

2nd IEEE INTERNATIONAL CONFERENCE
ON
ELECTRICAL POWER AND ENERGY SYSTEMS
ICEPES-2021

IEEE Conference Record: 52894

IEEE BOMBAY SECTION



December 10-11, 2021

For more information about the conference, keep visiting www.icepes2021-manit.in/



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December 10-11, 2021

Integrated Program

10/12/2021 (Friday)										
10:00-11:00	11:00-12:00	12:00-12.30	12:30-2:00		2:15-3:00	3:15-4:45		5:00-6.30		
Inauguration	Keynote-1	LUNCH	TS1	T1a T1b	Keynote-2	TS2	T2+T3 T4	TS3	T5 T6+ T7+T8+T9	
11/12/2021 (Saturday)										
9:15-10:45	11:00-12:00	12:15-1:45	1:45-2:15	2:15-3:00	3:15-4:45		5:00-6:30			
TS4	T10a T10b	Keynote-3	TS5	T12 T10c+T11	LUNCH	Keynote-4	TS6	T13a T13b	TS7	T13c T14+T15+T16

*TS : TECHNICAL SESSION, T: TRACK NUMBER

Session wise Program with Paper ID

Tech. Session No.	TS1		TS2		TS3		TS4		TS5		TS6		TS7	
	T1a	T1b	T2+T3	T4	T5	T6+T7+T8+T9	T10a	T10b	T12	T10c+T11	T13a	T13b	T13c	T14+T15+T16
Paper ID	29	140	64	65	30	41	11	51	67	141	45	133	167	20
	34	154	90	68	38	49	19	61	103	158	52	135	171	56
	35	156	122	69	43	96	24	82	124	177	63	139	182	86
	50	188	136	128	55	97	25	84	173	197	77	146	186	93
	60	198	164	144	94	115	27	87	180	200	80	147	193	95
	113	212	183	176	142	213	39	105	184	217	102	150	194	106
			203		143	215	191	107		48	120	151	214	134
			210		157						125	160	216	174
										132	166		175	

*TS : TECHNICAL SESSION, T: TRACK NUMBER

DETAILED PROGRAM: DAY-I

Date: 10/12/2021 (Friday)

Time	Event		Mode
10:00- 11:00AM	Inauguration Chief Guest: Shri S.S. Barpanda Director (Market Operations) Power System Operation Corporation Limited (POSOCO) New Delhi		Click here to join the meeting
11:00- 12:00PM	Keynote - I Shri Abhishek Ranjan Additional Vice-President, BSES Rajdhani Power Limited New Delhi		Click here to join the meeting
12:00-12:30	LUNCH		
12:30-2:00 PM	TS1	T1b: Power System Stability, Dynamics & Control	https://meet.google.com/dnb-bbki-aho
2.15-3.00 PM	Keynote - II Dr. Jiwan Kumar Pandit Associate Director, Office of Media & Public Relations ISRO Bengaluru		Click here to join the meeting
3:15-4:45 PM	TS2	T4: Smart Grid and Smart Technologies	https://meet.google.com/dnb-bbki-aho
5:00-6:30 PM	TS3	T6: High Voltage and Insulation Engineering T7: Robotics and Control Systems T8: Sensors and Signal Conditioning T9: Signals and Systems	https://meet.google.com/dnb-bbki-aho

DETAILED PROGRAM: DAY-2

Date: 11/12/2021 (Saturday)

Time	Event		Mode
9:15-10:45 AM	TS4	T10b: <i>Power Electronics, Instrumentation and control in Electrical drives</i>	https://meet.google.com/dnb-bbki-aho
11:00-12:00 PM	<p style="text-align: center;"><u>Keynote – III</u> Prof. M. F. Rahman University of New South Wales, Sydney Australia</p>		Click here to join the meeting
12:15-1:45 PM	TS5	T10c: <i>Power Electronics, Instrumentation and control in Electrical drives</i> T11: <i>Applications of Power Electronics in Power System</i>	https://meet.google.com/dnb-bbki-aho
1:45-2:15 PM	LUNCH		
2:15-3:00 PM	<p style="text-align: center;"><u>Keynote – IV</u> Dr. Katsushi Ikeuchi, Sr. Principal Research Manager Microsoft Corporation Headquarters, Redmond, Washington, USA</p>		Click here to join the meeting
3:15-4:45 PM	TS6	T13b: <i>Applications of Soft Computing Techniques in Electrical Power and Energy Systems</i>	https://meet.google.com/dnb-bbki-aho
5:00-6:30 PM	TS7	T14: <i>Instrumentation & Biomedical Engineering</i> T15: <i>Technology relevant to Covid-19 Pandemic</i> T16: <i>Any other relevant topic</i>	https://meet.google.com/dnb-bbki-aho

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Technical Session: TS1-B Venue: SLIET Longowal 10 th Dec 2021			12.30-2.00 pm
Track 1(T1b): Power System Stability, Dynamics & Control https://meet.google.com/dnb-bbki-aho			Chair: Dr. Manpreet Kaur Co-chair: Dr. Diljinder Singh Rapporteur: Dr. Jaspreet Singh
S.N.	Paper ID	Paper Title	Primary/Registered Author
1	140	SYSTEM FREQUENCY RESPONSE BASED OPTIMUM LOAD SHEDDING FOR INDUSTRIAL POWER SYSTEM	MUKESH KUMAR KIRAR
2	154	COMPARATIVE PERFORMANCE ANALYSIS OF CONVENTIONAL TECHNOLOGIES AND EMERGING TRENDS IN WIND TURBINE GENERATOR	SHWETA MEHROLIYA
3	156	OPTIMAL PMU POSITIONING CONSIDERING THE EFFECT OF ZERO INJECTION BUSES IN ADVANCED GRID MONITORING	MOHD. NAVAIID ANSARI
4	188	EFFECT OF REHEAT TURBINE ON PERFORMANCE OF AGC OF TWO-AREA THERMAL-THERMAL POWER SYSTEM IN DEREGULATED ENVIRONMENT USING PSO OPTIMIZED PID-N CONTROLLER	PRASHANT KHARE, M. RAJU
5	198	VOLTAGE STABILITY ASSESSMENT AND IMPROVEMENT IN POWER SYSTEMS WITH SOLAR PHOTOVOLTAIC PENETRATION	CHANDRAKANT DONDARIYA
6	212	LOAD FREQUENCY CONTROL OF MICROGRID INCLUDING SMALL HYDRO POWER PLANT AND DISTRIBUTED GENERATION WITH EV PENETRATION	M. RAJU



