

**1. International Conference on Sustainable Energy and Environmental Developments**  
The Department organized an international conference on *Sustainable Energy and Environmental Developments* from 13th–14th December 2024, with approximately 110 participants. The conference provided a platform for academicians, researchers, and industry professionals to discuss recent trends, innovations, and challenges in sustainable energy and environmental technologies. **Outcome:** Participants gained exposure to cutting-edge research, fostered collaborative networks, and identified emerging opportunities for innovation and research in sustainable energy and environmental sectors.

International Conference Brochure



  
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## 2. National Level Students' Technical Paper Symposium - Chemspark 2K24 (under Sudhee-2024)

The department hosted the national-level student symposium *Chemspark 2K24* on 4th–5th March 2025. The event featured a range of competitions, including paper and poster presentations, model making, and a technical quiz, all designed to foster creativity, innovation, and technical proficiency among participants. In the paper presentation segment, students presented their research findings and innovative ideas on diverse chemical engineering topics, engaging in insightful discussions with peers and faculty. The poster presentation allowed participants to visually represent their research work, projects, and concepts through well-designed and informative posters. The model-making event challenged students to translate theoretical knowledge into practical applications by constructing physical models that demonstrated key chemical engineering principles. This hands-on experience encouraged critical thinking and problem-solving in a real-world context. The department received approximately 105 registrations.



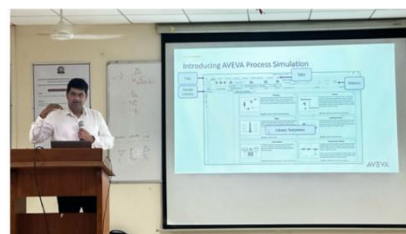
Students enhanced their research and presentation skills, received feedback from experts, and developed a stronger understanding of current technological trends, fostering a culture of technical excellence and innovation among students.

  
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### 3. Five-Day National Workshop on "Digitalization in Process Industries Towards Sustainability"

A five-day national workshop on *Digitalization in Process Industries Towards Sustainability* was conducted on 4th, 7th, 12th, 19th & 26th April 2025, with 111 participants. The workshop included real-world case studies and exercises, providing practical insights into applications across chemical, energy, and oil & gas industries. The sessions were facilitated by experienced professionals from AVEVA: Dr. Pavan Kumar Veldandi, Manager & Consultant; Mrs. P. Sreevani, Vertical Product Owner; Mr. Rajender Mangalarapu, Principal Technical Consultant. These experts offered industry insights, technical demonstrations, and interactive problem-solving opportunities throughout the five-day program. Participants gained hands-on experience in: Simulating steady-state and dynamic processes, Performing rigorous thermodynamic modelling, Optimizing heat and material balance calculations, Understanding digital twin integration and cloud-based capabilities of AVEVA software.



  
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