

Sustainability Engineering and Circular Economy

Emerging trends in Sustainability Engineering and the Circular Economy are reshaping industries to prioritize resource efficiency, waste reduction, and regenerative processes. Innovations in recycling technologies, such as chemical and enzymatic recycling, are enabling the recovery of high-quality materials from waste, especially in textiles and plastics. There is also a shift towards biomimicry, with biodegradable and nature-based materials gaining prominence. Closed-loop supply chains and circular business models like product-as-a-service are driving the adoption of systems that minimize waste by reusing materials and extending product lifespans. Additionally, digital solutions like blockchain and AI are enhancing supply chain transparency and optimizing resource use. Governments and industries are increasingly aligning policies and regulations, such as extended producer responsibility (EPR) and circular economy action plans, to accelerate the adoption of sustainable practices. These trends collectively aim to decouple economic growth from resource consumption, fostering a more resilient and sustainable global economy.

Important Dates

Last date for Registration: 25-12-2024
Value Added Program : 04-01-2025 - 06-04-2025

Who can attend?

B.Tech. Students [Pre-final Year/Final Year] and M.Tech Students -

Contact :

Dr. K. Jayakrishna
Professor Grade I
School of Mechanical Engineering
Vellore Institute of Technology, Vellore
E-mail : jayakrishna.k@vit.ac.in
Phone: +91-9894968596

Register at: www.vit.ac.in/events/

Dr. Rajyalakshmi G,
Professor Grade I
School of Mechanical Engineering
Vellore Institute of Technology, Vellore
E-mail : rajyalakshmi@vit.ac.in
Phone: +91-77082 34836

Chief Patron

Dr. G. Viswanathan, Founder & Chancellor

Patrons

Mr. Sankar Viswanathan, Vice - President

Dr. Sekar Viswanathan, Vice - President

Dr. G.V. Selvam, Vice - President

Dr. Sandhya Pentareddy - Executive Director

Ms. Kadhambari S. Viswanathan -

Assistant Vice - President

Dr. V.S. Kanchana Bhaaskaran, Vice Chancellor

Dr. Partha Sharathi Mallick, Pro-Vice-Chancellor

Dr. Jayabarathi T, Registrar

Convenor(s)

**Dr. K. Devendranath Ramkumar, Dean-SMEC, VIT,
Vellore**

Co-Convenor

**Dr. Arun Tom Mathew, Associate Dean-SMEC, VIT,
Vellore**

**Dr. Pandivelu C, HoD-Manufacturing Engineering,
SMEC, VIT**

Coordinators (India)

Dr. K. Jayakrishna

Dr. Rajyalakshmi G

Coordinators (Industry)

Dr. Mekala C

Mr. Dinesh Kumar

Mr. Arun Shaji



VIT

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Value Added Program

on

**“Emerging trends in Sustainability
Engineering and Circular Economy”**

04-01-2025 - 06-04-2025

Vellore Institute of Technology, Vellore

Organized by

**School of Mechanical Engineering,
Vellore Institute of Technology (VIT)**

in collaboration with

**Honeywell Sustainability Center of
Excellence., Madurai**

Honeywell



VELLORE INSTITUTE OF TECHNOLOGY (VIT)

Vellore Institute of Technology was founded in 1984 as Vellore Engineering College by the Founder and Chancellor Dr. G. Viswanathan. University status was conferred in 2001 by MHRD Govt. of India in recognition of its excellence in academics, research and extracurricular initiatives.

Ranking & Accreditation

Vellore Institute of Technology (VIT) has emerged as one of the best institutes in India and is aspiring to become a global leader. Quality in teaching-learning, research and innovation makes VIT unique.

- Engineering and Technology subject areas of VIT are the 212th best in the World and the 9th best in India, and Ten subjects of VIT are within the top 500 in the world (as per QS World University Rankings by Subject 2024)
- The 8th best University, the 11th best research institution and the 11th best engineering institution in India (NIRF Ranking, Govt. of India 2023)
- Ranked among the top 601-800 universities of the world (THE World University Ranking 2024)
- NAAC Accreditation with A++ grade (3.66 out of 4)
- The 163rd-best Institution in Asia (QS - Asia University Rankings 2024)

School of Mechanical Engineering (SMEC)

The School of Mechanical Engineering is amongst the premier schools of VIT started functioning right from 1984. The school has got a team of highly qualified faculty members, many holding PhDs from the elite institutes across the globe, to teach and train the best minds of this country. The pride of the school lies in the significant research funding received from several Government agencies such as DST, DRDO, MNRE, CSIR, CVRDE, CPDO, IE, AR&DB, CVRDE, BRNS, ISRO, UGC, NRB, AICTE etc., Memoranda of Understanding (MoUs) with various Industry Research Organisations and leading Universities. The Department of Science and Technology, Govt. of India has recognized the school for its research activities and supported in 2003 and 2010 under FIST scheme. The School has modern facilities, enabling cutting edge research in a wide spectrum of technological areas. The school actively assists local industries in product design, complex-part manufacturing and Computational Fluid Dynamics. The courses offered cater to the needs of Aerospace, Defense, Manufacturing, Energy and Automotive industries. This has enabled the students to pursue higher studies in leading Universities in India and abroad. Three of the Bachelors Degree Programmes offered by the School, B. Tech. Mechanical Engineering, B.Tech.Mechanical with Specialisation in Automotive Engineering and B.Tech. Mechanical with Specialisation in Energy Engineering are accredited by the Engineering Accreditation Commission of ABET. Mechanical and Manufacturing Engineering are ranked in the top 8-10 in India and top 201-250 worldwide as per QS World University Rankings by Subject 2024. In Engineering and Technology "Mechanical Engineering" Specialisations are ranked within the top 501-600 in the world as per THE World University Ranking by Subject 2024.

Objectives of the Value Added Program

This program aims to increase understanding of sustainability and the circular economy, foster innovation in sustainable practices, promote collaboration across various fields to address sustainability challenges, and develop the skills necessary to lead and implement effective sustainability initiatives.

A hackathon event will be held at the conclusion of the course. The winning team(s) from this hackathon will be considered for internship opportunities at Honeywell Sustainability Center of Excellence. in Madurai, Tamil Nadu, India.

REGISTRATION FEE

Registration fee: Rs.2500/-

- Registration fee includes 18% GST.
- Prospective participants are requested to register for the VAP through the following web link <https://events.vit.ac.in/>
- The number of participants is strictly limited to 50 based on first come first serve.
- Certificates will be issued to all registered participants based on attendance and evaluation.
- Attendance is mandatory for all sessions



Value Added Program on “Emerging trends in Sustainability Engineering and Circular Economy”

04-01-2025 - 06-04-2025
Vellore Institute of Technology, Vellore

REGISTRATION FORM

Name:

Registration Number:

School:.....

Affiliation:

Mailing Address:
.....

.....Pin:

Mobile No:

Email Id:

I would like to participate in Value Added Program

Yes

No

Participant Payment Link : <https://events.vit.ac.in/>

All Correspondence should be addressed to
Prof. Jayakrishna.K
Professor, School of Mechanical Engineering,
VIT, Vellore.

Email: jayakrishna.k@vit.ac.in

Mobile: 9894968596