Technical Session: TS2-B			3.15-4.45 pm
Venue: SLIET Longowal 10 th Dec 2021			
Track 4(T4): Smart Grid and Smart Technologies https://meet.google.com/dnb-bbki-aho			Chair: Dr. A.S. Arora Co-Chair: Dr. Charanjiv Gupta Rapporteur: Dr. Asim Ali Khan
S.N.	Paper ID	Paper Title	Primary/Registered Author
1	65	RENEWABLE MICROGRIDS WITH ECONOMIC AND ENVIRONMENTAL BENEFITS: A REVIEW	SUNITA SHUKLA
2	68	A REVIEW OF MODERN VIRTUAL INERTIA CONTROL STRATEGIES FOR MICROGRID IMPLEMENTATION	ANIRUDH PRATAP
3	69	TRANSACTIVE ENERGY MANAGEMENT OF SOLAR INTEGRATED VILLAGES IN INDIA	PRERNA JAIN, TEJASWINI YERUSU
4	128	PLANNING AND CONTROL TECHNIQUES OF SMART GRIDS	SHUBHAJYOTI MONDAL, AASHISH KUMAR BOHRE
5	144	AN OVERVIEW OF CESC'S 315 KWH GRID CONNECTED BATTERY ENERGY STORAGE SYSTEM	RAJIB KUMAR DAS
6	176	EMPLOYING DEMAND RESPONSE IN ENERGY MANAGEMENT OF MICROGRID USING Q LEARNING	AKHILESH CHANDRAKAR



Technical Session: TS3-B Venue: SLIET Longowal 10 th Dec 2021			5.00-6.30 pm
Track 6(T6): High Voltage and Insulation Engineering Track 7(T7): Robotics and Control Systems Track 8(T8): Sensors and Signal Conditioning Track 9(T9): Signals and Systems https://meet.google.com/dnb-bbki-aho			Chair: Dr. J.S. Dhillon Co-Chair: Dr. Pratibha Tyagi Rapporteur: Dr. Barasha Mali
S.N.	Paper ID	Paper Title	Primary/Registered Author
1	41	A REVIEW AND ANALYSIS OF TOPOLOGIES OF LIGHT EMITTING DIODE (LED) DRIVERS	NEHA GUPTA
2	49	3-D PARTICLE TRAJECTORY TRACKING AND CHARACTERIZATION OF ELECTRON BEAM PARAMETERS OF HIGH POWER ELECTRON GUN	VANYA GOEL
3	96	SMARTPHONE BASED CNN-GRU FRAMEWORK FOR HUMAN ACTIVITY RECOGNITION	UPDESH VERMA
4	97	OPTIMIZING THE POSITION OF GRAPHENE OXIDE ABSORBER TO ENHANCE THE RADIATION PATTERN OF ANTENNA ARRAY	SUREKHA RANI
5	115	ASSESSING THE RISK OF RELIABILITY OF THREE PHASE GIS UNDER VARIOUS MULTIPLE ABNORMALITIES	K. NAGA DIVYA, RAFI VEMPALLE
6	213	ON-SITE HEALTH ASSESSMENT OF 765KV BUSHING INSULATION USING VFTD	HARISH KUMAR SHARMA
7	215	MODEL ORDER REDUCTION OF INTERVAL SYSTEMS USING ROUGH APPROXIMATION WITH MID-POINT CONCEPT AND STABILITY EQUATION METHOD	SUNIL KUMAR GAUTAM



Technical Session: TS4-B Venue: SLIET Longowal 11 th Dec 2021			9.15-10.45 am
Track 10b(T10b): Power Electronics, Instrumentation, and control in Electrical drives https://meet.google.com/dnb-bbki-aho			Chair: Dr. Sanjay Marwaha Co-Chair: Dr. M.S. Manna Rapporteur: Dr. Gurmeet Singh Grewal
S.N.	Paper ID	Paper Title	Primary/Registered Author
1	51	DESIGN AND FINITE ELEMENT ANALYSIS OF BRUSHLESS DOUBLY FED RELUCTANCE MACHINE FOR VARIABLE SPEED APPLICATIONS	MUKESH KUMAR
2	61	MITIGATION OF COGGING TORQUE FOR THE OPTIMAL DESIGN OF BLDC MOTOR	RUPAM BANSAL
3	82	A NOVEL 3-PHASE SYMMETRIC/ASYMMETRIC REDUCED DEVICE COUNT MULTILEVEL INVERTER FOR ELECTRIC DRIVE APPLICATIONS	DILIP KUMAR PATEL
4	84	A BIPOLAR MULTILEVEL STRUCTURE FOR DC/AC CONVERSION WITH REDUCED DEVICE COUNT	NIRAJ KUMAR DEWANGAN
5	87	ANALYSIS OF AIR GAP INDUCTANCE AND ITS EFFECTS ON TORQUE PROFILE OF SWITCHED RELUCTANCE MOTOR	AVINASH KUMAR
6	105	AERODYNAMIC DESIGN OF ROTOR OF 1 KW HORIZONTAL AXIS WIND TURBINE	SONALI SHRIVASTAVA
7	107	DSP-BASED PWM AC-DC CONVERTER FOR DC VOLTAGE REGULATION WITH LINEAR CONTROL CHARACTERISTICS	VIKASH KUMAR, DHANANJAY KUMAR



Technical Session: TS5-B Venue: SLIET Longowal 11 th Dec 2021			12.15-1.45 pm
Track 10c(T10c): Power Electronics, Instrumentation and control in Electrical drives Track 11(T11): Applications of Power Electronics in Power System https://meet.google.com/dnb-bbki-aho			Chair: Dr. Shailendra Jain Co-Chair: Dr. Raj Kumar Garg Rapporteur: Mr. Sunil Bansal
S.N.	Paper ID	Paper Title	Primary/Registered Author
1	141	MODEL PREDICTIVE TORQUE CONTROL OF SWITCHED RELUCTANCE MOTOR DRIVE	VIJAYA VARDHAN REDDY P, GANTASALA BHAVANA
2	158	GRID INTEGRATED SOLAR PV SYSTEM WITH COMPARISON BETWEEN FUZZY LOGIC CONTROLLED MPPT AND P&O MPPT	ABHISHEK SRIVASTAVA, AMIT KUMAR ROY
3	177	IMPLEMENTATION AND DESIGN OF NINE LEVEL INVERTER WITH LESSER NUMBER OF SWITCHES USING PWM TECHNIQUE	PREETI PATERIYA
4	197	DIRECT POWER CONTROL SCHEME WITH VOLTAGE MODULATION CONTROL TECHNIQUE FOR A WEAK GRID CONNECTED VOLTAGE SOURCE INVERTERS THROUGH BAND PASS FILTER	MD. KAISAR AZAM ANSARI
5	200	A SURVEY ON GRID COUPLED POWER CONVERSION DEVICES THAT IMPLEMENT VIRTUAL INERTIA	JOSHUA T RYAN
6	217	SINGLE PHASE GRID CONNECTED PV INVERTER BASED ISLANDING	PAMITA JAIN
7	48	ELECTRIC AND HYBRID VEHICLES – A COMPREHENSIVE OVERVIEW	SESHA GOPAL SELVAKUMAR



