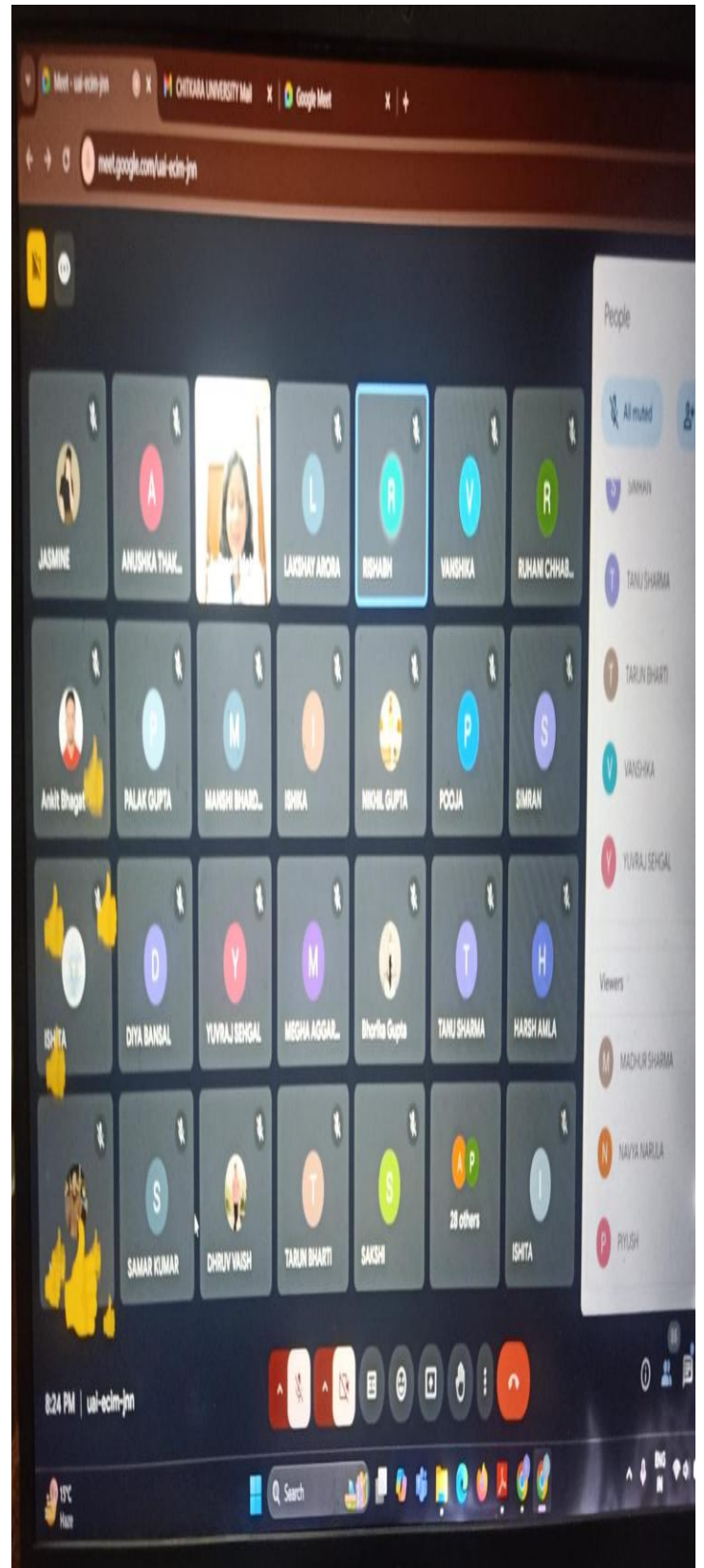
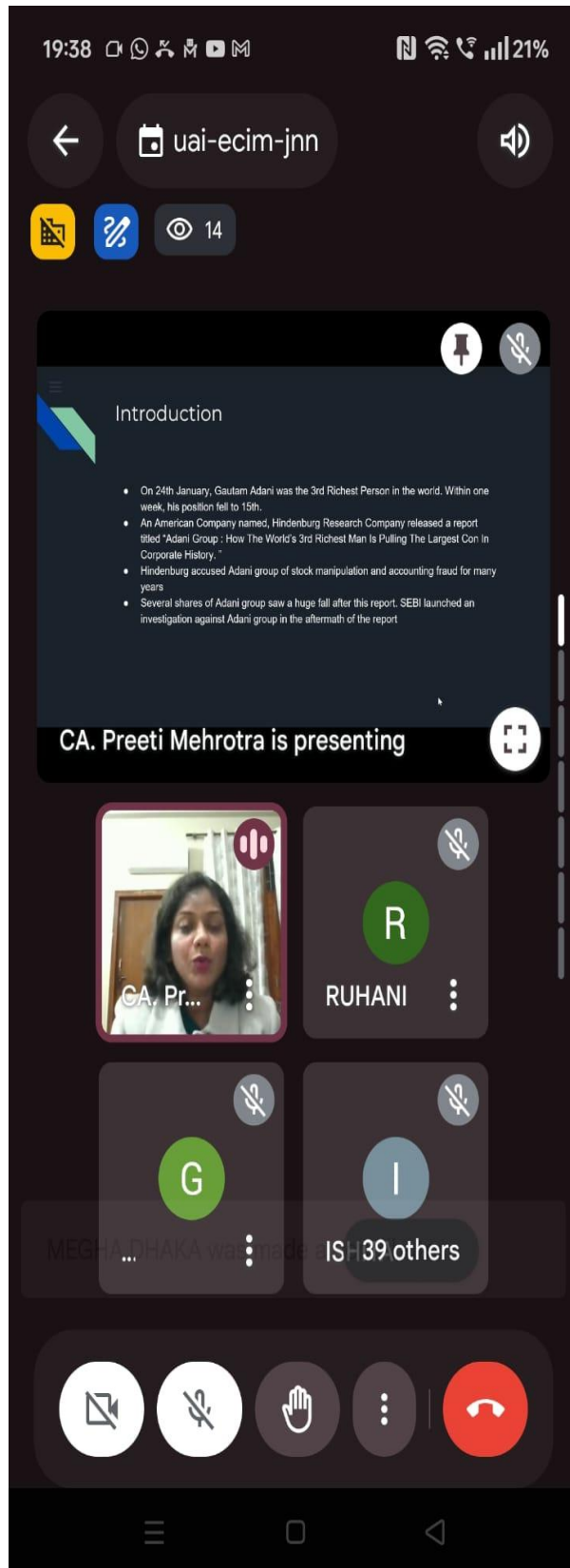
1. To provide insights into the Hindenburg report and its allegations against the Adani Group.
2. To analyze the impact of such reports on investor confidence and Indian capital markets.
3. To enhance critical thinking among students regarding corporate governance and financial reporting.
4. To connect theoretical finance concepts with real-world financial controversies.
5. To expose students to expert industry perspectives and regulatory viewpoints.

DESCRIPTION

The Department of Finance, Chitkara Business School, Chitkara University, Punjab, organized an expert online session on 28th January 2025 for the MBA (Finance) batch of 2024–26. The session was titled “Hindenburg Vs Adani: A Crisis of Confidence in the Indian Markets?”, a topic that delves deep into one of the most debated financial episodes in recent times. The session commenced at 7:30 PM. The resource person for the session was CA Preeti Mehrotra, an esteemed financial trainer with experience in training professionals from ICAI, ICSI, RBI, and Bank of Baroda. With her deep understanding of corporate governance, capital markets, and financial integrity, she brought immense value to the session by unpacking the dynamics behind the Hindenburg report on the Adani Group and its wider impact on market sentiments and investor confidence in India. The session attracted enthusiastic participation from MBA finance students and faculty alike. It encouraged critical thinking and real-time analysis of financial controversies, helping students correlate textbook knowledge with current market events. The interactive Q&A further enriched the session, offering practical insights and answering queries about regulatory practices, media narratives, and the role of institutional investors in such crises. This initiative reinforced Chitkara Business School’s commitment to offering industry-relevant learning and ensuring that future finance professionals are well-equipped to navigate complex and volatile market scenarios.

