



About the FDP

This International Faculty Development Programme focuses on sustainable materials, eco-friendly manufacturing processes and emerging technologies that support the global transition toward a circular economy. The programme provides insights into advanced material applications, green additive manufacturing, bio-based polymers, environmentally conscious machining and smart Industry 4.0-driven production strategies.

Important Dates

Last date for Registration : **17.01.2026**
Intimation of selection : **18.01.2026**

Contact Details

Mr.A.Sankara Narayana Murthy, AP/Mech
Mobile : +91-8778488278
E-mail :sankarmech@kamarajengg.edu.in
Dr.S.Muthu Natarajan, AP/Mech
Mobile: +91-9566470389
Email:muthunatarajanmech@kamarajengg.edu.in

Dr.M.Prithiviraj , AP/MTRE
Mobile: +91-9952134072
Email: prithivirajmtr@kamarajengg.edu.in

Course Contents

- Gain comprehensive knowledge on material innovations.
- Explore additive manufacturing with eco-friendly 3D printing material solutions.
- Understand natural fiber composites, bio-polymers, and their emerging applications in industries.
- Industry 4.0 based manufacturing using AI and IoT to minimize industrial waste.
- Acquire practical insights into recycling, remanufacturing, surface engineering and machining for reduced environmental impact.

SDG / PO Mapping

POs Mapped	1,2,3,4,5,7,11
SDGs Mapped	4,9,12,13

*Elevate Your Research,
Elevate Your Career:
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Six-Day online

International FDP

on

Sustainable Materials and

Manufacturing: Paving the Way

for a Circular Economy

From 19.01.2026 to 24.01.2026

(6.00 PM to 8.00 PM)

Conveners

Dr.S.Thanga Kasi Rajan
Associate Professor and Head / MECH
Dr.K.Kannan, Professor & Head / MTRE

Coordinators

Mr. A.Sankara Narayana Murthy, AP/Mech
Dr.S.Muthu Natarajan AP/Mech
&
Dr.M.Prithiviraj AP/MTRE

Organized by
Department of Mechanical Engineering
&
Department of Mechatronics Engineering





About the Department (MECHANICAL)

The Department of Mechanical Engineering was established in the year 2005. The Department is accredited by NBA New Delhi. The Department has highly qualified, experienced faculty members in different fields of specialization, driving student development in academic pursuits and career placement. Our alumni's are occupying accountable positions in several Industries like DRDO, Renault Nissan, TVS Tyres, Mercedes Benz, etc., Our focus is on preparing students to unlock the vast potential of Mechanical Engineering and to provide our students with a comprehensive education that combines theoretical learning with hands-on experiences, enabling them to address the challenges of our society effectively through Total Quality Education.

About the Department (MECHATRONICS)

The Department of Mechatronics Engineering was established in the academic year 2014 –2015 with the vision of creating engineers who can seamlessly integrate mechanical, electronics, computer and control engineering concepts. Mechatronics is a rapidly growing discipline that plays a vital role in modern automation, smart manufacturing and advanced industrial systems. The programme is designed with a strong interdisciplinary approach. Students are well trained in programming and computational skills, experienced in working with microcontrollers, PLCs, and industrial automation systems, practiced in handling hydraulic, pneumatic and electric drive systems, skilled in the design and development of mechanical structures and exposed to industry-oriented manufacturing processes and modern mechanisms, ensuring readiness for Industry 4.0 environments. With this comprehensive training, our graduates are well prepared for careers in automation, automotive, aerospace, manufacturing, robotics and intelligent system design. Our students have been successfully placed in reputed companies such as Tata Advanced Systems, Tata Elxsi, Aditya Birla Group, Renault Nissan, , and other leading industries reflecting the strong academic industry connect and high employability of the programme.

About the College

Established in 1998, Kamraj College of Engineering and Technology (KCET) Virudhunagar, is a autonomous , self financing institution affiliated with Anna University, approved by AICTE and accredited by NAAC. The college offers, UG, PG and PhD programs with a strong emphasis on academic excellence, innovation and research. Seven Research Centers, reflecting the institution commitment. KCET promotes a student- centric infrastructure, experienced faculty, and industrial collaborations. With its focus on holistic development, skill enhancement and real-world problem solving, the institution continues to nurture globally competent professionals prepared to meet evolving technological challenges.

Institute Vision :

To make this Institution the unique of its kind in the field of Research and development activities in this part of the world

Institute Mission :

To impart highly innovative and Technical knowledge to the urban and unreachable rural student folks through "Total Quality Education".

Resource Persons

The FDP will feature distinguished expert from international and national academicians and researchers

Event Details

The session will be conducted through online. Registration confirmation and event details will be sent to selected participants through mail.

Registration Details

Participant selection will be on a first-come, first-served basis. Rs 150/- fee will be charged from the participants, and they will be provided with e-course materials and e-certificates.

Registration Link:



<https://forms.gle/3tDPUCXc4MjRev2h7>

Payment Link (Rs. 150 Per head)



Resource Persons

<i>SI.No</i>	<i>Date</i>	<i>Resource Person & Designation</i>	
1	19/01/2026	Dr. Elammaran Jayamani Associate Professor, Swinburne University of Technology, Sarawak Campus, Malaysia	
2	20/01/2026	Dr. Manoj Kumar S ingh Research Scientist, King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand	
3	21/01/2026	Dr. H Jeevan Rao Postdoc-Nazarbayev University, Kazakhstan, Assistant professor-III,AIAE, Noida	
4	22/01/2026	Dr.R.Prithivirajan Associate Professor, Madanapalle Institute of Technology & Science, Andhra Pradesh, India	
5	23/01/2026	Dr. Kadir GOK Professor, Izmir Bakircay University, Turkey	
6	24/01/2026	Dr. S.C. Vettivel CCET (Degree Wing), Department of Technical Education, Chandigarh UT Administration, Chandigarh, India	