

WHO CAN ATTEND

Professors/Associate Professors/ Faculty members with research interest/Research Scholars from various departments like ECE, CSE, BME, Biotechnology, Mechanical Engineering and Industrial personnel can attend the programme.

REGISTRATION FEE

No registration fee for the participants.

Lunch and Refreshments will be provided to all the registered participants. **TA will be provided to the participants.**

DATES TO REMEMBER

Participants Registration Deadline: 18-11-2023

SESSION DETAILS

Offline Session 9:00 am - 5:30 pm

From: 20-11-2023 To 25-11-2023

KEYNOTE SPEAKER

- **Dr. Mohanasankar Sivaprakasam**, Head, Healthcare Technology Innovation Centre (HTIC), Indian Institute of Technology - Madras, Chennai, Tamilnadu

EMINENT RESOURCE PERSONS

- **Dr. Sridhar Ranganathan**, Co-Founder and CEO, Helyxon Healthcare Solutions Private Limited, Chennai, Tamilnadu
- **Dr. V. Prithiviraj**, Former Principal, Pondicherry Engineering College, Chairman, CSR, Govt. of Puducherry, Puducherry.
- **Dr. A. Suresh Kumar**, Senior Scientist, A CSIR Biochemistry & Biotechnology, CSIR-Central Leather Research Institute, Chennai, Tamilnadu
- **Mr. Dhamu Narayanan**, Ex-COO, Take Solutions Ltd. A Life sciences group of companies, Founder G-Care, Chennai, Tamilnadu
- **Dr. A. Srinivasu**, MD, APEIRON Healthcare Technologies Hyderabad, Telangana
- **Dr. K. Prabu**, Associate Professor, Dept. of ECE, NIT-Surathkal, Karnataka
- **Dr. A. Mercy Latha**, Principal Scientist, CSIR-CEERI, Chennai, Tamilnadu
- **Dr. C. Thirunavukkarasu**, Professor, Dept. of Biochemistry & Molecular Biology, School of Life Sciences, Pondicherry Central University, Puducherry.

ORGANIZING COMMITTEE

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Convenor

Dr. A. Selwin Mich Priyadharson

Professor & HoD/ECE

Co-ordinators

Dr. E. D. Kanmani Ruby, Professor/ ECE

Dr. S. Oudaya Coumar, Associate Professor/ ECE

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**Register
on or before
18.11.2023**



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Established by Government of Tamil Nadu in 1984)



ATAL Academy
Sponsored



**Advanced Level
ATAL FDP**

on

“Industry 5.0 for Healthcare 5.0”



Date: 20.11.2023 - 25.11.2023

Organized by

**School of Electrical and
Communication
Department of Electronics &
Communication Engineering
<https://www.veltech.edu.in/>**

About the Institution

Vel Tech offers UG, PG and Ph.D. programmes in Engineering, Management, Law and Media. The Institution has made distinctive progress since the founding in 1997, by adopting the unique and trending educational methodologies. Vel Tech is the first member from India to be part of CDIO, an innovative educational framework for producing the next generation engineers. Vel Tech stands in the Top 100 in a row of seven years in NIRF India Rankings, under Engineering category from 2017 to 2023. The Institution is also placed in the Band "11-50" in Innovation category of National Institutional Ranking Framework (NIRF) Ranking 2023. The institution has also been ranked one of the top institutions by Times Higher Education (THE) World University Rankings every year. The Vel Tech TBI (Technology Business Incubator) under NIDHI by the Government of India is recognized as the Center of Excellence.

About the School

The School of Electrical and Communication at Vel Tech imparts knowledge in Electrical, Electronics and Communication engineering and all other allied areas. The students of the school actively participate in nationally reputed clubs such as robotics club and small device programming club, to enthuse and bring out their skills from them. Many of the faculty members of the school are doctorates from reputed institutions from India and abroad. The students of the School are involved in nationally significant projects namely Small Satellite projects in collaboration with International Industries in France, Germany etc., The department has been consistently producing illustrious engineers of fine calibre and enabling them to occupy the prestigious position in the academics and the industrial fields. The PG programmes are designed and developed in close interaction with Industry partners like C-DAC, FRCI, RAI, NAASCOM, etc.,

About the Department

The inception of the Department of Electronics and Communication Engineering was in the year 1997. Over the time, the department has emerged in diverse dimensions and affords a spellbound ambience for teaching and learning.

The department offers B.Tech. in Electronics and Communication Engineering, M.Tech. in Embedded Systems and Technologies and Ph.D. in ECE Degree Programmes with technology-oriented courses that creates industry ready personnel in the prudent fields of Electronics and Communication Engineering. All the programmes are approved by AICTE and the B.Tech. ECE program is NBA accredited till 2025. The department has well equipped curriculum based laboratories and state of the art facilities for research and development vis-a-vis Texas Instruments powered IoT & Signal Processing laboratory, Xilinx powered System on Chip laboratory, eYantra Embedded systems and Robotics laboratory supported by MHRD and IIT Bombay and France Col laboratory in collaboration with France Col Technology, France. Several initiatives in alliance with International Universities and Core Electronics Industries are also given cardinal importance in the department.

About the FDP

Industry 5.0 is the subsequent stage in the development of manufacturing and production systems that combines cutting-edge technology with human intelligence and skills. The healthcare sector has been developing over time, going through significant changes at every stage. The emerging idea of Industry 5.0 in the healthcare sector, also known as Healthcare 5.0. Healthcare 5.0 makes use of cutting-edge technologies to revolutionize healthcare delivery, improve patient outcomes, and improve the healthcare experience as a whole. Industry 5.0 places a strong emphasis on the integration of humans, machines, and technology in the manufacturing industry. The FDP focus on Healthcare 5.0's potentials and opportunities, including personalized medicine, sophisticated diagnostics, telemedicine, and more patient-centric care, all of which are made possible by the application of cutting-edge technologies like Artificial Intelligence (AI), block chain, big data analytics, and robotics. The main focus of this FDP is to bring together academicians, researchers from various discipline like ECE, Biomedical, Biotech, Computer Science, and Mechanical Engineering and industry personnel. This FDP will serve as a platform to discuss various cutting edge technologies in Industry 5.0 for Healthcare 5.0 and share the research ideas.

How to Apply

Participants can create account and do the registration through ATAL website link given below:

<https://atalacademy.aicte-india.org/login>

Objectives of the FDP

- Provide faculty members with a deep understanding of the core concepts and principles of Industry 5.0 and Healthcare 5.0.
- Familiarize faculty members with emerging Industry 5.0 technologies applicable to healthcare, such as IoT devices, digital twins, and smart manufacturing tools.
- Equip faculty with pedagogical strategies to engage students effectively in understanding the intersection of Industry 5.0 and Healthcare 5.0.
- Encourage faculty to explore interdisciplinary research opportunities related to Industry 5.0 and Healthcare 5.0.

Expected Outcomes

Faculty members will develop a deep understanding of Industry 5.0 and Healthcare 5.0 concepts, principles, and successfully integrate the Industry 5.0 principles into healthcare education curricula. Participants will gain proficiency to contribute to the advancement of healthcare education and develop their practical skills in the context of Industry 5.0 and Healthcare 5.0, and navigating with ethical considerations.

Beneficiaries

FDP is open to all Faculty members of AICTE approved institutions, Research Scholars, Government Organizations and Industries.