OUTCOMES

1. Students gained a detailed understanding of the Hindenburg-Adani issue and its implications.
2. Participants developed an analytical approach to assessing financial news and reports.
3. The session bridged the gap between academic learning and real-time market developments.
4. Students learned the importance of transparency, accountability, and due diligence in financial markets.
5. The interaction with an experienced financial trainer encouraged student engagement and curiosity in financial ethics and regulation.



EVENT DETAILS	
EVENT TYPE	SEMINAR
TOPIC	PRACTICAL APPROACHES TO ELECTROMAGNETICS AND ANTENNA DESIGNING
DATE	2025-02-03 to 2025-02-03
MODE	OFFLINE
VENUE	B009 (B009, EDISON BLOCK, CHITKARA UNIVERSITY)
ORGANIZER NAME	PARMINDER KAUR, INCHARGE IE(I) STUDENT CHAPTER, DECE, CUIET, CHITKARA UNIVERSITY, PUNJAB
RESOURCE PERSON	DR. MANISH SHARMA, DIRECTOR RESEARCH, ASSISTANT DIRECTOR & VICE PRESIDENT – IIC, CHITKARA UNIVERSITY, PUNJAB
NO. OF PARTICIPANTS	50
SDG NO	7,9

Objective

- To familiarize students with electromagnetics, wave propagation, and their relevance in antenna design.
- To provide a platform for hands-on techniques for designing, analyzing, and optimizing microstrip antennas.
- To help participants develop their skills with simulation & software Tools by exploring software like HFSS for antenna modeling and performance evaluation.
- To make students aware of the applications and role of antennas in IoT, 5G, satellite communication, and radar systems, etc.

Description

The Department of Electronics & Communication has organized a Seminar on "Practical Approaches to Electromagnetics and Antenna Designing." The seminar aimed to equip participants with a comprehensive understanding of electromagnetics and hands-on techniques for antenna design. It has served as a bridge between theoretical concepts and their real-world applications by emphasizing practical methodologies, advanced simulation tools, and contemporary design challenges. The seminar commenced with a foundational overview of electromagnetic theory, covering essential topics such as Maxwell's equations, wave propagation, radiation mechanisms, and their impact on antenna performance. A significant focus was placed on microstrip patch antenna design, discussing its structure, working

principles, and widespread applications in modern wireless communication systems, including IoT networks. One of the core aspects of this seminar was simulation-based learning, where attendees were introduced to cutting-edge tools like HFSS (High-Frequency Structure Simulator) for designing and analyzing antennas. Participants learnt about the optimization of key parameters such as gain, directivity, bandwidth, and efficiency to ensure that antennas meet specific performance requirements. This hands-on approach enables students to develop a practical understanding of antenna modeling techniques. Beyond simulation, the seminar delved into fabrication and testing methodologies, covering essential aspects like material selection, prototyping techniques, and performance evaluation. Participants also gained insights into modern testing instruments, such as Vector Network Analyzers (VNAs) and anechoic chambers, which are essential for assessing antenna performance in real-world conditions. Furthermore, the seminar will highlight emerging trends and innovations in antenna engineering, including metamaterials, reconfigurable antennas, and AI-driven design optimization techniques. These advancements play a crucial role in the development of next-generation communication systems. This seminar is ideal for students, researchers, and professionals seeking practical exposure to electromagnetics and antenna technology. By the end of the session, participants gained the knowledge required to design, simulate, fabricate, and test antennas for various cutting-edge applications. The hands-on experience prepared them to contribute effectively to advancements in wireless communication and antenna engineering.

Outcomes

- Developed an understanding of electromagnetics with a strong grasp of electromagnetic theory, including Maxwell's equations, wave propagation, and radiation principles among students.
- Familiarization with Microstrip Patch Antenna design, their structure, working principles, and key applications in modern technologies such as IoT, 5G, and satellite communication.
- Practical understanding of designing and optimizing microstrip antennas for specific applications with antenna simulation tools.
- Enhanced the knowledge of students about the material selection, fabrication, and prototyping processes involved in antenna manufacturing.



EVENT DETAILS

EVENT TYPE	EXPERT TALK
TOPIC	EXPERT TALK ON "POWER SYSTEM STABILITY: HARNESSING INNOVATIONS AND TECHNOLOGY FOR A SUSTAINABLE GRID"
DATE	2025-02-05 to 2025-02-05
MODE	OFFLINE
VENUE	CUIET, APPLIED ENGINEERING, CHITKARA UNIVERSITY, PUNJAB CAMPUS TB 202 (CUIET, APPLIED ENGINEERING, CHITKARA UNIVERSITY, PUNJAB CAMPUS)
ORGANIZER NAME	CHITKARA UNIVERSITY
RESOURCE PERSON	DR. ANU SINGLA, ASSISTANT PROFESSOR
NO. OF PARTICIPANTS	34
SDG NO	SDG 4: QUALITY EDUCATION, SDG 7: AFFORDABLE AND CLEAN ENERGY, SDG 9: INDUSTRY, INNOVATION AND INFRASTRUCTURE, SDG 11: SUSTAINABLE CITIES AND COMMUNITIES

OBJECTIVE

The future of power system stability relies on interdisciplinary innovations combining power electronics, AI, energy storage, and secure communication systems. Policymakers, researchers, and utilities must collaborate to deploy resilient and adaptive technologies that ensure a sustainable power grid. The future of power system stability relies on interdisciplinary innovations combining power electronics, AI, energy storage, and secure communication systems. Policymakers, researchers, and utilities must collaborate to deploy resilient and adaptive technologies that ensure a sustainable power grid.

DESCRIPTION

An expert session on "Power System Stability: Harnessing Innovations and Technology for a Sustainable Grid" was held on 5th February 2025 at Chitkara University, organized by the Department of Electrical Engineering. Dr. Anu Singla, the resource person, She is also a Certified Energy Manager & Energy Auditor by Bureau of Energy Efficiency, Ministry of Power, Government of India. Presently she is working in Department of Electrical Engineering at Punjab Engineering College (Deemed to be University), Chandigarh. Dr. Anu Singla shared valuable insights with attendees, focusing on the critical need for innovation in maintaining grid stability amidst the growing integration of renewable energy sources. She highlighted several key areas: Integration of Renewable Energy Sources, Adoption of Smart Grid Technologies, Enhancing Power System Flexibility, Utilization of AI. Dr. Singla's expertise offered attendees a comprehensive understanding of the challenges and opportunities presented by renewable energy integration and the technologies that can help create a more robust and resilient grid. Dr. Arrik Khanna, Assistant Dean, delivered the Vote of thanks, by sharing his experience with the Resource Person. The session was well-organized by Dr. Mamatha Sandhu, Professor, Department of Electrical Engineering, providing a platform for knowledge sharing and discussion on this important topic.

OUTCOMES

Integration of Renewable Energy Sources (RES)
Enhancing Power System Flexibility:
Deployment of Energy Storage Systems (ESS):
Adoption of Smart Grid Technologies:
Utilization of Artificial Intelligence (AI)



EVENT DETAILS	
EVENT TYPE	ENTERPRENEURSHIP
TOPIC	IDEA IMMERSION - IDEATHON
DATE	2025-02-27 to 2025-02-28
MODE	OFFLINE
ORGANIZER NAME	DR AMIT KUMAR, ASSISTANT PROFESSOR DECE, DR GAURAV SHARMA, ASSOCIATE PROFESSOR DECE
RESOURCE PERSON	DR ADARSH AGGARWAL, VICE PRESIDENT, CIIF DR AMIT KUMAR, ASSISTANT PROFESSOR, DECE
NO. OF PARTICIPANTS	36
SDG NO	3,6,7,9,13

Objective

- To encourage students to think creatively and develop innovative solutions to real-world problems in electronics and communication engineering.
- To provide a platform for participants to apply technical knowledge and critical thinking to address contemporary challenges.
- To facilitate teamwork and interdisciplinary collaboration among students to develop well-rounded solutions.
- To help participants refine their idea pitching and presentation skills through the 120-second spotlight challenge.