Technical Session: TS6-B Venue: SLIET Longowal 11 th Dec 2021			3.15-4.45 pm
Track 13b(T13b): Applications of Soft Computing Techniques in Electrical Power and Energy Systems https://meet.google.com/dnb-bbki-aho			Chair: Dr. Anupma Marwaha Co-Chair: Dr. Manmohan Singh Rapporteur: Dr. Mohit Kumar
S.N.	Paper ID	Paper Title	Primary/Registered Author
1	133	EXPERIMENTAL ANALYSIS OF EFFECT OF TUNING PARAMETERS ON THE PERFORMANCE OF DIVERSITY-DRIVEN MULTI-PARENT EVOLUTIONARY ALGORITHM	SUMIKA CHAUHAN
2	135	PERFORMANCE ANALYSIS OF MODEL PREDICTIVE CONTROL FOR CASCADED TANK LEVEL CONTROL SYSTEM	BHAWESH PRASAD
3	139	OPTIMAL GENERATION SCHEDULING OF ELECTRICAL POWER SYSTEM BY USING HYBRID METAHEURISTIC SEARCH TECHNIQUE	ASHUTOSH BHADORIA
4	146	SHORT-RANGE FIXED-HEAD HYDROTHERMAL GENERATION SCHEDULING USING WATER CYCLE ALGORITHM	ASHOK KUMAR
5	147	APPLICATION OF HYBRID ARTIFICIAL ALGAE ALGORITHM FOR DYNAMIC ECONOMIC LOAD DISPATCH PROBLEM	VEENUS KANSAL
6	150	ECONOMIC LOAD DISPATCH USING HCGSA	AVNEET KAUR
7	151	MULTIOBJECTIVE DYNAMIC ECONOMIC DISPATCH AMALGAMATING SOLAR PV AND WIND POWER GENERATION USING HYBRID SCA	GURPREET KAUR
8	160	AN EXTENSIVE STUDY ON OPTIMIZATION AND CONTROL TECHNIQUES FOR POWER QUALITY IMPROVEMENT	RITU VERMA
9	166	ECONOMIC LOAD DISPATCH USING BLACK WIDOW OPTIMIZATION ALGORITHM	KANCHAN PAWANI



Technical Session: TS7-B Venue: SLIET Longowal 11 th Dec 2021			5.00-6.30 pm
Track 14(T14): Instrumentation & Biomedical Engineering Track 15(T15): Technology relevant to Covid-19 Pandemic Track 16(T16): Any other relevant topic https://meet.google.com/dnb-bbki-aho			Chair: Dr. Surita Maini Co-Chair: Dr. Ashwani Kumar Aggarwal Rapporteur: Dr. Barasha Mali
S.N.	Paper ID	Paper Title	Primary/Registered Author
1	20	THE FINANCIAL IMPLICATION OF COVID-19 ON THE INDIAN POWER SECTOR	SUBHADIP BHATTACHARYA
2	56	USE OF PHASE CHANGE MATERIAL (PCM) AND AL2O3 NANOFUIDS IN PYRAMIDAL SOLAR STILL	SRINIVAS DHARAMSOTH
3	86	A HYBRID APPROACH FOR TARGET DRUG DELIVERY WITH MICROWAVE THERMAL ABLATION	SIMRAN KAUR
4	93	BIOMASS AVAILABILITY AND BIOMASS-BASED GENERATING UNITS IN NORTH INDIA: A REVIEW	PRADEEP KUMAR
5	95	RANDOM FOREST FOR HEART DISEASE DETECTION: A CLASSIFICATION APPROACH	SANJAY DHANKA
6	106	GRAPHENE AND ITS NANOCOMPOSITES BASED MICROWAVE NON-INVASIVE PATCH APPLICATORS FOR MAXIMUM POWER LOCALIZATION	ALKA SINGLA
7	134	DETECTION OF PRESSURE POINTS ON THE RESIDUAL LIMB IN TRANSTIBIAL AMPUTATION USING THERMAL IMAGING	BHASKAR PANDEY
8	174	ALZHEINET: A SHALLOW CONVOLUTION NEURAL NETWORK FOR ALZHEIMER DETECTION USING MRI SCANS	SOURAV KUMAR SHUKLA
9	175	SHALLOW CONVOLUTION NEURAL NETWORK FOR BRAIN TUMOR CLASSIFICATION USING T1-WEIGHTED MRI SCANS	SOURAV KUMAR SHUKLA



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

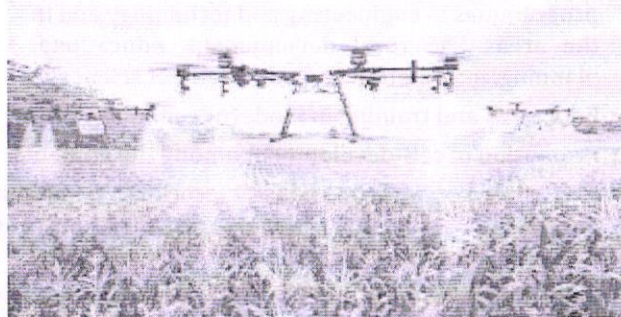


Dr. Dilip Kumar
Professor (ECE)



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)

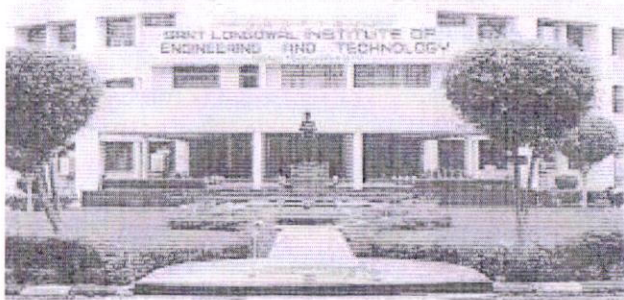
Dr. Ashwani Kumar, Associate Professor (EIE)

Sant Longowal Institute of Engineering and
Technology, Longowal, Sangrur, Punjab-148106

Phone. No. 9417213652, 9530530190

E-mail.: dilip.k78@gmail.com, ashwani.ist@sliet.ac.in

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
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- B.E. (Electrical Engineering)
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- 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.

