

ABOUT THE INSTITUTE



Sant Longowal Institute of Engineering & Technology (SLIET), Deemed to be University, has been established and funded by MoE, 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 programs include various courses at certificate, diploma, B.E. M.Tech. and Ph.D. levels in different branches of engineering and technology. The institute has a sprawling area of 451 acres of land. Surrounded by lush green land, the campus of the institute extends a beautiful and well-developed area with many topographically featured picturesque landscape.

INSTITUTE VISION

SLIET shall strive to act as an international podium for the development and transfer of technical competence in academics through formal and non-formal education, entrepreneurship, and research to meet the changing need of society.

INSTITUTE MISSION

- Non formal, flexible, modular, multipoint entry programmes in engineering and technology and in the areas like rural development, educational planning, information and management sciences.
- Education and training in modern technology areas.
- Promotion of self-development among the students.
- Extension services to industry working population, passed-out students, social organizations and institutions of research and higher learning.
- Close interface with the industry to conduct research on the basis of manpower requirements leading integrated educational planning curriculum development and instructional material preparation in technology and inter-disciplinary areas.
- Promotion of institute-institute linkages for sustainable development of academic and research.

DEPARTMENT OF ECE

The Department of Electronics and Communication Engineering aims to provide quality education to youngsters so that they can contribute to the development of the nation. Promoting Industry involvement in student projects, placement, joint R & D ventures, organizing collaborative programs with premier institutions are the prime objectives of the department. The department has experienced, dedicated, and highly qualified faculty in specialized areas with significant publications in reputed journals. The curriculum reflects dynamic changes relevant to today's marketplace and offers more opportunities for internships and training to the students. The courses being run by the department include:

- Integrated Certificate-Diploma Program DEC
- B.E. (Electronics & Communication Engg.)
- M.Tech. (Electronics & Communication Engg.)
- Ph.D. Programme

DEPARTMENT OF EIE

The department of Electrical and Instrumentation Engineering is poised to impart technical education related to the development of human resources, from the level of skilled workers to the engineering post-graduates. The department has been awarded number of sponsored research projects from various Govt. agencies such as AICTE, MHRD, DST etc. The department caters to the manpower and technical requirements of various sophisticated and household industries. The department envisions holistic development of its students with the help of expert faculty, well equipped laboratories and a healthy learning and working environment. The courses being run by the department include:

- Integrated Certificate-Diploma Program DEE
- Integrated Certificate-Diploma Program DIN
- B.E. (Instrumentation & Control Engg.)
- B.E. (Electrical Engineering)
- M.Tech. (Instrumentation & Control Engg.)
- Ph.D. Programme

ABOUT THE PROGRAM

The AICTE Training And Learning (ATAL) online Faculty Development Programme (FDP) on Recent Trends in Precision Agriculture aims at faculty members/research scholars of engineering institutions and polytechnic approved by AICTE, officials from industry and other Research and Development organizations. The program will also inspire the faculty members and research scholars to generate new ideas in their research area. This Faculty Development programme will impart knowledge on recent trends in precision agriculture.

AICTE Training And Learning (ATAL)

**FACULTY DEVELOPMENT PROGRAMME
(Online)**

**RECENT TRENDS IN
PRECISION AGRICULTURE**

May 31 - 04 June 2021



ORGANIZED BY

DEPARTMENT OF ECE & EIE

Sant Longowal Institute of Engineering & Technology



(Deemed to be University under MoE, Govt. of India)
Longowal, Distt. Sangrur-148106 Punjab (India)

Patron



Prof. Shailendra Jain
Director, SLIET

Co-Patron



Prof. A. S. Arora
Dean (Academics)

Conveners



Prof. Surinder Singh
HOD (ECE)



Prof. S. Marwaha
HOD (EIE)

Coordinators



Dr. Dilip Kumar
Professor (ECE)



Dr. Ashwani Kumar
Associate Professor (EIE)

BACKGROUND



Modern technologies and information tools can be used to maximize agricultural productivity allowing for precision application of agrochemical products. The focus of this FDP is the state-of-the-art precision agricultural technology highlighting remote sensing, aerial spraying, and ground verification technologies. The precision agriculture sector faces several key challenges in India, and we turn our attentions on them in this FDP:

- Interoperability of different standards
- The learning curve
- Connectivity in rural areas
- Making sense from big data in agriculture
- Non-awareness of farm production functions
- Size of individual management zones
- Entrepreneurship in agriculture sector

COURSE CONTENTS

- Introduction to precision Agriculture
- Role of Internet of Things in Agriculture
- Smart Sensors
- Interfacing of different Sensors and Actuators
- Learning techniques.
- Evolutionary computations, and Expert systems.
- Fundamentals of Vision and Need of Precision Agriculture.
- Probability-based systems and fuzzy systems.
- Automation in Agriculture

ELIGIBILITY

This FDP is open for participants from Industry person, Faculty members from AICTE approved Institute, Research Scholars and Undergraduate, Post-graduate students. The number of participants for the course is limited to sixty (60) on a first-come, first-serve basis. The Soft copy of study material, training PPT's will be shared with all the participants.

MODE OF CONDUCTION

The training program will be conducted on a suitable online platform. All the participants who will attend all the lectures will be issued e-certificates after verification of their attendance.

RESOURCE PERSONS

Renowned experts and researchers from premier Institutions (IIT/NITs) and other organizations (IARI/PAU/CDAC/CSIO/ISRO) and industries will deliver expert lectures.

REGISTRATION

The registration will be done online using the link <https://forms.gle/k3xLCe4h9cx83vhAA>

No registration fees for participants from AICTE institutes. Rs. 500/- from faculty members and research scholars from non-AICTE institutes and industry people. For online payment, bank account details will be provided later.

IMPORTANT DATES

- Last date for registration: May 20, 2021
- Notification of selection: May 25, 2021

ADDRESS FOR CORRESPONDENCE

Coordinators:

Dr. Dilip Kumar, Professor (ECE)

Dr. Ashwani Kumar, Associate Professor (EIE)

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