IDEA IMMERSION-IDEATHON

Resource Person

Dr. Adarsh Aggarwal
Vice-President, CIIF
Chitkara University, Punjab

Faculty Coordinator

Dr. Amit Kumar
Asst. Professor, DECE
CUJET, Chitkara University Punjab

Dr. Gaurav Sharma
Associate Professor, DECE
CUJET, Chitkara University Punjab

Convener

Dr. Shivani Malhotra
Dean, DECE
CUJET, Chitkara University Punjab

Dr. Isha Gupta
Academic Head, DECE
CUJET, Chitkara University Punjab

Dr. Rubina Dutta
Academic Head, DECE
CUJET, Chitkara University Punjab

Schedule
27 Feb: Masterclass on Idea Immersion
28 Feb: The 120 second spotlight

27th - 28th February, 2025
⌚ 10:00 AM – 3:00 PM
📍 B009, Edison Block Basement

Organised By:
Department of Electronics and Communication Engineering
CUJET, Chitkara University Punjab




Scan for Theme and Registration

Win Exciting Cash Prizes Worth INR 3000/-

Registration Fee INR 200/- per student

Description

The Electronique Design Centre of the Department of Electronics and Communication Engineering at Chitkara University, Punjab, successfully hosted "Idea Immersion - Ideathon", a dynamic two-day event on 27-28 February 2025. Designed to spark innovation and cultivate problem-solving skills among students, the ideathon provided a platform for budding engineers to explore cutting-edge ideas in electronics and communication technologies. The first day began with an engaging Masterclass on Idea Immersion by Dr Adarsh Aggarwal, who shared

invaluable insights on transforming abstract concepts into viable solutions. Participants learned essential techniques for brainstorming, refining ideas, and presenting them effectively, with a strong emphasis on creativity, critical thinking, and persuasive communication. The session set the stage for students to develop well-structured proposals, equipping them with the tools needed to excel in the competitive pitching round. Day two elevated the excitement with the 120-second Spotlight, the event's flagship segment. Here, teams delivered concise yet impactful pitches, presenting their innovative solutions to a distinguished panel of judges. The fast-paced format tested participants' ability to communicate complex technical ideas clearly and compellingly within a tight timeframe. The competition highlighted exceptional talent, with students demonstrating not only technical expertise but also ingenuity in addressing real-world challenges. The ideathon culminated in a celebratory awards ceremony, where the top performers were recognized for their outstanding contributions. Piyush Verma (Team Lead, Future Forge) emerged as the winner, impressing the jury with a groundbreaking concept. The first runner-up position was secured by Team Triple A—Arnav Sharma, Abhayraj Singh, and Aditya Sood—while Team M2.5, comprising Kavın Thakur and Hardik Thapar, earned the second runner-up** title. Beyond competition, the event fostered collaboration, critical thinking, and hands-on learning, reinforcing Chitkara University's commitment to nurturing future-ready engineers. By bridging classroom knowledge with real-world problem-solving, the Idea Immersion - Ideathon left participants inspired, equipped with new skills, and motivated to drive technological advancements in their field.

Outcomes

- Participants generated a variety of creative and technically sound ideas, showcasing their potential to drive technological advancements.
- Students gained hands-on experience in idea generation, problem-solving, and effective communication through workshops and pitching sessions.
- Winners and participants received recognition for their efforts, boosting their confidence and motivation to pursue innovative projects.
- The event provided a platform for students to interact with industry experts, faculty, and peers, fostering a culture of knowledge-sharing and collaboration.



EVENT DETAILS

Title:	Symposium on Electric and Autonomous Vehicles (SEAV) 2025
Date:	06-03-2025 and 07-03-2025
Time:	09:00 am to 04:30 pm
Mode:	In-Person
Organized by:	CUIET, Applied Engineering
Venue:	Chitkara University

Objectives

- To disseminate the latest research findings and technological advancements in electric and autonomous vehicle technologies.
- To foster interdisciplinary collaboration and knowledge exchange among researchers, engineers, policymakers, and industry professionals.
- To explore emerging trends and future directions in the development and deployment of electric and autonomous vehicles.
- To critically evaluate the current state of technology and identify key challenges and opportunities for innovation in electric and autonomous vehicles.
- To provide a platform for the presentation and discussion of cutting-edge research papers and case studies.

Report

The Symposium on Electric and Autonomous Vehicles (SEAV-2025) at Chitkara University brought together experts, researchers, and students to discuss the latest advancements in electric and autonomous vehicle technologies. The day was filled with insightful keynote sessions, technical talks, and hands-on demonstrations, fostering knowledge exchange and innovation. The key topics which were finalized and discussed by the experts during the event are summarized below:

S. No.	Title	Resource persons (Day 1 and 2)	Mapped SDGs
Day 1			
1.	Testing of ADAS & Autonomous Vehicles	Shri S. Ramanathan, MD, ATS, New Delhi	3, 9, 11
2.	Smart Charging Platform for Electric Vehicles	Prof. (Dr.) C.C. Reddy, and Dr. Ashwini Sharma, Electric Engineering Department, IIT Ropar	7, 9, 11, 13

3.	The Role of Modelling and Simulation in Electric Vehicle Design	Dr. Dhruv Chandel, Manager, MathWorks, New Delhi	7, 9, 11, 12
4.	Hands-on workshop: 'Introduction to ROS'	Mr. Gurpreet Singh and Dr. Archana Kanwar, Mechatronics Engineering Department, CUIET-AE, Chitkara University Punjab	4, 9
5.	Hands-on workshop : 'Autonomous Drones'	Dr. Gurdyal Singh, Mechatronics Engineering Department, CUIET-AE, Chitkara University Punjab	4, 9
6.	Poster Presentation on electrical vehicles	Coordinated by Dr. Rajneesh Kumar, Mechatronics Engineering Department, CUIET-AE, Chitkara University Punjab	7, 9, 11, 13
Day 2			
1.	Technological Trends in ADAS/Autonomous Vehicles	Mr. Shantanu Sonar, Daimler Truck Innovation Center India.	3, 9, 11, 13
2.	Advancing Autonomous Electric Mobility Through Cutting-Edge Automotive Simulations	Dr. Anudeep Bellary, Altair Engineering India.	7, 9, 11, 13
3.	How ADAS Saves Lives	Mr. Gurkaran Singh Cheema, ICAT, New Delhi.	3, 9, 11, 13
4.	India-Specific Synchronous Dataset Generation for ADAS & Autonomous Vehicles	Mr. Ninad, Automotive Research Association of India (ARAI), Pune, India.	3, 9, 11, 13
5.	Current Legislation and Regulations Relevant to Autonomous Vehicles in the UK/EU	Ms. Jerein Jeyachandran, University of Warwick, UK	3, 9, 11

Inaugural Session was hosted by Dr. Atipriya Sharma and Dr. Abhishek Kumar, Assistant Professors, Mechatronics Engineering Department. The event started with the 'lamp lighting ceremony', it's an auspicious ritual that signifies positivity, purity, and the beginning of a good endeavor. It was followed by Dr. K.C. Vora's, (Professor of Practice, CUIET-Applied Engineering) overview of electric and autonomous vehicles, discussing the latest

developments, challenges, and opportunities in the field.

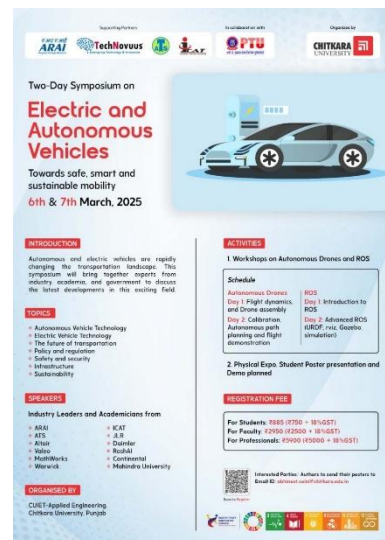
Details about the technical sessions

The symposium was organized in such a way that it consists of technical sessions before lunch, and post lunch hands-on practice sessions on ROS and Autonomous.

