



VIT[®]
 Vellore Institute of Technology
 (Deemed to be University under section 3 of UGC Act, 1956)

Five-day Faculty Development Program
 on

From Deep Learning to Agentic AI: Intelligent Decision-Making in Healthcare Applications

16-23 March, 2026

Department of

Sensor and

Biomedical Technology

**School of Electronics Engineering
 (SENSE)**

**Vellore Institute of Technology,
 Vellore-632 014. India.**



About VIT

VIT was established with the aim of providing quality higher education on par with international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned teachers are strongly encouraged to nurture the students. The global standards set at VIT in the field of teaching and research spur us on in our relentless pursuit of excellence. Our Memoranda of Understanding with various international universities are our major strength. They provide for an exchange of students and faculty and encourage joint research projects for the mutual benefit of these universities. With steady steps, we continue our march forward.

About SENSE

VIT SENSE at VIT was established to impart state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. The school has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, Embedded, Sensors, Nano technology and Biomedical technology. The latest simulation tools are used to cater to various specializations and are equipped with facilities for measurement, characterization and synthesis of experimental as well as theoretical results. The School has many industry-sponsored advanced laboratories for carrying out research and development. MoUs with many Foreign Universities, Research Organizations and Industries facilitate student and faculty exchange.

About FDP

The objective of the programme is to provide a comprehensive and forward-looking understanding of how artificial intelligence is evolving from data-driven predictive models to autonomous, goal-oriented intelligent agents capable of complex clinical decision-making. The programme aims to equip participants with strong conceptual foundations, practical implementation skills, and research-oriented insights required to design next-generation AI systems for healthcare.

The main objective is to build a solid understanding of Deep Learning techniques that form the backbone of modern healthcare AI systems. Participants will explore advanced neural network architectures such as Convolutional Neural Networks (CNNs) for medical image analysis, Recurrent Neural Networks (RNNs) and Transformers for sequential biomedical data, and multimodal learning frameworks for integrating electronic health records, physiological signals, and imaging data. The programme will emphasize how deep learning models are applied in Disease diagnosis, Risk prediction, Medical imaging interpretation, Drug discovery, and Remote patient monitoring.

Who can apply?

- Faculty Members
- Research Scholars
- PG Students
- Industry Professionals

Registration Fees:

Participant type	Amount
Faculty Members Research Scholars PG Students (VIT, Vellore)	NIL
External Participants	Rs. 590 (Incl. GST)

Certificates will be issued to all the registered participants fulfilling the necessary criteria

Registration/Payment Link:

- For VIT Vellore:
<https://tinyurl.com/ms6d8xyd>
- For Others:
<https://events.vit.ac.in/>
- **Last Date for Registration:**
16th March 2026

Mode: **Online**

Platform : **MS Teams**

Time: **10:00 A.M. to 5:00 P.M. (IST)**

Experts



Dr. K. Nagaraju,
Assistant Professor,
Dept., of CSE, IIITDM Kurnool.



Dr. S. Jenicka,
Associate Professor Grade 2,
SCOPE, VIT Vellore.



Mr. Sowmyo Dey,
Co-founder&CTO,Cornet
Health Bengaluru.



Dr. U.S.B.K. Mahalaxmi,
Associate Professor,
Aditya University, Surampalem.



Mr. Manoj Biswal,
VVDN Technologies,
Gurugram, Haryana.



Dr. Kamanasish Bhattacharjee
Assistant Professor,
Dept. of CSE, NIT Agartala.



Mr. Deva P Seetharam
Founder, Kailash Advisory
Services, Bengaluru.



Dr. Y. Nancy Jane,
Assistant Professor,
Anna University, Chennai.



Dr. Pourmani. P N
Associate Professor,
NIT Calicut.



Dr. Sudhanshu Arya,
SENSE
VIT Vellore.

Advisory Committee Advisors

Dr. Jasmine Pemeena Priyadarsini. M
Professor & Dean, SENSE

Dr. Sakthivel. R
Professor & Associate Dean, SENSE

Dr. Sathya. P
Associate Professor Sr. & HoD,
Sensor and Biomedical Technology, SENSE

Faculty Coordinators

Dr. Jeeva. J B
Associate Professor Senior
Dept. of Sensor & Biomedical Technology
Mobile: 9994321835
Email: jbjeeva@vit.ac.in

Dr. Jaffino. G
Assistant Professor Senior Grade 2
Dept. of Sensor & Biomedical Technology
Mobile: 8903671989
Email: jaffino.g@vit.ac.in

School of Electronics Engineering
Vellore Institute of Technology,
Vellore,
Tamil Nadu – 632 014. India



Topics

- Deep Learning Techniques For Healthcare AI Systems
- Advanced Neural Network Architectures
- Convolutional Neural Networks (CNNs)
- Recurrent Neural Networks (RNNs)
- Transformers For Sequential Biomedical Data
- Multimodal Learning Frameworks For Integrating Electronic Health Records

