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Registration fee:

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Last Date For Registration: 15.09.2026

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ELIGIBILITY

Faculty / Research scholars / Industrial Professionals from Engineering Colleges/ Universities/ Research Organizations/ Industries are eligible to attend the FDP.

ADDRESS FOR COMMUNICATION

Dr. S. Jayalakshmy, ASP/ECE

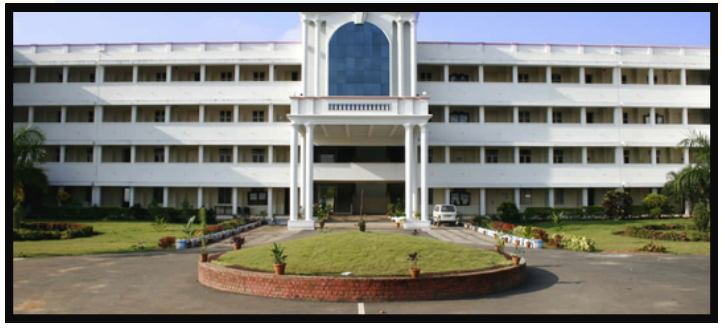
IFET College of Engineering

Gangarampalayam

Villupuram-605108 Tamil Nadu

9994191007

jayalakshmyece@ifet.ac.in



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ABOUT COLLEGE

IFET College of Engineering, which has emerged as an autonomous Institution of repute, was established in the year 1998 under the aegis of Indo French Educational Trust. The college which has gained high reputation in the society through its academic excellence and placement records is located at Villupuram, Tamilnadu. The institution is affiliated to Anna University and has been accredited by NAAC and NBA. The college is also recognized by UGC under 2(f), and 12(b) status. The college presently offers 10 UG Programmes in the discipline of CSE, CIVIL, ECE, EEE, MECH, IT, CS, AI & DS, AI & ML, ECE(VLSI), 3 PG programmes in the specialization of CSE, Applied Electronics and MBA. The recognized Research Centers by Anna University conduct Ph.D programmes for three departments ECE, CSE ,MECHANICAL. Department of Scientific and Industrial Research (DSIR) has recognized IFETCE as a Scientific and Industrial Research Organisation (SIRO).

ABOUT ECE DEPARTMENT

The Electronics and Communication Engineering Department, established in 1998, stands as a testament to academic excellence and innovation. Recognized as a Research Centre by Anna University, the department has consistently nurtured a dynamic learning environment. Equipped with state-of-the-art laboratories and cutting-edge technology, it is well-prepared to meet the ever-evolving demands of the curriculum. The department fosters an ecosystem that encourages innovation and practical learning, empowering students to excel in both academia and industry. The department has also secured funding from prestigious agencies such as AICTE, MeitY, ISRO, ICMR, and other funding agencies to organize FDPs, workshops, conferences, and other academic and research activities.

ABOUT CSE DEPARTMENT

The Department of Computer Science & Engineering was established in 2001 with the launch of its B.E. programme. Since its inception, the department has been committed to achieving high standards of excellence by fostering a culture of innovation and academic rigour. Recognized as a Research Centre by Anna University, the department actively promotes research and development activities in emerging areas of computing and information technology. Equipped with state-of-the-art computing facilities and well-structured laboratories, the department provides students with hands-on experience across a wide range of software applications and technologies. A strong emphasis is placed on industry readiness, ensuring that students are well prepared to excel in professional environments before they graduate. The department actively encourages students to innovate and develop impactful projects that contribute meaningfully to society and the nation. The department has also secured funding from prestigious agencies such as AICTE, MeitY, ISRO, ICMR, and other funding agencies to organize FDPs, workshops, conferences, and other academic and research activities.

ABOUT FDP

The Faculty Development Programme on “AI-Driven Medical Optics: Smart Imaging, Optical Diagnostics and Intelligent Healthcare Systems” focuses on the emerging convergence of Artificial Intelligence, photonics, medical optics, biomedical imaging, optical sensing, and intelligent healthcare systems. Recent developments in AI-assisted optical sensing and medical imaging are enabling improved image interpretation, automated disease detection, non-invasive diagnostics, real-time monitoring, and intelligent clinical decision support. IEEE activities in medical optics and optical AI similarly highlight areas such as biophotonics, computational imaging, optical sensing, and AI-enabled healthcare technologies.

OBJECTIVES OF THE FDP

- Explore AI and machine learning techniques for medical imaging.
- Understand smart optical imaging modalities such as OCT, spectroscopy, microscopy, and photoacoustic imaging.
- Understand the integration of AI with medical optics and smart healthcare systems.
- Examine current advancements in smart imaging and Optical diagnostic tools.
- Bridge the gap between engineering innovations and practical medical applications.

TOPICS TO BE COVERED

- AI-Driven Medical Optics: Emerging Trends, Challenges, and Future Directions
- Artificial Intelligence and Emerging Technologies for Smart Healthcare Systems
- AI-Driven Medical Sensor Analytics and Secure IDS Systems for Intelligent IoMT Healthcare Applications
- Advancements in Endoscopic and Fluorescence Imaging Optical Diagnostics in Robotic imaging
- Explainable AI for medical imaging
- AI in clinical field -Challenges and opportunities