



THRIVE SMILE
Laboratory Laboratory



GENTECH
INSPIRING RESEARCH



IMOTIONS
Powering human insight

2nd International workshop on Wearable Biomedical devices for Clinical Diagnosis (WeBCD 2025)

Theme: Ocular and Vision-driven innovations

(Jointly organized with Gentech Pvt Ltd & iMotions)

November 6th to 8th, 2025 (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 the Program

Over the past 20 years, wearable 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. Among these, wearable eye-based devices are emerging as an important category of next-generation biomedical technologies. By utilizing information derived from the bio-signals, these devices enable continuous and non-invasive monitoring of various aspects of human health. They provide valuable data that can support early detection of changes in physiological or cognitive states and contribute to more personalized approaches to healthcare and well-being.

Additionally, it not only enhances the efficiency of diagnosis but also promotes patient engagement and enables personalized healthcare delivery. As technology continues to advance, these devices hold immense promise in transforming the way diseases are diagnosed, monitored, and managed, ultimately improving patient outcomes and quality of life.

More Information:



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Course Content

The Major contents of the program are

- Facial expression analysis
- Pupillometry-based analysis
- EOG Signal acquisition and analysis
- Eye Tracking
- Use of machine learning and deep learning algorithm as support entity
- Next-generation ocular wearable medical devices
- Future roadmap and forecast for AI in wearable technology healthcare
- Product Development
- Industrial demo & interaction

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 biomedical on wearable technologies
- WeBCD 2025 will be conducted in hybrid mode, and **Registration is Rs. 2000/-** for all participants. No TA/DA will be provided and Nonrefundable fee inclusive of 18% GST. Accommodation will be provided on chargeable basis as per institute norms.
- Following the procedures for payment in SBI Collect:
 - <https://onlinesbi.sbi.bank.in/sbicollect/>
 - Steps: Proceed Tamil Nadu --> Educational Institutions --> IIITDM - educational events – WeBCD2025 – category
- Upon completion of the course, all participants' objective/quiz-based assessments will be done and certificate will be issued.
- Participants interested in attending this program Should register online at the below-mentioned link:
- <https://forms.gle/M1qzBdhB7rjL8Wou9>
- **Last date of registration: 01.11.2025.** Selected participants will be informed through email.

Cheif Patron

Prof. M.V. Kartikeyan
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Patron

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