I. Technical sessions

The talks on the electrical and autonomous vehicles were delivered by various renowned resource persons, who worked in this field. The key highlights of all the resource persons is briefly provided below:

1. Shri S. Ramanathan (MD, ATS, New Delhi), who spoke about ‘Testing of ADAS & Autonomous Vehicles’ and highlighted the importance of Advanced Driver Assistance Systems (ADAS) in modern vehicles and challenges in ensuring safety and regulatory compliance for autonomous systems. The testing includes evaluating various ADAS functions, such as lane departure warning, forward collision warning, and automatic emergency braking. The live demonstration of an ADAS-equipped vehicle, showcasing real-time safety features and automation capabilities.
2. Dr. C.C. Reddy, Professor and Head, Electric Engineering Department and Dr. Ashwini Sharma from IIT Ropar talked about ‘Smart Charging Platform for Electric Vehicles’ and discussed smart charging infrastructure for electric vehicles, research advancements in battery management, fast-charging solutions and EV integration with smart grids. The use of wireless charging stations are the most convenient way of changing the electrical vehicles in comparison to the conventional wired charging stations.
3. Dr. Dhruv Chandel (Manager, MathWorks, New Delhi) discussed ‘The Role of Modelling and Simulation in Electric Vehicle Design’ and highlighted the importance of simulation-driven vehicle design and role of MATLAB and Simulink in EV development. The necessity for accurate component modeling (battery, motor, controller) to ensure reliable performance predictions of the EVs and the use of simulation to test and refine control systems, enhancing vehicle drivability and responsiveness.
4. Mr. Shantanu Sonar (Daimler Truck Innovation Center India) discussed “Technological Trends in ADAS/Autonomous Vehicles,” shedding light on the evolution of Advanced Driver Assistance Systems (ADAS) and their role in enhancing road safety and vehicle automation. Discussions on technological trends in ADAS/Autonomous Vehicles consistently highlight the convergence of several key areas. Sensor fusion, combining data from cameras, LiDAR, radar, and ultrasonic sensors, is crucial for accurate environmental perception. Advanced AI and



machine learning algorithms are essential for processing this data, enabling decision-making and predictive capabilities. Furthermore, there is a strong focus on the development of robust software, and the need for standardized regulations and ethical considerations, to ensure the safe and reliable deployment of these technologies. Finally, the importance of driver monitoring systems, and the public acceptance of this technology, are also key points of discussion

5. Dr. Anudeep Bellary (Altair Engineering India) delivered a session on “Advancing Autonomous Electric Mobility Through Cutting-Edge Automotive Simulations,” emphasizing the role of simulation in vehicle design and validation. Discussions on advancing autonomous electric mobility through cutting-edge automotive simulations likely centered on several key, often unspoken, points. These include the crucial role of simulation in drastically reducing development time and costs compared to real-world testing, particularly for complex scenarios. Emphasis would be placed on the need for highly accurate and validated simulation models that can replicate real-world conditions, including diverse weather, traffic patterns, and sensor behaviors. The underlying assumption is that robust simulation environments are essential for safely and efficiently training AI algorithms for autonomous driving, and for validating the performance and safety of electric vehicle powertrains and control systems before deployment. Furthermore, there's an implicit understanding that collaboration between industry, academia, and regulatory bodies is vital to establish standardized simulation methodologies and ensure the reliability and acceptance of simulation-driven development.

6. Mr. Gurkaran Singh Cheema (ICAT) presented “How ADAS Saves Lives,” illustrating real-world applications and the impact of ADAS in accident prevention. Discussions on how ADAS (Advanced Driver Assistance Systems) saves lives consistently highlight its proactive nature, addressing human error and enhancing situational awareness. ADAS technologies, utilizing sensors, cameras, and radar, prevent accidents by providing real-time warnings and automated interventions like automatic emergency braking and lane-keeping assist. These systems compensate for driver limitations, such as fatigue or distraction, and improve visibility, especially in challenging conditions like nighttime driving. By minimizing decision latency and providing a comprehensive view of the vehicle's surroundings, ADAS significantly reduces the risk of collisions, ultimately contributing to safer roads.

7. Mr. Ninad (ARAI) led a discussion on “India-Specific Synchronous Dataset Generation for ADAS & Autonomous Vehicles,” addressing the importance of localized datasets for the development of AI-driven mobility solutions. Discussions on India-specific synchronous dataset generation for ADAS and autonomous vehicles emphasize the unique challenges posed by India's diverse and chaotic traffic environment. Key silent points include the necessity for datasets that accurately reflect unstructured traffic patterns, including heterogeneous vehicle types (from bullock carts to modern cars), unpredictable pedestrian behavior, and varying road infrastructure. Furthermore, the importance of capturing data under diverse weather and

lighting conditions prevalent in India, such as heavy monsoon rains and dense fog, is crucial. The need for cost-effective and scalable data collection methods tailored to the Indian context, as well as the ethical considerations surrounding data privacy and safety in a densely populated environment, are also implicitly understood.

8. The morning session concluded with an online lecture by Ms. Jerein Jeyachandran (University of Warwick, UK) on “Current Legislation and Regulations Relevant to Autonomous Vehicles in the UK/EU.” She provided valuable insights into the evolving regulatory framework for autonomous vehicle deployment in Europe, highlighting safety standards, testing protocols, and compliance challenges. The discussion on current legislation and regulations for autonomous vehicles in the UK/EU highlights a complex and evolving landscape. Key points include the UK's Automated Vehicles Act 2024, which establishes a framework for safe AV deployment, defining concepts like "authorized self-driving entities" and "user-in-charge," and emphasizing rigorous safety testing. In the EU, regulations are spread across various acts, including the General Safety Regulation and the AI Act, focusing on safety standards, AI risk assessment, and data governance. There is also a divergence in approaches between the UK and the EU, with the UK taking a more context specific approach, and the EU taking a more risk based approach. Both regions are working to address liability, safety, and data handling, with a focus on creating clear frameworks for the responsible introduction of autonomous vehicle technology.

II. Hands-on sessions

Different hands-on sessions were conducted on ‘Introduction of ROS’, ‘Advanced ROS’, and ‘Autonomous Drones’ and lunch in the SEAV 2025. The salient features of all these hands-on sessions is discussed below:

1. Salient features of the hands-on workshop on ‘Introduction of ROS’

- Understanding ROS Archit
- Practical ROS Development
- Modular Robotics Development
- Community and Ecosystem Awareness.

2. Salient features of the hands-on workshop on ‘Advanced ROS (URDF, Rviz, Gazebo, Simulation)’

- Advanced ROS Concepts
- Real-World Robotics Scenarios
- ROS Tools and Debugging.
- Machine Learning Integration

3. Salient features of the hands-on workshop on ‘Autonomous Drones’

- Navigation & Path Planning
- Sensor-Driven Autonomy

- Data Acquisition & Processing
- Operational Autonomy

III. Poster presentation

4. The student poster presentation session at the Symposium on Electrical and Autonomous Vehicles showcased a diverse range of research and design projects, reflecting the students' awareness in the field. Participants presented their work through visually compelling posters, covering topics such as advanced battery management systems, innovative electric motor designs, sensor fusion for autonomous navigation, and intelligent traffic management algorithms. Each poster detailed the project's objectives, methodologies, results, and potential impact, providing a clear overview of the students' contributions. A panel of industry and academic experts meticulously evaluated the posters, assessing the students' technical understanding, research rigor, and presentation skills. The evaluation focused on the clarity of the presented information, the innovativeness of the proposed solutions, and the students' ability to articulate their work during the Q&A sessions, ultimately recognizing the most impactful and insightful projects.
5. The validating ceremony of the SEAV 2025 was organized during the second day of the event. The ceremony was hosted by Dr. Abhineet Saini, Associate Dean, Mechatronics Engineering Department, CUIET-AE, Chitkara University and he expressed the 'vote of thanks' to the esteemed experts. At the same time, the students were also awarded with the trophies who had secured the positions in the poster presentation competition. However, the participants were facilitated with the participation certificates.

Outcomes

- The symposium provides a platform for academics to network and establish collaborations with researchers from other institutions and industry.
- Exposure to cutting-edge research and emerging technologies can inspire academics to pursue new research avenues within electric and autonomous vehicle domains.
- Opportunities to present posters, sharing findings with a wider academic audience.
- Gaining insights into the latest technological advancements, research trends, and industry developments in the field of electrical and autonomous vehicles.
- Building connections with leading researchers, industry professionals, and potential collaborators.

