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JSS Mahavidyapeetha



JSS Science and Technology University

Sri Jayachamarajendra College of Engineering, Mysuru – 570006



Four Days Faculty Development program on

Recent Trends in Polymer Processing, Product Design and Applied Rheology

9th - 12th August 2023

Sponsored By



Vision Group on Science and Technology Government of Karnataka

Organized By

Department of Polymer Science and Technology

Sri Jayachamarajendra College of Engineering,
JSSSTU, JSS TI campus, Mysuru

JSS Mahavidyapeetha

JSSMVP established in the year 1954, is the parent organization for 300+ educational institutions spread across India and abroad. **JSSMVP** is active in transforming lives through the philosophy of "Education for all". JSS STU is one amongst the two universities established by JSS MVP. It serves remarkably in religious, social, educational and economic spheres. (jssonline.org/jss)

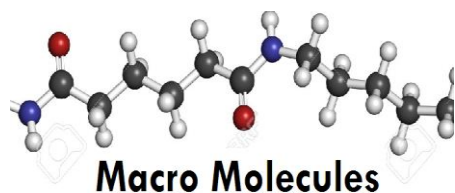
JSS Science and Technology University

Established during 2016 in accordance with GOK, with a motto of 'Science and Technology for Better Living', through National Focus, Global reach & Multidisciplinary approaches. The green campus is major landmark of west Mysuru. (jssstuniv.in)

Sri Jayachamarajendra College of Engineering

Initially, the institute got conceived as **Sri Jayachamarajendra College of Engineering (SJCE)** in 1963 with a motto "A commitment to Technical Education" under the University of Mysore till 1997. Subsequently, it got affiliated to Vishveshvaraya Technological University. Further in 2007, it was accorded Autonomous Status.

It had privilege being - AICTE approved, Govt. Aided, lead institute with assistance from the World Bank under TEQIP Scheme & lot of achievements in curricular, co-curricular and extra-curricular activities along with the excellent campus placement records. Currently it is a constituent college of JSSSTU. (sice.ac.in)



Department of Polymer Science and Technology (PST)



PST Overview (Highlights/Achievements)

- * Established during 1987-88
- * Only department in state offering engineering degree in Polymer Science and Technology
- * Also offers MTech in PST , MTech in material science and Engineering, MSc in Polymer science and PhD.
- * Practicing outcome based education
- * Highly recognized faculty (> 10 awards)
- * NBA accredited six times
- * Excellent Research facilities
- * Active in R&D: >35 PhDs, >400 research papers, >5 patents
- * Good number of R&D projects sponsored by UGC, CSIR, DST, DRDO, VGST, KSCST, SERB & others
- * Research collaboration with Universities in South Korea, Brazil, France, Manchester, North Carolina, Malaysia, IITs, NITs, IISc, etc.
- * Excellent industry-institute interactions
- * Hosted 4 GIAN (MHRD sponsored) courses inviting foreign professors.
- * Nodal point for professional bodies like
 - Indian Plastics Institute (IPI) Mysuru chapter
 - Indian Rubber Institute (IRI) Karnataka Branch
- * Conducts Triennial national conference POLYCON and international conference ICMAT.
- * MOUs with JBNU, South Korea; IRI; Toyoda Gosei; Asian Polymers; UTC Aerospace; H&V; Ujjwal Ind. Corp.
- * Strong rapport with alumni (> 23 entrepreneurs)
- * Consultancy Services (~9 lakhs per year)

DETAILS OF THE FACULTY DEVELOPMENT PROGRAMME

Title of the program: Recent Trends in Polymer Processing, Product Design and Applied Rheology

Objectives of the program:

- To upgrade the knowledge about recent advances in polymer processing, product design and rheology.
- To understand the industry trends and research opportunities in the allied field.
- To select the suitable processing technique for the customized/newly developed material.

Relevance of the Topic: Since in recent years most of the conventional materials (metals, ceramics) are replaced by polymeric materials in the advanced fields like defense, aerospace, automotive, biomedical etc., There is a need to understand the processing aspects of the polymers to convert the raw material into useful product with desired set of functionalities. Understanding rheological behavior of polymers is very essential to finetune the processing parameters. Light weight, ergonomic product design without sacrificing strength and performance is the need of the day. All these aspects are addressed in the proposed FDP.

Scope of the programme :

- The program helps in better interpretation of rheological behavior of polymers during processing.
- Confident to troubleshoot the expected/unexpected problems which arise during processing.
- To gain knowledge about various simulation software's used for polymer product design and process modelling.
- An exposure to recent advances in the field.

Registration Process:

Registration can be done using the link

<https://forms.gle/v6LMsknmk12GRb8q9>

No registration fees

Certificates will be issued after the completion of the FDP

Last Date for Registration: 20th July 2023

