**Institution Name:** Kongunadu College of Engineering and Technology

**Event Type:** Faculty Development Programme

**Event Name:**

Transforming Tomorrow: Unleashing the Power of Machine Learning and Cutting-edge Signal & Image Processing for Healthcare

**Event Start Date:** 26-05-2025

**Event End Date:** 30-05-2025

**FDP Mode:** Online

**FDP Organizing Department:** Department of Biomedical Engineering

**About FDP:**

The objective of this FDP is to enhance the knowledge, skills and teaching abilities of the faculty members in the rapidly evolving field. This FDP would be helpful platform for updating the knowledge in the emerging areas of the Machine Learning in Healthcare, Signal Processing & Image Processing for Healthcare, Image Processing for Healthcare, Internet of Medical Things, Quality management systems, Artificial intelligence in the Healthcare, recent advancements in the Healthcare.

80% Attendance and 60% Assessment marks will be key factor for issuing the online certificate. The tools, skills and knowledge acquired in this FDP will be helpful in educating the next generation and drive research and innovations needed for the society"

**Topics Covered:**

* Advanced concepts in Biomedical Signal Processing
* Ethics and Privacy in Healthcare AI.
* Future Trends in Healthcare Technology
* Generative AI in Healthcare.
* AI Chatbots and Virtual Health Assistants:
* Medical Imaging Modalities
* Future of robotic-assisted surgeries and postsurgery rehabilitation

**Speakers:** Add speakers details if available

**Who can participate?** Research Scholars /Faculty/Industry Persons

**Registration Fee:**

* Research Scholars /Faculty: Rs.250
* Industrial Persons: Rs.300

The Registration fee has to be paid through a Demand Draft (DD) drawn in favor of

* **Name:** The Principal, Kongunadu College of Engineering and Technology
* **Account Number:** xxxxxxxxxxxx
* **IFSC:** xxxxxxxxxxxxx
* **MICR NO:** xxxxxxxxxxxx
* **Bank:** xxxxxxxxxxxxxx
* **Branch :** xxxxxxxxxxx
* **Branch Code:** xxxxxxxxxx

**Mandatory Note:** If payment is collected other than College account, Principal/Institution head should be authorized with signature and seal in Institution letter head.

**College Website:** www.kongunadu.ac.in

**How to Apply:** **Online (Google Form link-** [***Clickhere***](https://docs.google.com/forms/d/e/1FAIpQLSfZXDtGqRv8CiJ-iybywEkXFh_xm0_FsriAo2mQtDUORLFtrA/viewform)**)**

**Important Dates:**

* Last Date for Registration: 17.05.2025
* Intimation of Selection: 20.05.2025

**Contact Person:** Dr.P. Elamurugan, Professor ,99xxxxxxx59

**Institution Address:**

Kongunadu College of Engineering and Technology,  
Tholurpatti, Thottiyam Taluk,  
Trichy-621215.

**Google Map- Event Location:** [***https://maps.app.goo.gl/fpjGDQAYYRbBjBCf8***](https://maps.app.goo.gl/fpjGDQAYYRbBjBCf8)

**Event Brochure:** [**Clickhere**](https://drive.google.com/file/d/1lm2SwT1n9s2U4Y5r6qCHyNccYX32wEsi/view?pli=1)

**About Institution:**

Kongunadu College of Engineering and Technology is a self-financing, Autonomous institution established in the year 2007. Approved by AICTE-New Delhi, Affiliated to Anna University-Chennai, Accredited by NBA(CSE, ECE, EEE and Mech) and NAAC, Recognized by UGC with 2(f) & 12(B) and Certified by ISO 9001:2015. The college has 9 Undergraduate Programs (ADS, AGRI, BME, Civil, CSE, ECE, EEE, IT and Mechanical Engineering) and 2 Post Graduate programs (Applied Electronics and CSE). Department of Electronics and Communication Engineering, Mechanical Engineering and Information Technology have been approved as Research Centers for doing Doctoral programmes by Anna University. Students of KNCET are groomed by the Campus to Corporate team in the areas of communication, soft skills and aptitude and life skills to achieve placements in the renowned IT, ITES, Core and Startup companies. The International Cell of the institution assists interested students to catch up abroad placements and studies. This institution has received many awards and recognition from the government and private authorities in the form research grants from AICTE, DST, MSME, Unnat Bharath Abhiyan. It has signed MoUs with Industries, Academic Institutions, Hospitals and R&D Institutions. This institution is known for its outstanding contribution to improve the education of the people by virtue of its discipline, modern infrastructure, library and faculty members.

**About Department:**

The department was established in the year 2020 with a vision to address the prevailing health sector challenges. This four-year degree programme on Biomedical engineering will nurture the young minds with fundamental knowledge of Biological Sciences such as Human Anatomy, Physiology, Pathology and Microbiology. With this the student would also gain knowledge about Electronics, Measurements and Instrumentation to Design, Analyze, Synthesize and such as X-ray, CT, MRI, PET, Ventilators, Pacemakers, Dialyzer to serve the Medical community. The students will be guided to have periodical visits to the hospitals for bridging the gap between the class room learning and the real time issues.Prosthetic devices for the physically challenged, Therapeutic equipments to replace the conventional medicines will also be part of the learning to this stream of engineers. This department has a well-established relationship with industrial experts and physicians of different expertise to keep itself updated and live up to the expectations of the contemporary world. The infrastructure provides a very good environment for learning and developing skills in thebiomedical field. The department is enriched with well-experienced faculty members and has a conducive lab environment for learning.

**Signature of Principal/Institution Head**

**(With Seal)**