Two Day Online

Workshop

On

Scientific Writing Using LaTeX



Organized By

Department of Electronics and Communication

Engineering & Department of Electrical and

Instrumentation Engineering

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Dr. Ashwani Aggarwal
Associate Professor
(EIE)

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Engineering Sant Longowal Institute of Engineering and
Technology, Longowal

Contact No: +91-9997623358

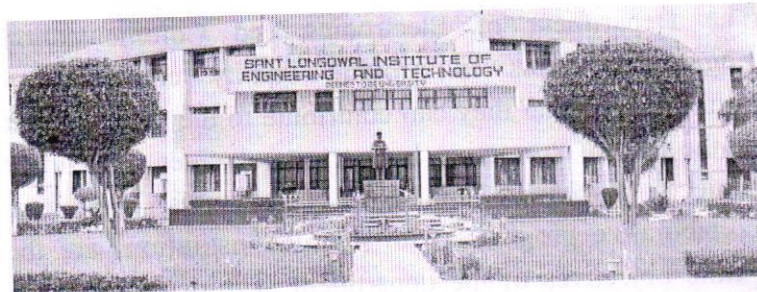
E-Mail: vipulsinghal@sliet.ac.in

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- M.Tech. (Instrumentation & Control Engg.)
- Ph.D. Program

ABOUT THE PROGRAM

In the modern era, the role of typesetting software has emerged significantly in diverse fields of Science and Engineering. The researchers need several typesetting

software for writing scientific documents such as manuscripts, technical reports, books, journals, etc. It becomes cumbersome for the researchers to decide to use one or the other software for preparing the documents. This two days' workshop aims to provide exposure to various typesetting software, that researchers can use for their work. The special focus will be on LaTeX software, which is very flexible, robust, multi-platform compatible, and user-friendly to write scientific documents.

RESOURCE PERSONS

Renowned experts and researchers from premier Institutions (IITs/NITs) and other organizations will deliver expert lectures.

ELIGIBILITY

B.Tech. (Third and final year) students, M.Tech. and Ph.D. scholars, industry persons, and faculty/staff members from colleges and universities.

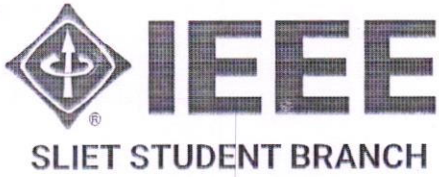
REGISTRATION LINK AND FEE

The registration will be done online using the link <https://forms.gle/9hUAa8a5PtJrUZoo7>

Rs. 200/- from faculty members and Rs. 100/- from research scholars and students. Rs. 500/- from industry persons. Faculty/Staff members from SLIET are exempted from fees. For online payment, bank account details will be provided later.

IMPORTANT DATES

- Last date for registration: February 25, 2022
- Notification of selection: February 28, 2022



May 19, 2021

Subject - One Week STC on Enhancement of Computer Skill for office staff

IEEE Student Branch at SLIET, Longowal invites applications from interested office staff members for attending one week short term course on Enhancement of Computer Skill.

Name of Instructor : Ashwani Kumar Aggarwal, Branch Counsellor
Medium of Instruction : Easy English
Period : 24-30 May 2021
Timings : 7 - 8 AM
Registration Link : <https://forms.gle/pu86GxcrsUmt3uJt9>
Lesson Link : <https://meet.google.com/vqz-yxnj-hrw>

The schedule of the STC is given below.

Date	Day	Topic
24 May 2021	Monday	Fundamentals of Computer and Information Technology
25 May 2021	Tuesday	Microsoft Word
26 May 2021	Wednesday	Microsoft Excel
27 May 2021	Thursday	Microsoft Powerpoint
28 May 2021	Friday	Printing, scanning, drafting emails & data presentation tools
29 May 2021	Saturday	Google Drive, Google Docs, Google Sheets, Google Slides
30 May 2021	Sunday	Quiz, Discussion and Feedback

A certificate of appreciation will be given by the IEEE Student Branch to those securing atleast 80% marks in the quiz.

Best regards,

Ashwani Kumar Aggarwal
Branch Counsellor



AICTE Training And
Learning (ATAL)



FDP | FACULTY
DEVELOPMENT
PROGRAMME
(Online)

SIGNAL PROCESSING AND MACHINE LEARNING TECHNIQUES: EMERGING TRENDS

September. 06-10, 2021

ORGANIZED BY
DEPARTMENT OF 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



Convener
Prof. Surita Maini
HOD(EIE)



Asim Ali Khan

Coordinators



Ajad Shatru Arora

BACKGROUND

DSP is arguably at the heart of the "digital revolution" that, in the space of just a few decades. The signal processing techniques are used for representation and enhancement of signals, compression of signals, extraction of features from the signals and different processing of the signals. The signal processing techniques have a number of applications in different fields like biomedical, satellite imagery etc. The machine learning based methods make the system to learn from the data. It finds various applications in image recognition, speech Recognition, pattern recognition etc. The signal processing along with the machine learning becomes a potent force in many engineering and real world applications.

The main purpose of this short term course is to present various signal processing and machine learning techniques, and their different applications.

COURSE CONTENTS

- Basic Signal Analysis Techniques
- Advanced Signal Processing Techniques
- Time, Frequency and Time-Frequency based Analysis
- Machine Learning Methods Learning techniques.
- Applications of Signal Processing and Machine Learning
- Introduction to Neural Networks and Deep Learning
- Ensemble Approaches for Classification

AAK

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, PPT's will be provided.