Event Name	International Conference on Advanced Materials for Sustainable Future (ICAMSF-2025)
Date	28 th - 29 th March 2025
Venue	Pulitzer Hall, Picasso Block (28 th March 2025) & Pierre Hall, Le Corbusier Block (29 th March 2025)
Department	Centre for Research Impact and Outcome
Resource Person	Annexure 1
Number of Participants	373
SDGs Covered	SDG 3, SDG 4, SDG 7, SDG 9, SDG 12, SDG 13 & SDG 14
Duration	2 Days

About the Conference

The International Conference on Advanced Materials for Sustainable Future (ICAMSF- 2025), themed "Energy, Efficiency, Economy for Sustainability," promises to be a landmark event for researchers, industry leaders, and policymakers dedicated to advancing sustainable materials. Hosted by the Centre for Research Impact and Outcome at Chitkara University from March 28th to 29th, 2025, this conference will focus on the crucial role of advanced materials in shaping a more sustainable world. Attendees will engage in discussions on the current practices and challenges associated with sustainable materials for extreme environments while exploring advanced methodologies that improve efficiency and enhance the longevity of materials and machining components. ICAMSF-2025 will provide a platform to showcase cutting-edge innovations in materials science, processes, and manufacturing, with a strong emphasis on sustainability. Additionally, manufacturers will have the opportunity to present their latest products and services, highlighting industry advancements.



The conference will also delve into the profound influence of sustainability in material science, examining its impact on daily life and the economic growth of nations.

Conference Objectives

- The participants will have the opportunity to explore groundbreaking technologies, novel tools, and proactive strategies to elevate their sustainability initiatives.
- The numerous societies and research labs focusing on sustainable development are

encouraged to actively participate in the event.

- Explores advanced practices as a tool for improved efficiency and enhanced life of the materials and machining components.
- Explores the impact of materials in our daily lives and the economic growth of the county.

Key Highlights: Tracks

Theme: Energy, Efficiency,
Economy for Sustainability

Track 1: Material Synthesis for Environmental Remediation, Energy Storage and Conversion

Track 2: Materials for Extreme Functionalities

Track 3: Advanced Manufacturing in Industry 4.0/5.0

Track 4 – Engineering Tribology

Academic Partners

International Institutions	National Institutions
Bournemouth University, United Kingdom	Visvesvaraya National Institute of Technology Nagpur, Maharashtra
Yonsei University, Seoul, South Korea	National Institute of Technology Nagaland
Luleå University of Technology, Sweden	Defence Institute of Advanced Technology Pune
University of Ljubljana, Slovenia	Punjab Engineering College Chandigarh
University of Naples, Italy	Shri Mata Vaishno Devi University, J&K
Asian Institute of Technology Thailand	

Grants/Sponsorship

S. No.	Funding Organization	Amount (INR)
1	Anusadhan National Research Foundation (ANRF)	350000
2	Defence Research and Development Organisation (DRDO)	100000
3	Council of Scientific and Industrial Research (CSIR)	50000
4	SKUEM Water Projects Pvt. Ltd	50000

Publication Partners

Publication Partners								
Proceedings of IMechE Part J	International Journal of Applied Ceramic Technology	Materials Science and Engineering Technology	Proceedings of IMechE Part E	Industrial Lubrications and Tribology	Nanotechnology, BJnano	Water Emerging Contaminant and Nanoplastic	Environmental Science and Pollution Research, Springer	Lecture note series, Springer

Participation

S. No	Participation in the event	Nos.
I.	Chief Guest, Guest of Honor & Plenary Speakers	6
II.	Senior Scientist (Keynote Speakers)	15
III.	Young Scientist (Invited Speakers)	6
IV.	Postgraduate Students /Faculty (Presenters)	338
V.	Undergraduate Students (Presenters)	5
VI.	Industry people (Keynote & Invited Speakers)	1
VII.	Another category (Attendee)	4

Conference Outcomes

- Demonstrated how truly interdisciplinary leadership influenced the most important driver in moving toward adopting new technologies, cultures, and processes for sustainable growth.
- Examined key trends in materials for energy and efficiency and disruptors that are happening around the globe.
- Learning and knowledge are exchanged among conference participants through extensive discussions.
- This conference covered various SDGs such as 3, 4, 7, 9 12, 13, and 14.

S. No.	SDGs	Nos.
1	3	30
2	4	343
3	7	96
4	9	200
5	12	150
6	13	82
7	14	10





Annexure 1

Prof. Dineshsingh Thakur	DIAT (DU), DRDO, Girinagar, Pune, Maharashtra
Prof. Harish Hirani	Indian Institute of Technology Delhi
Dr. SAJITH V	National Institute of Technology Calicut
Dr Pooja Devi	CSIR-Central Scientific Instruments Organisation, Chandigarh
Prof. Sushil Kumar Kansal	Panjab University, Chandigarh
Prof. M Ravisankar	Indian Institute of Technology Tirupati
Prof. Vikas Kumar Sangal	Malaviya National Institute of Technology Jaipur
Dr. TVK Gupta	Visvesvaraya National Institute of Technology Nagpur
Dr. Harish Kumar	National Institute of Technology Delhi
Prof TVVLN Rao	Assam downtown University, Guwahati
Dr. Arun Singh	Visvesvaraya National Institute of Technology Nagpur
Dr. Ranjeet Kumar Sahu	National Institute of Technology Karnataka (NITK) Surathkal
Dr. Avinash Kumar	Indian Institute of Information Technology Design and Manufacturing Kancheepuram, Chennai
Dr. Jimmy Karloopia	Punjab Engineering College (Deemed to be University), Chandigarh
Dr. Jadab Sharma	Punjab University, Chandigarh
Dr Srihari Dodla	Indian Institute of Technology BHU, Varanasi, UP

EVENT DETAILS	
EVENT TYPE	ENVIRONMENT OR GREEN INITIATIVE
TOPIC	NATIONWIDE ROADSHOW AND DEMONSTRATION OF E-TRACTOR AND E-TILLER
DATE	2025-04-09 to 2025-04-09
MODE	OFFLINE
ORGANIZER NAME	CSIR-CMERI-COFEM LUDHIANA IN ASSOCIATION WITH CSIR-CMERI DURGAPUR
NO. OF PARTICIPANTS	2
SDG NO	SDG 7: AFFORDABLE AND CLEAN ENERGY, SDG 9: INDUSTRY, INNOVATION AND INFRASTRUCTURE, SDG 12: RESPONSIBLE CONSUMPTION AND PRODUCTION, SDG 13: CLIMATE ACTION

OBJECTIVE

1. To witness the demonstration of E-Tractor and E-Tiller technologies developed indigenously.
2. To understand the technical architecture and performance of electric farming machinery.
3. To explore the applicability of EV technologies in agriculture and off-road sectors.
4. To identify future academic and research opportunities in electric mobility for agriculture.
5. To enhance course delivery of "Off-Road Vehicles" through real-world exposure

DESCRIPTION

On April 9, 2025, Dr. Rajesh Kumar, Professor, and Dr. Talvinder Singh, Assistant Professor from the Department of Mechanical Engineering (CUIET-AE), attended a nationwide roadshow and demonstration of the E-Tractor and E-Tiller organized by CSIR-CMERI-CoFEM, Ludhiana. These innovative farming solutions, developed by CSIR-CMERI, Durgapur, are powered by over 90% indigenous technology, aligning with India's goal of Atmanirbhar Bharat in the electric mobility sector. The event served as a platform for knowledge sharing between scientists, farmers, industry representatives, and academicians. Live demonstrations and field trials were conducted, allowing participants to engage closely with the technology and assess its performance. The lead scientists and organizer, played a pivotal role in explaining the design, functionality, and future potential of these machines. From an academic standpoint, the event was particularly relevant for faculty involved in curriculum design and delivery of automobile engineering courses. The insights gained will directly contribute to enhancing the “Off-Road Vehicles” course scheduled for the next semester. The event also fostered greater awareness about how electric vehicles can be effectively implemented beyond conventional road transportation—especially in agriculture. The participation highlighted the university's commitment to sustainable development, innovation, and collaboration with premier research organizations.

