



THRIVE
laboratory

SMILE
laboratory



SERB SPONSORED

Jointly Organized

FDP ON SMART TEXTILE: MATERIALS TO DEVICES

March 18 & 19, 2024

(Hybrid mode)

About IIITDM Kancheepuram

Indian Institute of Information Technology, Design and Manufacturing (IIITDM Kancheepuram) is an Institute of National Importance established in 2007, by the Ministry of Human Resource Development, Government of India, to pursue design and manufacturing oriented engineering education and research and to promote the competitive advantages of Indian products in global markets. The institute offers academic and research programs that integrate engineering design, manufacturing and management with information technology. With mastery in domain specific design, engineering skills and required managerial expertise, the graduates can become entrepreneurs involved in the design and manufacture of commercially successful electronic or mechanical products.

About SERB

SERB has a vision to position science and technology as the fulcrum for social and economic change by supporting competitive, relevant and quality scientific research and development. As the premier national research funding agency, the mission is to raise the quality and footprint of Indian science and engineering to the highest global levels in an accelerated mode, through calibrated, competitive support of research and development. Although a nascent organization, SERB can trace its existence to the erstwhile Science and Engineering Research Council (SERC), a division of Department of Science & Technology that provided extramural funding for S&T research in India for more than four decades. Creation of SERB, in year 2011, is considered as an important institutional milestone in the Indian S&T ecosystem.

About the Program

Over the past 20 years, wireless technologies have evolved as promising solutions for moving from laboratory-based mobility measurements to free-living. Several potential wearable devices have been designed for customized mobile healthcare monitoring and management.

Artificial Intelligence (AI) pushes the envelope of wearable technology further by enabling devices to envision health and wellbeing with useful insights. The advantage of integrating AI with wearable technology has the potential to analyze a wide range of valuable data for continuous health monitoring. An AI-enabled wearable device would be capable of learning the user's patterns to assess the underlying conditions, possibly generating warning signals. A series of data preprocessing, feature extraction, and pattern recognition techniques would be utilized to extract the information of interest. With applications being on the rise, wearable intelligence devices are becoming true assistants and thus improving the customer experience.

In view of this, a program on 'FDP on Smart Textile: Materials to Devices' is expected to benefit the faculty and scholars from engineering and science institutions, and researchers from research labs, to broaden their knowledge and hands-on-utility of artificial intelligence in wearable technology.

Important Information for Participants

- The proposed workshop is meant to support motivated Faculties and Research Scholars willing to achieve excellence in their scientific and engineering research pursuits in wearable healthcare devices.
- The FDP will be conducted in hybrid mode, and **Registration is free** for all participants. No TA/DA will be provided.
- Seats are limited (Research scholars: 10 and Faculty: 25), and the participants are selected by organizers on a first-come, first-serve basis.
- Shortlisted candidates will be informed through their email.
- Upon completion of the course, all participants' objective/quiz-based assessments will be done.
- Participants interested in attending this program Should register online at the below-mentioned link: <https://forms.gle/TJmFNSQ2oMbuBJSQ8>.
- **Last date of registration: 15.03.2024.** Selected participants will be informed through email.

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