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 @ ATAL website using the below link:

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

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

IMPORTANT DATES

Last date for registration:
AUGUST 25, 2021

Notification of selection:
SEPTEMBER 01, 2021

DEPARTMENT OF EIE

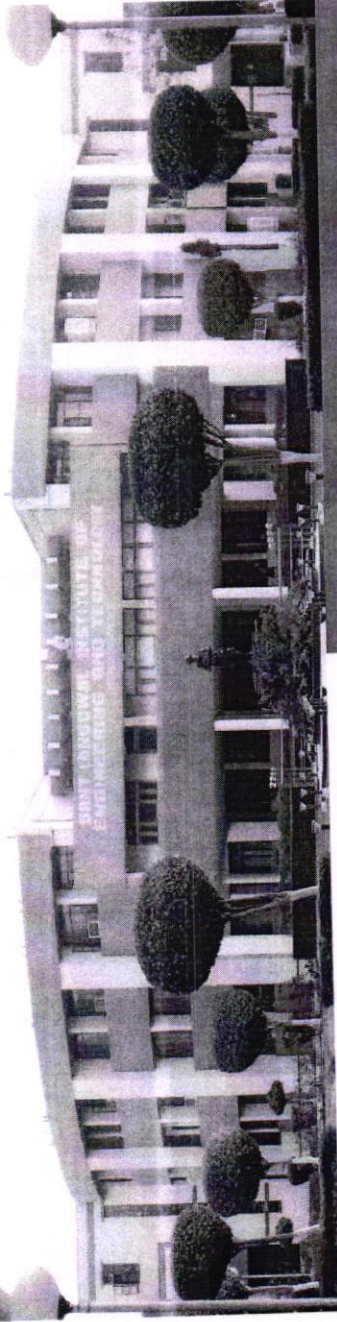
The department of Electrical and Instrumentation Engineering (EIE) is poised to impart technical education related to the development of human resources, from the level of skilled workers to the engineering post graduates. The department has been awarded number of sponsored research projects from various 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 Signal Processing and Machine Learning Techniques: Emerging Trends 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 Signal Processing and Machine Learning Techniques.



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.

ABOUT THE INSTITUTE

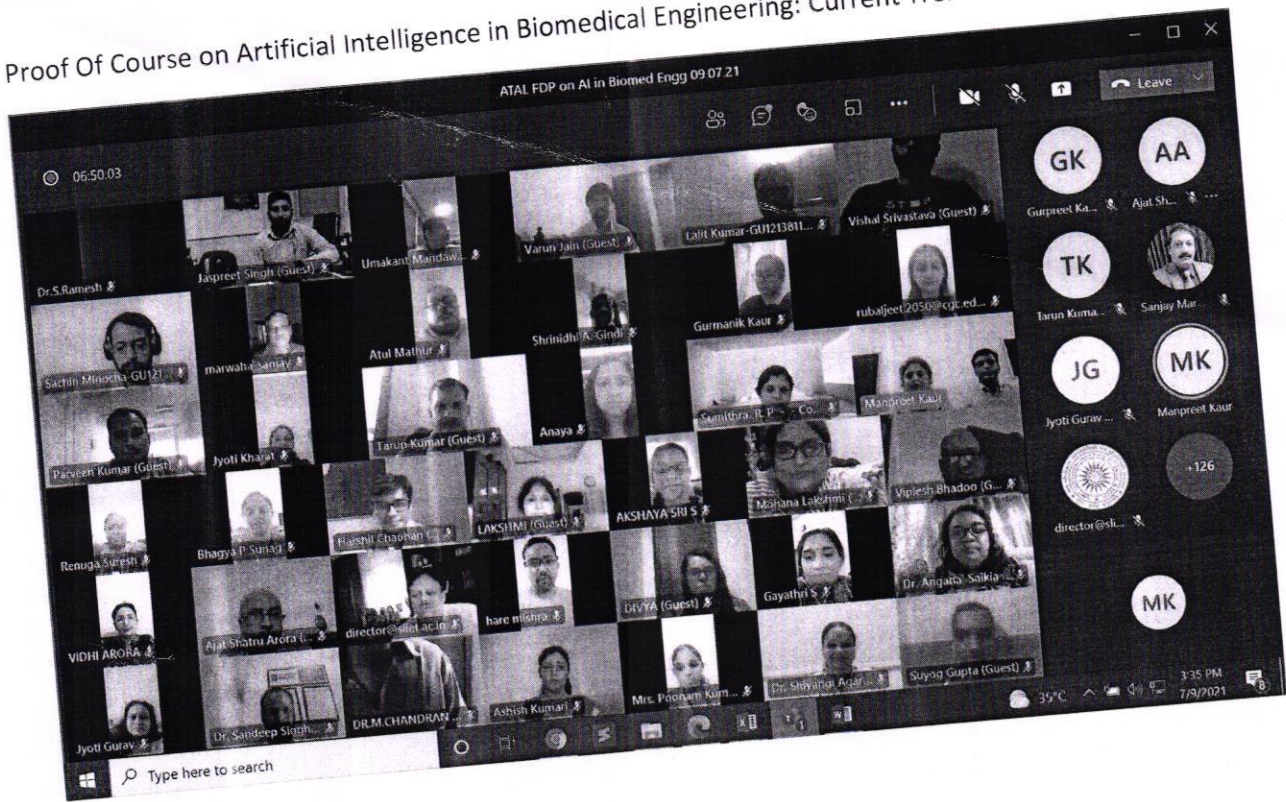
Sant Longowal Institute of Engineering & Technology (SLIET), Deemed to be University, has been established and funded by MoE, Government of India in 1991, to provide technical education in emerging areas of Engineering and Technology. The institute caters to the technical manpower requirements at various 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. Institute is NAAC accredited and NIRF ranked. Further all the UG programs are NBA accredited. 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 needs of society.

