SEMINAR

Date: 10-10-2026

Title: AI-Based Flexible and Conformal Electronics for Future Applications

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Professor, Dean R&D, KL University, Vja.

Participants: III B.Sc. Electronics, II B.Sc. Electronics, I B.Sc. Electronics, II BCA, and II AI**.**

Description of the Programme:

A seminar on **"AI-Based Flexible and Conformal Electronics for Future Applications"** was conducted on 10-10-2026 to create awareness about emerging technologies and their role in the development of intelligent electronic systems. The seminar was attended by students of III B.Sc. Electronics, II B.Sc. Electronics, I B.Sc. Electronics, II BCA, and II AI**.**

The seminar focused on the integration of Artificial Intelligence (AI) with flexible and conformal electronics. Flexible electronics are electronic devices designed using bendable materials, while conformal electronics can adapt to curved or irregular surfaces. The integration of AI enables these devices to analyse data, recognize patterns, and make intelligent decisions in real time.

Various applications of these technologies were discussed, including healthcare monitoring, wearable devices, robotics, smart textiles, electronic skin, and human-machine interaction. The students learned how AI-powered flexible sensors can monitor vital signs, detect abnormalities, and support the development of advanced medical and industrial devices.

The seminar also highlighted challenges such as power consumption, durability, data privacy, and material limitations. Emerging developments in nanotechnology, smart materials, and machine learning are expected to improve the performance and efficiency of these devices.