OUTCOMES

1. Gained practical insights into electric tractor and tiller technologies.
2. Understood integration of Indian technologies in agricultural machinery.
3. Strengthened academic-industry connect through CSIR initiatives.
4. Identified key elements to incorporate in the Off-Road Vehicles curriculum.
5. Expanded awareness of sustainability goals related to electric mobility in farming



EVENT DETAILS	
EVENT TYPE	PRE-PLACEMENT TALKS
TOPIC	DECODING SCHNEIDER ELECTRIC: YOUR GUIDE TO PRE-PLACEMENT SUCCESS
DATE	2025-04-14 to 2025-04-14
MODE	OFFLINE
ORGANIZER NAME	DR PREETI SHARMA, ASSOCIATE PROFESSOR(DECE)
RESOURCE PERSON	MS VAISHALI SHUKLA, SENIOR MANAGER(HR)
NO. OF PARTICIPANTS	30
SDG NO	SDG 3: GOOD HEALTH AND WELL-BEING, SDG 7: AFFORDABLE AND CLEAN ENERGY, SDG 9: INDUSTRY, INNOVATION AND INFRASTRUCTURE

OBJECTIVE

Students will be able to

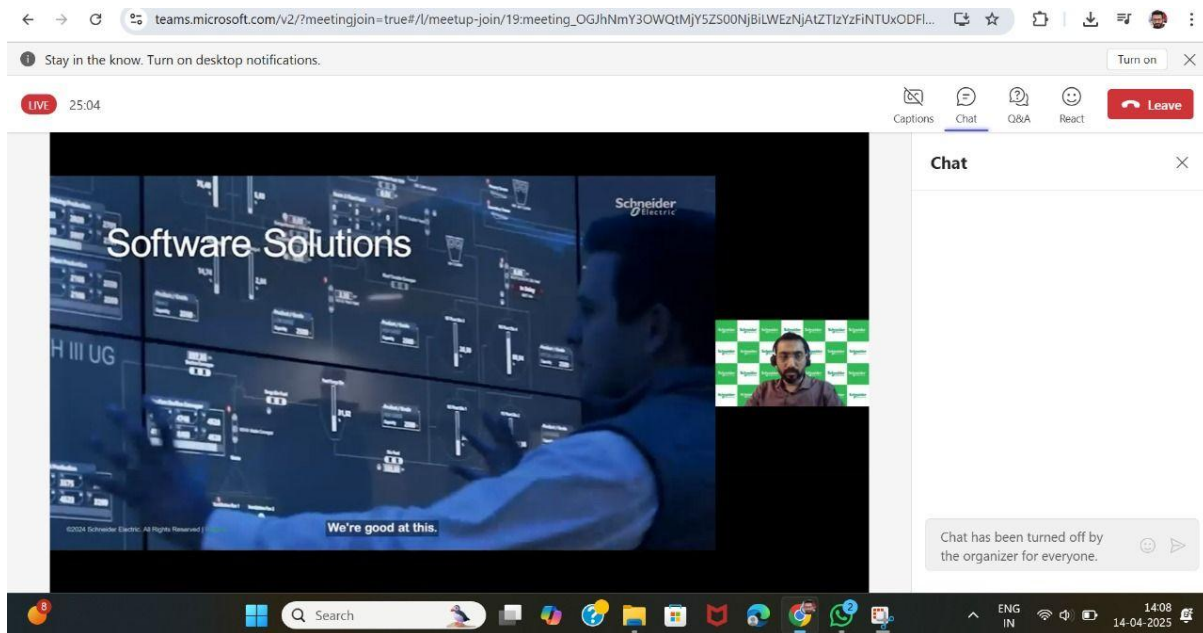
- Gain Comprehensive Company and Industry Insight into specific technologies and innovations of Schneider Electric
- To explore potential career paths within the company, from entry-level positions to specialized and leadership roles, helping them envision their professional growth.
- To understand the core technical subjects, programming languages, and problem-solving skills they should focus on to improve their chances of success into the selection process.

DESCRIPTION

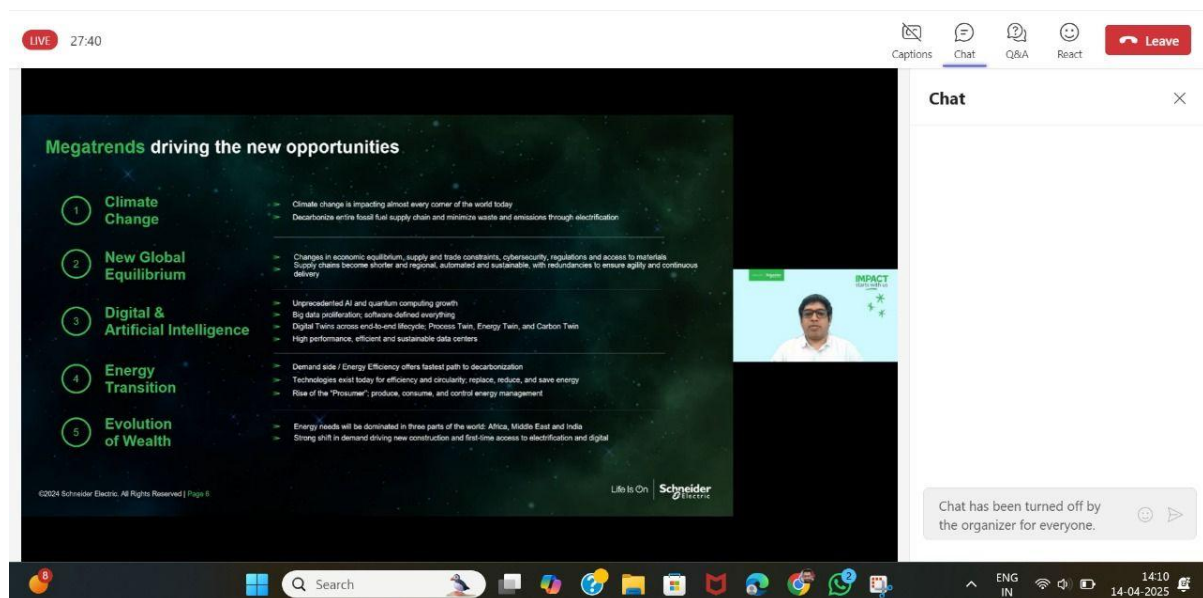
The DECE organized a session by Ms Vaishali Shukla, Senior Manager (HR), Schneider Electric for ECE students on 18 April 2025. She offered valuable insights into the company's vision, culture, and career opportunities within the dynamic fields of energy management and industrial automation. Ms Vaishali began by introducing Schneider Electric as a global specialist committed to sustainability and efficiency, emphasizing its role in digital transformation. For ECE students, the talk highlighted the company's focus on cutting-edge technologies like AI, ML, IoT, and cybersecurity, and how these are integrated into their products and solutions. The key aspects of the talk typically included the technological innovations related to developing smart grids, automation systems, digital buildings, and other IoT-enabled solutions. During this session, Ms Shukla specifically highlighted the immense opportunities for ECE graduates in areas such as embedded systems design, power electronics, industrial control systems, IoT integration, and firmware development, all integral to Schneider Electric's innovative solutions. The HR lead also elaborated the culture of inclusion, mastery, purpose, action, curiosity, and teamwork in the company. The session concluded with the discussion of various roles available in Schneider Electric, such as R&D engineers, software developers (especially for embedded systems), test engineers, automation specialists, and roles in digital transformation. Practical insights into the unique assessment tests (including gamified elements), interview strategies, and resume-building tips were also provided. This comprehensive session aimed to equip students with the knowledge and confidence to excel in their pre-placement journey and secure a rewarding career at a company at the forefront of the energy transition.

