



VIT[®]

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



Online Faculty Development Program on

*AI based Vehicular Network towards 6G and IoT:
Deep Learning Approaches*
17th March to 22nd March 2025



Organized by
Department of Embedded Technology
&
**Department of Sensor and Biomedical
Technology**
School of Electronics Engineering
Vellore, Tamil Nadu – 632 014, India.

Co-Sponsors



Technical Sponsors



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 spurs 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. We look forward to meeting you here at VIT.

School of Electronics Engineering (SENSE)

SENSE at VIT was established for imparting 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 and Nanotechnology.

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 Industries sponsored advanced laboratories for carrying research and development. MoUs with many Foreign Universities, Research Organizations and Industries facilitate Student and Faculty exchange.

About FDP

With the deployment of 5G, researchers and experts begin to look forward to 6G. They predict that 6G will be the key driving force for information

interaction and social life after 2030. With the help of Artificial Intelligence (AI), 6G will be a highly autonomous closed-loop network, and will make up for 5G's shortcomings in communications, computing and global coverage, achieving AI of Things (AIoT). In 6G life, vehicles may become another indispensable device for people besides smartphones, and non-polluting, highly safe as well as full-autonomous vehicles will be the goal of vehicular development. In order to ensure the safe driving of future vehicles and meet the entertainment needs of passengers, it is necessary to investigate future 6G Vehicular intelligence

In recent years, vehicular networks have become increasingly large, heterogeneous, and dynamic, making it difficult to meet strict requirements of ultralow latency, high reliability, high security, and massive connections for next generation (6G) networks. Recently, Deep Learning (DL) has emerged as a powerful AI technique to optimize the efficiency and adaptability of vehicle and wireless communication. The FDP will boost Faculty Members, Research Scholars and Research enthusiast to venture towards developing Deep learning models towards AI based Vehicular Networks toward 6G and IoT.

Who can attend?

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

Time: 10.00 AM – 05.00 PM(IST)

Registration Link

- ❖ For VIT, Vellore: <http://tiny.cc/aivn6giot>
- ❖ For Others: Refer Payment Link

Payment Link:

- ❖ <https://events.vit.ac.in/>

Last Date for Registration: 17th March 2025

Registration Fees

Participant Type	Amount
For Faculty Members, Research Scholars & PG Students of VIT, Vellore.	Nil
For Others	Rs.500/- (inclusive of 18% GST)

Certificate will be issued to all the registered participants fulfilling the necessary criteria.

List of Speakers

1) Recent trends of AI in Automotive

Dr. Aswineshadri K

Deputy General Manager,
Motherson Technology Service Ltd. (MTSL),
Chennai.

2) ADAS and DMS with Advanced Deep Learning

Dr. Shriram Vasudevan

TEDx Speaker, Lead Technical,
Intel Corporation, Bengaluru.

3) Role of 6G & IoT in Level 4 and Level 5 Autonomous Vehicles

Shri.Denathayalan R

Senior Manager, Satyam Venture,
Hyderabad.

4) Deep Learning trendy Architectures

Shri. Jai Ganesh Suresh

Senior AI Architect Lead
Valeo, Chennai.

5) Automotive Embedded Systems

Shri. Senthil Kumar M R

Director-Technical,
Pantech Solutions India Pvt. Ltd., Chennai.

6) Deep Learning under Water Image Analysis

Dr. Badri Narayan Subudhi

Associate Professor,
Electrical Engineering
IIT Jammu.

7) Deep Learning

Dr. Sridevi M

Associate Professor, Computer Science &
Engineering,
National Institute of Technology, Trichy.

8) Next Generation Smart Antenna Systems

Dr. Gulam Nabi Alsath M

Associate Professor, Electronics and
Communication Engineering, College of
Engineering, Guindy,
Anna University, Chennai.

9) Role of millimeter wave RADAR in Autonomous Vehicles

Dr. Valarmathi J

Professor HAG, Communication
Engineering, School of Electronics
Engineering, VIT, Vellore.

10) Intelligent Vehicular Communication with 5G and IoT

Dr. Sujatha R

Professor, Embedded Technology
School of Electronics Engineering,
VIT, Vellore.

11) Bias and Fairness of AI

Dr. Kamanasish Bhattacharjee

Asst. Professor Sr. Grade 1, Analytics,
School of School of Computer Science and
Engineering,
VIT, Vellore.

Advisors

Dr. Jasmin Pemeena Priyadarisini

Professor HAG & Dean, SENSE

Dr. Sakthivel R

Professor & Associate Dean, SENSE

Dr.Karthikeyan B

Associate Professor & HoD,
Embedded Technology, SENSE

Dr.Vidhya S

Professor Grade 1 & HoD,
Sensor & Biomedical Technology, SENSE

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