Name	Email	Phone	status	applicator	Institute	N Designatio	Specialisat	Experience	Address	District	Pincode	State
Mr. Saurat saurabh.e	sa	70154799	Approved	161493762	INURTURE	Assistant P	CSE	19 Year(s)	1136/6	Ambala	134001	HARYANA
Mr. Mahes technosav		95586556	Approved	161493762	A. D. PATEI	Assistant P	AUTOMOB	11 Year(s)	15/A, VISH	Anand	388001	GUJARAT
Mr. MEER/ meervalic		94914244	Approved	161493762	RISE Krishr	Assistant P	ECE	10	mahendra	Prakasam	523272	ANDHRA PRADESH
Mr. KAGAR ksb.techni		91826994	Approved	161493762	National In	Research S	ECE	3	S C Colony	Vizianagar	535578	ANDHRA PRADESH
Mr. Aditya adityanaw		94251878	Approved	161493762	Indian Inst	Research S	Electronics	7	112 Gokul	Indore	452016	MADHYA PRADESH
Mrs. Jaspri jaspree		80066572	Approved	161493762	Online Tea	M.Tech in	Electronics	7 Year(s)	8 Yamunapu	Lucknow	226301	UTTAR PRADESH
Miss Visha vishakhak		94297018	Approved	161493762	Parul Instit	Assistant P	Biomedica	4 Year(s)	5 306, Behin	Valsad	396050	GUJARAT
Mrs. Bushr abdulla.bu		94964206	Approved	161493762	Sree Naray	Assistant P	ECE	1 Year(s)	0 Sabira Mai	Kannur	670502	KERALA
Mrs. VIJAY vjviaya7@e		93469374	Approved	161493762	Visakha In	Assistant P	ECE	6 Year(s)	4 Visakhapat	Visakhapat	500051	ANDHRA PRADESH
Dr. RAKHEI rpanigrahi		94380754	Approved	161493762	Parala Mal	Assistant P	Control sys	7 Year(s)	7 Electrical	C Ganjam	760013	ODISHA
Mr. Sumit sumitmahi		99968497	Approved	161493762	Jai Parkash	Assistant P	Software E	12 Year(s)	Jai Parkash	Yamunana	135133	HARYANA
Mrs. Madh myna.mad		99492235	Approved	161493762	Nnresgi	Assistant P	SSP	11 Year(s)	Ramanthaj	Medchal	500013	TELANGANA
Mr. Ankit ankitvijay		78777095	Approved	161493762	Swami Kes	Associate I	Machine L	9 Year(s)	9 B-108, Var	Jaipur	302019	RAJASTHAN
Mrs. Roja I sgvveesh		94805159	Approved	161493762	RV College	Associate I	Radar MIN	17 Year(s)	Mysore Ro	Bangalore	560059	KARNATAKA
Mr. Nitin I nlnokhand		99604508	Approved	161493762	Pravara Ru	Assistant P	Instrument	14 Year(s)	Pravara Ru	Ahmadnag	413736	MAHARASHTRA
Dr. RANJIT ranjit.pani		70014333	Approved	161493762	Sikkim Mai	Assistant P	Network S	10	Assistant P	East Distric	737136	SIKKIM
Mrs. MOU moumita.p		70014333	Approved	161493762	Sikkim Mai	Assistant P	Data Mini	4 Year(s)	8 Assistant P	East Distric	737136	SIKKIM
Mr. Yasher yashender		83509592	Approved	161493762	Maharaja I	Research S	Signal Proc	0 Year(s)	0 Vill:-Yakkar	Hamirpur	177024	HIMACHAL PRADESH
Mr. Pankaj er.pankaj0		86075009	Approved	161493762	PIET Samal	Assistant P	Electronics	7	H.NO. 856,	Jind	126102	HARYANA
Mrs. Ruchi engg.ruchi		95826157	Approved	161493762	Sant Longr	Research S	Biomedica	6	Type-I (Ne	Sangrur	148106	PUNJAB
Mr. GULSH kumarguls		95826157	Approved	161493762	Sant Longr	Research S	Biomedica	8	Type-I (Ne	Sangrur	148106	PUNJAB
Mrs. Rinka rinkaljinda		98889864	Approved	161493762	Pharwahi	Teacher	Teacher	4 Year(s)	5 Jindal MEC	Barnala	148101	PUNJAB
Mrs. Rupin rupman20		75898613	Approved	161493762	Sliet	Assistant P	Science	3 Year(s)	2 BNL	Barnala	148101	PUNJAB
Dr. ASHISH ashishdpr		89682866	Approved	161493762	Chandigarl	Professor	electrical e	18	house no 7	Hoshiarpur	146001	PUNJAB
Mr. Birinde birinder.ee		98156543	Approved	161493762	Chandigarl	Assistant P	Microelect	10	House No.	Sahibzada	160062	PUNJAB
Mrs. Prabh Prabhjyotk		94174350	Approved	161493762	Gssss Pharv	Lecturer	Maths	24 Year(s)	BXI/1366,	Barnala	148101	PUNJAB
Mrs. Anita; anitagupta		97817008	Approved	161493762	Gssss Pharv	Lecturer	Chemistry	29 Year(s)	K. C Road,	Barnala	148101	PUNJAB
Mr. Pavel I pavel_ban		98148316	Approved	161493762	Pharwahi	Teacher	Engineerin	20 Year(s)	B-XI/2104,	Barnala	148101	PUNJAB
Mr. Pavel I javantikab		88474124	Approved	161493762	pharwahi	vocational	engineerin	20 Year(s)	Ram Bagh	Barnala	148101	PUNJAB
Dr. Harpre kaurharpr		84270098	Approved	161493762	Gurunanak	Associate I	Image Proc	11 Year(s)	Faculty Qu	Rangaredd	501506	TELANGANA
Mrs. Rajde Gurdeeps		94646313	Approved	161493762	Gssss Pharv	Computer	Computer	16 Year(s)	Vpo Pharw	Barnala	148101	PUNJAB
Mr. Abdul ansaritech		90453520	Approved	161493762	DTU	Research S	Mechanica	4	25 Futa Ro	Aligarh	202001	UTTAR PRADESH
Dr. Aniket aniket.kur		74170171	Approved	161493762	Shobhit In	Associate I	VLSI	8 Year(s)	6 Modipurar	Meerut	250110	UTTAR PRADESH
Miss Ramy ramyashre		94818260	Approved	161493762	SMVITM,B	Assistant P	Computer	4	sridurga,kc	Udupi	574118	KARNATAKA
Dr. Baldee baldeeps		95014116	Approved	161493762	pharwahi	teacher	science	20 Year(s)	vill. sekha	Barnala	148025	PUNJAB
Dr. Rajat K rajatkumar		89389044	Approved	161493762	Vardhamai	Assistant P	Power Qu	0 Year(s)	0 EEE Depart	Hyderabac	501218	TELANGANA
Mrs. Kiruth kkiruthika		63802543	Approved	161493762	Hindusthai	Assistant P	Biomedica	1 Year(s)	5 Palanisam	Coimbat	641050	KARNATAKA
Mrs. Pushp pushpaglal		81470190	Approved	161493762	SJB institut	Assistant P	VLSI and ei	13	bangalore	Bangalore	560091	KARNATAKA
Dr. Debiru debirupa.h		86000144	Approved	161493762	Ajeenkya C	Associate I	Electrical E	14 Year(s)	Pune Pune	Pune	411015	MAHARASHTRA
Mrs. Seem seemarani		98552391	Approved	161493762	Thikriwala	Teacher	MSC Math	11 Year(s)	Ram bagh	Barnala	148101	PUNJAB
Mrs. PAVIT ppavithara		75021144	Approved	161493762	Kongu Eng	Assistant P	VLSI Desig	0	3/275, VAI	Tiruppur	641605	TAMIL NADU