OUTCOMES

- Students gained a crystal-clear Understanding of Schneider Electric's ECE-Relevant Domains (e.g., Power Systems, Industrial Automation, Secure Power) & Roles (e.g., R&D, Hardware Design, Embedded Firmware, Control Systems, IoT Development)
- Students understood the unique aspects of their assessment tests (e.g., gamified assessments), knowing what technical concepts to revise for interviews, and gained tips on showcasing their skills effectively
- Identification of Skill & Knowledge Gaps for Targeted Preparation by students
- Informed Career Decision-Making & Enhanced Motivation in students



The software solutions at Schneider being discussed with the students(14.04.2025)



HR representative introducing work domains at Schneider (14.04.2025)

EVENT DETAILS	
EVENT TYPE	EXPERT TALK
TOPIC	COMTECH 3.0 - ESG CONCLAVE : PIONEERING BUSINESS FOR A GREENER FUTURE
DATE	2025-04-15 to 2025-04-15
MODE	OFFLINE
ORGANIZER NAME	DR. RASHMI AGGARWAL, DR. NEHA & DR. SONIA ANTIL
RESOURCE PERSON	ANU CHAUDHARY, PARTNER & GLOBAL HEAD NIRAV PATEL , PARTNER JAYASHREE SATHY, MANAGING DIRECTOR MAITHREYI SWAMINATHAN, MANAGING DIRECTOR
NO. OF PARTICIPANTS	114
SDG NO	SDG 7: AFFORDABLE AND CLEAN ENERGY, SDG 12: RESPONSIBLE CONSUMPTION AND PRODUCTION, SDG 13: CLIMATE ACTION, SDG 17: PARTNERSHIP FOR THE GOALS

OBJECTIVE

1. Understand how emerging technologies support ESG measurement, monitoring, and compliance.
2. Analyze how technology improves ESG data accuracy, transparency, and decision-making.
3. Analyze the growth of sustainable financial products like green bonds and ESG ETFs.
4. Examine the role of regulatory frameworks in mainstreaming ESG in capital markets.

5. Examine compliance requirements and risk mitigation strategies tied to ESG in financial institutions
6. Identify major ESG and sustainability reporting frameworks (e.g., GRI, BRSR, TCFD).

DESCRIPTION

What unfolded was more than a conversation. It was a shared moment of clarity—a reminder that the way we treat the planet, engage with society, and uphold ethical governance isn't just a corporate checklist or academic topic. It's the foundation of the future we are building together. ESG (Environmental, Social, and Governance) is crucial for businesses today as it drives sustainable growth and risk management. Investors and stakeholders increasingly prioritize ESG performance when making decisions. Strong ESG practices enhance brand reputation, regulatory compliance, and long-term profitability. The presence and powerful voices of our speakers—Anu Chaudhary, Nirav Patel, Shreya Pillai, Maithreyi Swaminathan, and Jayashree Sathy—elevated the conversation in ways that deeply resonated with every attendee. Their unique experiences, bold perspectives, and grounded wisdom painted a vivid picture of what it means to truly live the principles of ESG in our daily lives. They explored the urgency of climate action, the deep need for inclusive and equitable policies, and the power of ethical leadership in shaping institutions that prioritize people and the planet. These were not just academic discussions or professional presentations—they were personal stories, real-world applications, and passionate calls to rethink how we live, lead, and learn. Each speaker touched on an essential truth: that ESG is not just for corporations, policymakers, or environmentalists. It is for every one of us. Whether we are students, educators, professionals, or community members, we all play a part. Environmental stewardship is not optional—it is essential. The choices we make today, from how we consume resources to how we advocate for sustainable practices, will define the quality of life for generations to come. The climate crisis isn't waiting, and neither should we. Social responsibility means ensuring that all voices are heard, that justice is pursued, and that communities are built with empathy and inclusion at the centre. It means challenging systems of inequality, advocating for mental health, education, diversity, and community well-being. Governance isn't only about rules and regulations—it's about integrity. It's about how we lead, how we make decisions, and how we ensure that power is exercised with fairness, transparency, and accountability. We left this event not just informed, but transformed. The energy in the room was electric—a mix of curiosity, conviction, and an overwhelming desire to do better. Whether it was a thought-provoking quote from a panellist or a meaningful discussion during the Q&A, everyone walked away carrying something that changed them, even if just a little.

OUTCOMES

1. Heightened Awareness of ESG Values

- Attendees left with a deeper understanding of the Environmental, Social, and Governance framework and its relevance across sectors.
- Many experienced a shift in mindset—viewing ESG not as a corporate checkbox, but as a personal and societal responsibility.

2. Seeded Future Initiatives and Projects

- The event acted as a launchpad for future student-led ESG activities—clubs, research, awareness drives, curriculum proposals, and sustainability campaigns.
- Inspired students may now work toward integrating ESG into student government, academic research, or community engagement projects.

3. Clear Direction for Institutional Support

- The conversation highlighted the need for universities and educational institutions to embed ESG values in formal learning.
- Faculty and administration may be more inclined to support ESG-related activities, curriculum integration, and policy development.

4. Industry Collaboration on ESG Goals

- The conclave facilitated networking among industry leaders, policymakers, and academia.
- It fostered collaborations aimed at driving long-term sustainable development.



Fire Side Chat (15.4.25)



Group Discussion (15.4.25)

EVENT DETAILS	
EVENT TYPE	SEMINAR
TOPIC	NATIONAL SYMPOSIUM ON "THE CIRCULAR ECONOMY REVOLUTION: REDEFINING GLOBAL SUPPLY CHAIN THROUGH ESG"
DATE	2025-04-18 to 2025-04-19
MODE	HYBRID
ORGANIZER NAME	DEPARTMENT OF SCM & GENERAL MANAGEMENT
RESOURCE PERSON	SANJIV GARG, SECRETARY GENERAL DR. SURINDRA AHIRWAL, EXECUTIVE DIRECTOR, TRAFFIC COMMERCIAL BHUPINDER KUMAR, HEAD, IOL CHEMICALS PHARMACUETICALS LTD DMITRY BLINOV, MD KRISHNA SINGH, CLUSTER HEAD - INTEGRATED LOGISTICS/4PL DR. ASHISH NEGI, VP, SERVICE LOGISTICS SAMRAT SEHGAL, GLOBAL SUPPLY CHAIN HEAD ROHIT PARVATIKAR, SR. DIRECTOR – SCM, CAPGEMINI MANOJ SHARMA, HEAD SCM, HMC MM AUTO LIMITED, AMIT JAVAR, VP, SALES & MARKETING PANKAJ SANGHI, HEAD, COASTAL SERVICE
NO. OF PARTICIPANTS	200
SDG NO	SDG 4: QUALITY EDUCATION, SDG 7: AFFORDABLE AND CLEAN ENERGY, SDG 9: INDUSTRY, INNOVATION AND INFRASTRUCTURE, SDG 17: PARTNERSHIP FOR THE GOALS

OBJECTIVE

1. Facilitate Knowledge Exchange: To bring together industry leaders, academicians, and professionals to share insights, experiences, and best practices in logistics and supply chain management.
2. Promote Sustainable Practices: To explore and advocate for the integration of circular economy principles in supply chain operations to enhance environmental sustainability and resource efficiency.
3. Advance ESG Goals: To examine how innovative supply chain strategies can contribute to achieving Environmental, Social, and Governance (ESG) objectives in various sectors.
4. Encourage Academic Contributions: To provide a platform for scholars and researchers to present their findings and contribute to the academic discourse on emerging trends and challenges in the field.
5. Foster Industry-Academia Collaboration: To strengthen collaboration between academic institutions and industry stakeholders for developing future-ready, resilient, and responsible supply chain systems.

DESCRIPTION

The 4th National Symposium on “The Circular Economy Revolution: Redefining Global Supply Chain through ESG” united industry leaders, academicians, and students to discuss the future of sustainable supply chain practices. The event featured two compelling panel discussions, a Presentation Contest for PG students and research scholars, and a Poster Exhibition. Mr. Dmitriy Blinov, CEO, LogNRG India, the Chief Guest, in his keynote address, focused on the comparative ESG landscape of Russia and India. Mr. Sanjiv Garg, Secretary General, CILT India, moderated the Panel discussion among panellists- Mr. Subhendu Panja, VP-Corporate Business SCM, CJ Darcl, Mr. Krishna Singh, Cluster Head - Integrated Logistics/ 4PL, Kuehne+Nagel, and Amit Jawar, VP-Sales & Marketing, Patanjali Foods Ltd. They covered critical themes such as 4PL infrastructure, sustainable transport, and stakeholder engagement strategies. Dr. Neeraj Anand, Dean - SCM and General Management, and Head – Centre of Excellence for Sustainable Supply Chain (CoESSC), set the context on ESG frameworks. The symposium concluded with a vote of thanks by Col. Bikram Ahluwalia, marking a successful knowledge-sharing platform. Day 2 of the 4th National Symposium commenced under the able guidance of Dr. Neeraj Anand, with opening remarks. An impactful summary of Day 1 was shared by Dr. Monika Gupta, Convener, and Professor and Program Head – Aviation, setting the tone for deeper discussions on ESG and circular supply chains. Mr. Ravi Inder Singh, Head of Purchasing – Southeast Asia, SKF

