

IMPORTANT DATES

Last Date for Registration : 30.04.2026
Intimation of selection : 01.05.2026
Confirmation by Participants : 02.05.2026

REGISTRATION LINK

<https://forms.gle/PFsjmXvILSbq5eVw8>



ORGANIZING COMMITTEE

CHIEF PATRON	Thiru. G. Kamalamurugan, Correspondent, ESEC
PATRON	Thiru. S. N. Thangaraju Secretary, ESET
CHAIRMAN	Dr. V. Venkatachalam, Principal, ESEC

Dr. J. Vijay Franklin, HoD / CSE

CONVENERS

Ms. M. Sakthivel, AP / CSE
Ms. M. Kowsalya, AP / CSE



ADDRESS FOR CORRESPONDANCE

Ms. M. Sakthivel,
Assistant Professor,
Department of CSE
Erode Sengunthar Engineering
College (Autonomous), Perundurai, Erode - 638 057
Mobile: +91 6381016159
Email: sakthivelmcs@esec.ac.in



ANRF SPONSORED

Five-Days National Level Workshop on

**"Dynamic Semantic Perception :
Photonic Spiking Neural Networks for
Multi-Agent 6G V2X Orchestration in
Medical IoT via surgeons (H-MR) Intelligence"**

04th to 08th May 2026

Organized by

**DEPARTMENT OF
COMPUTER SCIENCE AND
ENGINEERING**



**ERODE SENGUNTHAR
ENGINEERING COLLEGE**

(AUTONOMOUS)

PERUNDURAI, ERODE - 638 057

ABOUT THE COLLEGE

Erode Sengunthar Engineering College, approved by AICTE and affiliated to Anna University, Chennai was established in the year 1996 for the upliftment of urban and rural youth by the philanthropic visionaries of Erode Sengunthar Educational Trust. The college offers eighteen UG programmes in Engineering and ten PG programmes in M.E. Computer Science and Engineering, M.E Industrial Safety Engineering, M.Tech Chemical Engineering, M.E Structural Engineering, M.E. Manufacturing Engineering, M.E. Power Electronics and Drives, M.E. Applied Electronics, M.E. Environmental Engineering, M.C.A and M.B.A. It has full-fledged infrastructure furnished in all aspects.

The Institution is known for strict academic discipline and creating students of the best quality product standards and is one of the best run institutions in this part of Tamilnadu. It is also well- connected by bus routes from Erode (25km.) Coimbatore (80 km.) and Salem (80 km.). The nearest Airports are located at Coimbatore and Salem. The College is accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade and ISO 9001:2008 Certified Institution.

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering has been successfully functioning since 1996. The department comprises 5 centralized air-conditioned computer centers with 200 systems, with sufficient power supply backup. The department comprises 5 centralized air-conditioned AR/VR Lab with 100 systems.

The department has signed MoU with various companies and has collaboration with Research and Development/student projects/Consultancy works.



OBJECTIVE OF THE WORKSHOP

- Provide Dynamic Semantic Awareness frameworks for Medical IoT (MIoT) networks using next-generation 6G V2X connection.
- Investigate how Photonic Spiking Neural Networks (PSNNs) can contribute to multi-agent orchestration through offering ultra-low latency, energy efficiency, and real-time intelligence.
- Illustrate how surgeons-in-the-loop can be integrated with Human-Machine Reasoning (H-MR) intelligence to provide context-aware, safe, and explicable medical decision support.
- Examine semantic-aware V2X communication for dependable coordination between autonomous agents, medical devices, and networked infrastructure.
- To talk about collaborative intelligence models that use distributed AI agents to improve emergency response, remote intervention, and surgical precision
- Draw attention to the difficulties, possibilities, and future research paths in photonic neuromorphic computing for 6G networks powered by healthcare.



FACULTY

Sessions will be handled by Experts from reputed Institutions in the field of Quantum Computing. Concepts related to Quantum Computing areas will be shared to enhance their knowledge relevant to the Seminar.

ELIGIBILITY

Faculties and Students from AICTE approved Institutions and Industries with relevant background in CSD/AI&DS/CSE/ECE/BIO and IT branches are eligible for the programme.

BOARDING AND LODGING

Boarding and lodging will be provided to the participants in the college campus. Accommodation is free.

ABOUT THE LOCATION

The college is situated at Perundurai on the National highway (NH-47) about 20 km from Erode and 50 km from Coimbatore. It is well connected by road and rail.

