ATAL Sponsored

Two Weeks
Advanced Faculty Development Programme
ON
Artificial Intelligence in 6G Communications

(February 10–22, 2025)

Physical Mode

ORGANIZED JOINTLY BY
Department of Electronics & Communication Engineering
AND
Department of Computer Science & Engineering

Sant Longowal Institute of Engineering & Technology (SLIET)
(Deemed to be University under MoE, Govt. of India)
**Longowal, Distt. Sangrur-148106
Punjab (India).**
Website: www.sliet.ac.in

Patron : Prof. Mani Kant Paswan, Director

Co-Patron : Prof. A S Shahi Dean (Academics)

Chairperson(s) : Prof. AjayPal Singh
Prof. Birmohan Singh

Coordinator : Prof. Jagpal Singh Ubhi
Co-coordinator: Dr. Jagdeep Singh

INSTITUTE

Sant Longowal Institute of Engineering & Technology (SLIET), Deemed to be University, has been established and funded by MoE (formerly MHRD), Government of India in 1991, to provide technical education in emerging areas of Engineering and Technology. The institute caters to the technical manpower requirements at various levels by adopting a concept of a modular system in imparting professional education with an emphasis on practical training in the industry. The study programmes include various courses at Integrated Certificate and Diploma, Degree, M.Tech & Ph.D levels in 11 departments of Engineering, Science and Technology. The Institute has come up beautifully in a sprawling green area of 451 acres, with many topographically featured picturesque landscape and presents spectacle of harmony and natural beauty, embedded with all the amenities required for a complete township.

LOCATION AND WEATHER

The Institute is located at Longowal village and is connected by road with Sangrur (18 km), Sunam (18 km), Barnala (30 km), Patiala (80 km), Ludhiana (110 km) and Chandigarh (150 km). The nearest railway stations are Sangrur (18 km), Sunam (18 km), Barnala (30 km) and Dhuri (35 km). The nearest airport is at Chandigarh. The temperature in the month of December is 7^0C to 21^0C.

DEPARTMENT OF ECE and CSE

The departments aim to provide quality education to the youngsters so that they can contribute to the development of the nation. The courses being run by the departments include:

- Integrated Certificate-Diploma Programs
- B.E. (Electronics and Communication Engineering) by ECE department
- B.E. (Computer Science and Engineering) by CSE department
- M.Tech. (Electronics and Communication Engineering) by ECE department
- M.Tech. (VLSI Design) by ECE department
- M.Tech. (Computer Science and Engineering) by CSE department
- Ph.D. Programmes

ABOUT THE ADVANCED FACULTY DEVELOPMENT PROGRAMME:

The Faculty Development Programme (FDP) on AI in 6G Communication is a comprehensive two-week training initiative designed to empower educators, researchers, and industry professionals with the latest advancements in artificial intelligence (AI) applied to 6G communication technology. Organized under the auspices of the AICTE's Training and Learning (ATAL) initiative, this program offers a unique opportunity to delve into the cutting-edge domain of 6G communication and its intersection with AI.

THEME AND OBJECTIVES

The objective of this Advanced Level Faculty Development Program (FDP) is to provide participants with an in-depth understanding of how Artificial Intelligence (AI) can be integrated into 6G communications. The program aims to cover a range of advanced

topics, including deep neural networks, optimization algorithms, security and privacy issues, and AI techniques for enhancing 6G networks. By the end of the program, faculty members will have the knowledge and skills necessary to conduct research and teach the next generation of engineers about the cutting-edge developments in 6G technology. Additionally, the included industrial visits will offer participants hands-on experience and real-life skills in applying these technologies.

RESOURCE PERSONS

Faculty Members of the reputed institutions like IITs, NITs, Central & State Universities/Institutions and the Professionals/Experts of Research Labs (CSIO/ISRO)/Industries etc. will share their expertise in the programme in addition to our own Faculty from SLIET.

ELIGIBILITY:

The faculty members of the AICTE approved institutions, Research Scholars/ Postgraduate scholars working in the Universities/ Institutes/Colleges/Polytechnic and persons from industry/ R&D organizations, nominated by the head of the institutions are eligible to apply. There is no registration fee; however, the registration is mandatory for all the participants.

HOW TO APPLY

Interested participants should compulsorily register for the FDP through following link on or before the last date:
https://atalacademy.aicte-india.org/login

After registration on the above link share your profile and email id to jagdeep@sliet.ac.in

GENERAL INFORMATION

- No Registration Fee, however, Online Registration is Mandatory at ATAL portal.
- Lunch and Refreshment are complementary during the programme.
- Shared accommodation available on prior request.
- Participants shall bear the cost of travelling.
- An assessment test and MCQ will be conducted for all participants.

PROGRAMME HIGHLIGHTS:

- Gain insights into the fundamentals of 6G communication technology and its transformative potential.
- Explore the role of artificial intelligence (AI) in optimizing and enhancing 6G networks for various applications.
- Hands-on sessions and practical demonstrations to reinforce theoretical concepts and foster skill development.
- Engage with industry experts to understand real-world requirements and explore collaboration opportunities.
- Develop leadership skills and strategies for academic excellence, research, and career advancement

MODE OF CONDUCTION

The training program will be conducted in physical mode at SLIET, Longowal.

ADDRESS FOR CORRESPONDENCE

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