Group, Malaysia delivered Keynote Address on **“Circular Economy in Manufacturing & SKF’s Sustainable Practices,”* mentioning how SKF, a global leader in bearing manufacturing, is driving sustainability through a shift from a linear to a circular economy, Mr. Manoj Sharma, Head of SCM at SNC-MM Auto Ltd. moderated the Panel Discussion, among the panelists Mr. Pankaj Singhi, Head Coastal Service, Avana Logistek Limited (Unifeeder Group, DP World), Samrat Sehgal, Global Supply Chain Head, Dabur, Ghaziabad, Rajat Pathak, Regional Head - North India, Parekh Group. He stressed the importance of bridging academic theory with practical technology adoption.. The Chief Guest, Mr. Dmitriy Blinov, CEO of LogNRG (Russia), delivered a powerful address on leveraging AI, IoT, and blockchain in warehouse automation and energy-efficient logistics. He emphasised the role of collaboration among manufacturers, suppliers, and customers to achieve net-positive outcomes without heavy investments. The day concluded with a Valedictory Session, followed by a warm Vote of Thanks delivered by Col. Atul Pandey, acknowledging the efforts of all dignitaries, panellists, and participants. Day 2 reinforced the message that embracing circular economy principles, integrating ESG goals, and leveraging cutting-edge technology are essential for building resilient and future-proof supply chains.

OUTCOMES

1. Enhanced Understanding of Global SCM Dynamics: Participants will develop a deeper knowledge of the complexities and challenges in global supply chain and logistics management.
2. Adoption of Technological Advancements: Attendees will gain insights into emerging technologies and best practices that can be applied to build more efficient and agile supply chains.
3. Readiness for Future Supply Chain Trends: Participants will be equipped to address future-oriented themes such as sustainability, digitization, and customer-centric supply chain models.
4. Improved Strategic Decision-Making Skills: Through expert discussions and case studies, participants will enhance their ability to make informed, strategic decisions in supply chain operations.
5. Contribution to Responsible Supply Chain Practices: The symposium will inspire participants to implement ESG-driven, ethical, and sustainable practices in their organizations or research.



Glimpse of audience in National Symposium (18.04.2025)



Dr. Neeraj Anand with Mr. Dmitriy Blinov (Chief Guest) and Dr. Dhiresh
(18.04.2025)

EVENT DETAILS

EVENT TYPE	FIELD VISIT
TOPIC	FIELD VISIT TO 11 KV SUBSTATION
DATE	2025-04-23 to 2025-04-23
MODE	OFFLINE
ORGANIZER NAME	DR SWAPANDEEP KAUR, DECE, CUIET, CHITKARA UNIVERSITY, PUNJAB
RESOURCE PERSON	MR KULBIR SINGH, SUPERINTENDING ENGINEER, ELECTRICAL MAINTENANCE DEPARTMENT, CHITKARA UNIVERSITY, PUNJAB
NO. OF PARTICIPANTS	82
SDG NO	SDG 4: QUALITY EDUCATION, SDG 7: AFFORDABLE AND CLEAN ENERGY, SDG 9: INDUSTRY, INNOVATION AND INFRASTRUCTURE

OBJECTIVE

Students will be able

- To understand the working and layout of a high-tension 11 KV substation, including the role of Vacuum Circuit Breakers (VCBs).
- To observe real-time power monitoring and control operations, particularly how electricity consumption is tracked in the control room.
- To study the function and importance of step-down transformers in reducing high voltage to usable levels (11KV to 440V) for campus-wide power distribution.
- To learn about the backup power infrastructure, including the operation and load

management of diesel generators.

- To gain awareness of on-site electrical safety measures and equipment.

DESCRIPTION

The Department of Electronics and Communication Engineering in collaboration with the Electrical Maintenance Department organized a field visit to the 11 KV Substation at Chitkara University for ECE batch 2024 students. The visit began with a tour of the 11KV High Tension Vacuum Circuit Breaker (HT VCB) room. This room housed four VCBs, all connected to the government supply line and operating at 11KV. One of the breakers functioned as a master switch, controlling the others collectively. Each breaker was equipped with an alarm system to signal emergencies such as oil overheating, with a service team available on-site 24/7. Although the substation did not have a storage system, surplus electricity during holidays was occasionally supplied back to the grid, with all transactions carefully monitored. The students then visited the control room, where screens displayed the electricity consumption of each department and the performance of the solar panel systems. It was observed that around 70% of the university's electricity needs were fulfilled by the substations, with the remaining 30% met by solar panels. The students were also shown three oil-cooled, step-down transformers that reduced voltage from 11KV to 440V. These transformers distributed power to different buildings on campus, and each line was centrally controlled through labelled systems. Additionally, the team observed five diesel generators that provided power during outages. To manage the load, approximately 80% of air conditioners were turned off during generator use. Safety equipment, including CO₂ fire extinguishers and sand buckets, was also demonstrated. Overall, the visit offered a valuable practical perspective on the systems studied in class. All queries were thoroughly addressed by the staff, making the experience highly educational and engaging. The students expressed interest in attending similar visits in the future.

OUTCOMES

- Students observed real-time substation operations and equipment.
- Gained clarity on power distribution and voltage step-down processes.
- Learned about solar integration and energy management strategies.
- Understood the use of safety gear and emergency protocols.
- Visit encouraged enthusiasm for further learning in power systems.



Resource person explaining students (23.04.2025)



Group Photograph (23.04.2025)

Event name	Exposure Visit
Topic	"Real-Time Insights Into Net Zero Carbon Home Innovations"
Date	24/04/2025
Mode	Offline
Venue	Net Zero Carbon Project, AP 421, Emaar Mohali Hills, Sector 109 Mohali
Organizer Name	Department of Interior Design
Resource Person	Dr. Balkar Singh & Mr. Jaspreet Singh Brar
No. Participant	35
SDG no.	SDG 4: QUALITY EDUCATION, SDG 7: AFFORDABLE AND CLEAN ENERGY, SDG 9: INDUSTRY, INNOVATION AND INFRASTRUCTURE, SDG 11: SUSTAINABLE CITIES AND COMMUNITIES

Objectives

1. To familiarize students with the key principles of sustainable home design.
2. To provide hands-on exposure to low-carbon materials, passive cooling systems, solar integration, and smart home technologies.
3. To demonstrate how climate-resilient residential designs are implemented in real-world settings.
4. To engage students with professionals for practical insights into net-zero carbon home innovations.

Description

The Department of Interior Design, Chitkara School of Planning and Architecture, organized an awareness-driven exposure visit titled "Real-Time Insights into Net Zero Carbon Home Innovations" for the IVth semester students on April 24, 2025. The visit took place at the Net Zero Carbon Project, AP 421, Emaar Mohali Hills, Sector 109, Mohali—an exemplary model of climate-resilient residential design. Led by Dr. Balkar Singh, Professor of Practice at Chitkara University, and Mr. Jaspreet Singh Brar.

The core objective of this visit was to familiarize students with the key principles of sustainable home design. These included low-carbon materials, passive cooling systems, solar integration, and smart home technologies. The experience aligned directly with the IVth semester curriculum, providing students with a hands-on understanding of sustainable and energy-efficient design strategies in practice. During the visit, students

closely observed how green architecture practices are implemented—from thoughtful site orientation to resource optimization and advanced smart energy systems. The project served as a real-world demonstration of how architectural design can balance environmental responsibility with cost-effectiveness.

This exposure visit offered students a unique opportunity to experience the future of housing design, focusing on climate responsiveness, energy efficiency, and innovation. The session emphasized the growing need for net-zero, affordable housing solutions in the face of global environmental challenges. Through direct engagement with professionals and real-time observation, students gained valuable insights into the role of design in building resilient communities.

Outcomes

1. Students understood practical applications of sustainable and energy-efficient design.
2. They observed real-time use of smart energy and green building systems.
3. Students gained insights into balancing cost-effectiveness with environmental responsibility.
4. Explored the innovative approaches to future-ready residential design.
5. The visit enhanced student awareness of the need for net-zero, affordable housing solutions.