Mrs. Arpit arpitajohri		84473455	Approved	161493762	ABES Engg	Assistant P	Optimisati	16 Year(s)	Tower B16	Gautam Bt	201306	UTTAR PRADESH
Mr. Mudrit mudrit123		99994538	Approved	161493762	ABES Engg	Assistant P	Signal Proc	19 Year(s)	Flat No. 10	Gautam Bt	201306	UTTAR PRADESH
Mrs. atifa I anilasantan		95013290	Approved	161493762	GSG MALE	TEACHER	computer	14 Year(s)	B-4/1128,	Sangrur	148023	PUNJAB
Mrs. Shwe shwethakr		98865871	Approved	161493762	Bapuji Inst	Assistant P	Digital con	10	Asst. prof	Davanager	577004	KARNATAKA
Mrs. Sahiti sahitihred		90007528	Approved	161493762	TKRCET	Assistant P	DECS	5	Hyderabac	Hyderabac	500059	TELANGANA
Mrs. G.Ani anithachov		97053663	Approved	161493762	TKR Colleg	Associate I	Electronics	11 Year(s)	Vanasthali	Rangaredd	500070	TELANGANA
Mr. JATINI jatin98765		98765915	Approved	161493762	gssss pharw	Assistant P	computer	16 Year(s)	H.NO 184,	Barnala	148101	PUNJAB
Mrs. PUSH pushpaaw		97397423	Approved	161493762	University	Associate I	Instrument	18	2035/141,	Davanager	577004	KARNATAKA
Mr. Avuda avudaisac		95245337	Approved	161493762	PSN Engine	Assistant P	Machine L	1 Year(s)	1 325 Thiruv	Tirunelveli	627756	TAMIL NADU
Mr. RUDDR rkrudresh		98863918	Approved	161493762	Governme	Lecturer	Electronics	10	Lecturer, C	Bellary	583132	KARNATAKA
Mr. Achint Achintchu		98263773	Approved	161493762	Mittal Gro	Associate I	ECE	18 Year(s)	213,9A	Bhopal	462024	MADHYA PRADESH
Mr. Rakesh kumarake		82191325	Approved	161493762	Maharaja I	Research S	Image Proc	0 Year(s)	0 VILLAGE KI	Mandi	175015	HIMACHAL PRADESH
Mr. PUNEE puneeth.s		91648120	Approved	161493762	K S School	Assistant P	Digital con	9 Year(s)	9 Co M Erap	Tumkur	572132	KARNATAKA
Mr. Inderji indersaini		83606841	Approved	161493762	GNA Unive	Assistant P	Digital ima	10	Vill. Sakral	Hoshiarpur	144212	PUNJAB
Dr. Anjana anjana@rj		94257550	Approved	161493762	Rustamji Ir	Associate I	Biomedica	25	RJIT, BSF	A Gwalior	475005	MADHYA PRADESH
Mrs. Divya divyakprav		08041676	Approved	161493762	MVJCE	Assistant P	ECE	12 Year(s)	Whitefield	Bangalore	560048	KARNATAKA
Mr. MANJI manjunath		99649206	Approved	161493762	Visvesvara	Research S	Photonics	3	S/O NAGAI	Tumkur	561202	KARNATAKA
Mrs. jaimy jaimyjame		90741018	Approved	161493762	Adi Shank	Assistant P	vlsi	1	edappulav	Ernakulam	683543	KERALA
Dr. A. Laks a.v.lakshm		96775642	Approved	161493762	Srinivasa Ir	Professor	Cyber Secu	18 Year(s)	169, Munic	Vellore	632503	TAMIL NADU
Mrs. Jharn jharna.agr		86304383	Approved	161493762	GLA Unive	Research S	M.tech in	06 Year(s)	Administra	Mathura	281406	UTTAR PRADESH
Dr. ANUJA anuja1012		75976619	Approved	161493762	GLA UNIVE	Assistant P	IMAGE PR	7 Year(s)	1 529/18 IN	Lucknow	226016	UTTAR PRADESH
Dr. C.SELVI selvi.c.ece		97880783	Approved	161493762	Muthayam	Associate I	ECE	16 Year(s)	W/O A.SH/	Namakkal	637407	TAMIL NADU
Dr. Satish s sankaesr		94227118	Approved	161493762	Dr.G.Y.Patl	Assistant P	Data Scien	15 Year(s)	MGM CAM	Aurangaba	431003	MAHARASHTRA
Mrs. A NIV nivethaa.s		94429565	Approved	161493762	Muthayam	Assistant P	Electronics	5 Year(s)	3 East street	Namakkal	637405	TAMIL NADU
Dr. SURESH sureshm@		94486575	Approved	161493762	SSIT	Professor	Signal proc	27 Year(s)	Professor,	Tumkur	572105	KARNATAKA
Mr. SOUR/ chandra.sc		94774215	Approved	161493762	CALCUTTA	Assistant P	CSE	14 Year(s)	A/6 1NO	A North Twe	700109	WEST BENGAL
Mr. SURJEI mgmcf.gs		80876726	Approved	161493762	MGM COLI	Professor	FOOD PRO	3	H. No. 117	Parbhani	431401	MAHARASHTRA
Dr. Gouri I morankarg		88881358	Approved	161493762	Shri Ramd	Assistant P	Artificial In	17 Year(s)	602 maple	Nagpur	440013	MAHARASHTRA
Mrs. Priya priyaaith9		80784642	Approved	161493762	Kathir Coli	Assistant P	Commerce	1 Year(s)	1 Site no 5/1	Coimbat	641015	TAMIL NADU
Mr. Shiv R: srm@ipu.a		92668832	Approved	161493762	USICT, GG	Assistant P	ECE	7 Year(s)	1 Dtl -505,	U Delhi	110078	DELHI
Mr. Vijay R vijaybhosa		93235714	Approved	161493762	MGM's Co	Assistant P	Computer	26 Year(s)	Plot No 20	Raigarh	410206	MAHARASHTRA
Mr. Shrava shravanna		90980718	Approved	161493762	Indore Inst	Assistant P	Electronics	10	208 nidhi	a Indore	452006	MADHYA PRADESH
Mr. Bhaskr bhaskarpn		94527905	Approved	161493762	Sant Longr	Research S	Instrument	0	418/72H	S. Allahabad	211006	UTTAR PRADESH
Dr. Amol I morankar		99220766	Approved	161493762	S. B Jain In	Associate I	VLSI	10	602 maple	Nagpur	441501	MAHARASHTRA
Mr. Shrani shranishk		97762307	Approved	161493762	IIT Guwah	Research S	Mechanica	0 Year(s)	0 VIM 74,	Ph Khordha	751021	ODISHA
Mr. Sagar I gaikwadaj		96573674	Approved	161493762	Aditya Pol	Lecturer	EnTc	3	jijamata	ch Bid	431122	MAHARASHTRA
Dr. E.Sathi: sathishesw		63744841	Approved	161493762	VIT Chennai	Assistant P	Electronics	8 Year(s)	2 Arachalur,	Chennai	600127	TAMIL NADU
Miss Nand nandanath		94007073	Approved	161493762	Mar Kuriak	Assistant P	BCA	1 Year(s)	2 Olikkakal	Kottayam	686665	KERALA
Miss Shivi Shivi.varsh		70177967	Approved	161493762	Sobhasarie	Assistant P	Electrical E	5 Year(s)	5 Moh. Thak	Budaun	243720	UTTAR PRADESH
Mr Kunder Kundan.ku		76782341	Approved	161493762	IIT SQUARE	DIRECTOR	Physics	4 Year(s)	1 E-79,Secto	Delhi	110078	DELHI
Mr. Aditya adityachan		82082516	Approved	161493762	G. H. Raiso	No	No	No Year(s)	Hanuman I	Nagpur	440028	MAHARASHTRA

