Organising Committee

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Dr. G. Viswanathan, Chancellor

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Convener:

Dr. N. Jaisankar, Dean In-charge, SCOPE

Co-Convener:

Dr. H Parveen Sultana, Associate Dean In-charge, SCOPE

Organizing Secretaries:

Dr. Boominathan P
Head - Software Systems
SCOPE

Dr. C. Sathiya Kumar
Head - Quantum AI
SCOPE

Coordinators:

Dr. Anindita Kundu , Associate Professor
Department of Software Systems
SCOPE

Dr. Badrinath N, Associate Professor
Department of Quantum AI
SCOPE

Speakers of the Programme



Mr. Subham Sen,
Co-Founder & CTO, QuarkGen AI, Kolkata
Title of the Talk: Inside the Connected Drone: Architecture, Communication Systems, and 5G



Mr. Sourav Saha,
Co-Founder & Principal AI Engineer, QaurkGen AI, Kolkata
Title of the Talk: Beyond Remote Control: Autonomous Navigation, Intelligent Drones, and Real-World Applications



Dr. Deborsi Basu,
Scientific Researcher – 6G Networks Team, Ericsson Research India, Bengaluru
Title of the Talk: Softwarized 6G enabled UAV system for next generation non terrestrial networks



Dr. Sathian Dananjayan, Associate Professor, VIT, Chennai, India
Title of the Talk: UAV Swarm Intelligence and Security

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

VELLORE INSTITUTE OF TECHNOLOGY
VELLORE

ONE DAY NATIONAL HANDS - ON WORKSHOP ON

CONNECTED, AUTONOMOUS, AND SECURE UAVs

From 5G to 6G and Beyond
(Hybrid Mode)

27th November, 2026



Organized by

School of Computer Science and Engineering (SCOPE)

Vellore Institute of Technology
Vellore – 632 014

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.

About SCOPE

The school has one of the best infrastructure including domain-specific labs associated with the technical departments. The main aim is to produce computing graduates with potential, to design and develop systems involving the integration of software and hardware devices, employ innovative approaches in programming and problem solving, and create Large Scale Software Systems. With an objective of developing core competence in the subject matter specializations and special interest groups for learning newer technologies. The school has formed the following technical departments:

- Department of Analytics
- Department of Computational Intelligence
- Department of Database Systems
- Department of Software Systems
- Department of Information Security
- Department of IoT
- Department of Quantum AI

OBJECTIVE OF THE WORKSHOP

The workshop aims to provide participants with insights into the emerging technologies and advancements in Connected, Autonomous, and Secure UAV systems, focusing on the transition from 5G to 6G-enabled aerial networks. It seeks to explore UAV architectures, intelligent navigation, AI-driven autonomous operations, softwarized 6G connectivity, non-terrestrial networks, and UAV swarm intelligence. The workshop will also address security challenges, potential cyber threats, and defence mechanisms in coordinated UAV environments, while providing hands-on exposure to UAV communication simulation and swarm security analysis. Through expert interactions and practical sessions, it intends to equip faculty members, researchers, students, and industry professionals with the knowledge and skills required to understand and contribute to next-generation intelligent, reliable, and secure UAV ecosystems.

ABOUT THE WORKSHOP

Unmanned Aerial Vehicles (UAVs) are transforming sectors ranging from surveillance and disaster management to agriculture, healthcare and logistics. As 5G evolves toward 6G, UAVs are becoming connected, intelligent and increasingly autonomous networked platforms. This workshop brings together academic and industry perspectives to examine the convergence of UAV systems, next-generation wireless communication, autonomous operation and security. Participants will explore enabling architectures, emerging applications, swarm coordination and the challenges of building dependable aerial networks.

Target Audience:

Faculty members, Staffs, Research Scholars, UG and
PG students

Registration:

The participants are requested to register for the workshop through the following link

https://events.vit.ac.in/event/001266

Registration fee (Including GST):

- **Faculty Members : Rs. 400/-**
- **Research Scholars : Rs. 300/-**
- **Staffs : Rs. 200/-**
- **UG/PG Students : Rs. 200/-**

Last date for registration: 27.11.2026

Participants can complete the workshop registration fee payment by scanning the QR code provided below. After successful payment, participants are requested to retain the transaction receipt for future reference and complete the registration process through the official VIT registration link.

Registration and Payment Link:
https://events.vit.ac.in/event/001266

QR Code:

Join us for an insightful exploration of the next frontier in UAV and 6G technologies!