Proof Of Course on Artificial Intelligence in Biomedical Engineering: Current Trends and Future



Certificate No. ATAL/2021/1631532954



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training And Learning (ATAL) Academy



Certificate of Appreciation

This is certified that Dr. Manpreet Kaur, Professor of Sant Longowal Institute of Engineering and Technology, Longowal, PUNJAB has successfully coordinated ATAL Online Faculty Development Programme on "Artificial intelligence in biomedical engineering: Current trends and future" from 05/07/2021 to 09/07/2021.

Adviser-I, ATAL Academy

INSTITUTE



Sant Longowal Institute of Engineering and 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 surrounded by lush green land.

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.

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-graduate and Ph.D. level. 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 focus of the department is to discover the true potential of students by creating a challenging yet interesting curriculum. 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 PROGRAMME

The course aims at making the participants acquainted with the use of artificial intelligence in biomedical engineering.

The program will also inspire the faculty members and research scholars to generate/ share the new ideas in these research areas.

BACKGROUND

Artificial intelligence is having a huge impact on various fields of life as the expert systems are widely used to solve complex problems in various areas. One such area is medicine. Modern medical data provides an increasing number of features derived from different types of analysis, including artificial intelligence. These features are most often used for a variety of analysis including fuzzy logic, evolutionary calculations, neural networks, or artificial life. Proper data processing, appropriate selection of features and artificial intelligence method can support medical diagnostics. This area has been in recent years the subject of many research papers and research grants. Consequently, this course is devoted to the subject of artificial intelligence, in its broadest sense, in biomedical engineering with particular emphasis on medical imaging, records interpretation, and other time-series data. We hope this course will be a valuable supplement to the knowledge of new artificial intelligence methods and its applications in new areas of biomedical field.

RESOURCE PERSONS

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

AICTE Sponsored
AICTE Training and Learning (ATAL)
(Online Mode)

Faculty Development Programme
ON

ARTIFICIAL INTELLIGENCE IN BIOMEDICAL ENGINEERING: CURRENT TRENDS AND FUTURE

(July 5-9, 2021)



ORGANIZED BY

Department of Electrical and Instrumentation Engg.

**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
Co-Patron : Prof. A. S. Arora, Dean (Acad.)
Convener : Prof. Sanjay Marwaha
Coordinators : Prof. Manpreet Kaur
Dr. Ashwani Kumar Aggarwal

ABOUT AICTE-ATAL FDP

The objectives of AICTE Training and Learning (ATAL) Academy are: To set up an Academy which will plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training. To provide a variety of opportunities for training and exchange of experiences, such as workshops, Orientations, learning communities, peer mentoring and other faculty development programmes. To support policy makers for incorporating training as per requirements. The Faculty Development Programme (FDP) intends to provide financial assistance to facilitate up-gradation of knowledge, skill and intends to provide opportunities for induction training to teachers

ELIGIBILITY

This interdisciplinary course is open for participants from Industry, Faculty members and Research Scholars from AICTE approved Institutes/ Universities.

COURSE CONTENTS

- Biomedical images and signal processing.
- Neural network algorithms and its types.
- Supervised, semi-supervised and unsupervised learning techniques.
- Evolutionary computations, Genetic algorithms, and Expert systems.

- Fundamentals of Vision and NLP for biomedical tasks.
- Analysis of biomedical time series signals.
- Probability-based systems and fuzzy systems.
- UCL, NIH, and other machine learning biomedical repositories.

MODE OF CONDUCTION

The training program will be conducted on a suitable online platform. The soft copy of study material, PPT's will be shared with the participants. Certificates will be given to the participants as per AICTE ATAL Academy rules.

REGISTRATION

No registration fees for faculty from AICTE institutes.

IMPORTANT DATES

Last date for registration: June 28, 2021

Notification of selection: June 30, 2021

APPLY FOR COURSE

Registration is required for participating in this course. Applicants can fill the registration form only in online mode available at

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

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AICTE Training And Learning (ATAL) Academy Programme
FORMAT FOR STATEMENT OF EXPENDITURE

AICTE File No. (Sanction letter file No.): F No 01/AICTE/ATAL-HQ/2021-2022/1614834480

Title of the Programme: Artificial Intelligence in Biomedical Engineering: Current Trends and Future

Application No.: 1614834480

Name of the Coordinator: Dr. Manpreet Kaur

Sanction No. and Date	Grant Sanctioned	Details of expenditure incurred item wise	Amount Rs. (in each head)	No. of Participants	Duration of the Programme (with dates)
F No 01/AICTE/ATAL-HQ/2021-2022/1614834480 13.05.21	Rs. 93,000/-	1. Honorarium to Coordinator Rs 2000/- per day * 3 days 2. Honorarium to Computer operator 3. Honorarium for experts (Rs 5000 per session for total 14 sessions) 4. Provision for payment to Lab Attendant 5. Miscellaneous charges (Party Expenses not covered above)	Rs. 10,000/- Rs. 2,000/- Rs. 65,000/- Nil Nil	Participant Applied: 200 Participants Attended the course: 161 Participants Appeared in Test: 158	05.07.21 to 09.07.21
Total			Rs 77,000/-		
Grant Received			Rs. 93,000/-		
Balance to be Received			Rs. 16,000/- surrendered to AICTE through RIGS vide UTR No. CBINH21229048382 dated 17.08.21.		

(Sh. Jawala Singh)
 JDR(A&A)

Manpreet Kaur
 18/8/2021
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(Dr. A.S. Dhaliwal)
 Dean (R&C)

(Dr. Shailendra Jain)
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Dr. M.P.K.

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