Venue

The Venue of the conference is Sant Longowal Institute of Engineering and Technology, Longowal which is by road about 130 km from Chandigarh "The City Beautiful": 205 km from Home of the glorious Golden Temple. the Iconic city of Amritsar, 260 km from Shimla "The Queen of the Hills" 270 km from New Delhi "The National capital of India", 350 km from Dharamshala, a true global village and the second winter capital of Himachal Pradesh, 410 km from Manali, a gift of the Himalayas to the world, 470 km from Agra, "The city of Taj Mahal" and 480 km from Jajpur, "The Pink City".

Submission of manuscript

Authors are requested to submit full length paper online through EasyChair Link

AME-2020

https://easychair.org/conferences/?conf=ame20200

AISCT-2020

https://easychair.org/conferences/?conf=aisct2020

ACFBT-2020

https://easychair.org/conferences/?conf=acfbt2020

For more details kindly visit website: www.slietcon.org While submitting manuscript format should be followed. Manuscript must be submitted in PDF format.

Organising Committee

Chief Patron

Mr. Jagdish Rai Singal, Chairman, BoM SLIET

Patrons

Prof. Shailendra Kumar Jain, Director, SLIET Prof. Shvam Lal Soni, Director, NIT, Uttrakhand

Conference Chair

Prof. Ajat Shatru Arora, Dean (Acad.), SLIET

Organizing Secretaries AISCT-2020

AMF-2020

Dr. Rajesh Kumar, Prof. ME Dr. Pardeen Gunta, Prof. MF

Dr. Sanjay Marwaha, Prof., EIE Dr. Anupma Marwaha, Prof., FCF Dr. Vinod Kumar Yadav, Asst. Prof., ME, NITUK Dr. Major Singh, Prof., CSE

Dr Krishan Kumar Asst Prof CSF NITUK **Joint Organizing Secretaries**

Dr. Kulwant Singh, Prof., ME Dr. Ravinder Kumar Saxena, Prof., ME Dr. Amrik Singh, Prof., ME Dr. Rai Kumar Yadav, Prof., ME Er. Anil Kumar Singla, Assoc. Prof., ME

Dr. Pradeep Kumar Singh, Prof. ME Dr. Amandeep Singh Shahi, Prof. ME Dr. Shankar Singh, Prof. MF Dr. Jagtar Singh, Prof., ME Dr. Indraj Singh, Assoc. Prof., ME Dr. Sunil Kumar, Asst. Prof., ME

Dr. Jaspal Singh Gill, Assoc. Prof., ME Dr. Harish Kumar Arva, Asst. Prof., ME Dr. Vivek Kumar, Asst. Prof., ME Er. Surinder Kumar, Asst. Prof., ME Er. Sumit Kumar, Asst. Prof., ME Er. Anui Bansal, Asst. Prof., ME Er. Jonny Singla, Asst. Prof., ME

Dr. Ashwani Kr. Apparwal, Assoc. Prof., FIF Dr. Gulshan Kumar Jawa, Assoc. Prof., CHF Dr. Birmohan Singh, Prof., CSE Dr. Kamlesh Prasad, Prof., FET Dr Amar Partan Singh Prof ECE Dr Sandeen Mohan Ahuia Prof CHE Dr. Manpreet Kaur Prof., EIE Dr. Vikas Nanda, Prof., FET

Dr. Manoj Sachan, Prof., CSE Dr. Ajay Pal Singh, Prof., ECE Coordinators

Dr. Pratibha Tyagi, Assoc. Prof., EIE Dr. Damanpreet Singh, Prof., CSE Dr. Raj Kumar Garg, Asst. Prof., EIE Dr. Guriinder Kaur, Assoc. Prof., CSF Dr Manminder Singh Asst Prof CSF Dr. Pankaj K. Pal, ECE, NITUK Dr Prakash Diwedi FF NITLIK Dr. Maroti Deshmukh, CSF, NITUR Fr. Vivek Kumar, Asst. Prof., FCF Er. Kuldeep, Singh, Asst. Prof., ECE Er. Charanjeev Gupta, Assoc. Prof., EIE Er. Sarbjit Singh, Asst. Prof., ECE

Co-coordinators

Dr. Vinod Kumar Verma, Asst. Prof., CSE Er, Gurmeet S, Grewal, Assoc. Prof., EIE Er, Vipul Kumar, Asst. Prof., ECE Er. Sunil Kumar, Asst. Prof., EIE Er. Jaspal Singh, Asst. Prof., CSE

Dr. Sukhcharn Singh, Prof., FET Dr. Navdeep Jindal, Assoc, Prof., FET Dr. Akhouri Sanjay Kr Sinha, Assoc. Prof., CHE Dr. Nikhil Parkash Saxena, Asst. Prof., CHE Dr. Amit Rai. Asst. Prof., CHF Er, Vinod Kumar Meena, Asst. Prof., CHE Er. Subita Bhagat, Asst. Prof., CHE

ΔCFRT-2020

Dr. Parmjit Singh Panesar, Prof. FET

Dr. Avinash Thakur, Prof., CHF

Dr. Charaniiv Singh, Prof., FET

Dr. Charanjit Singh Riar, Prof., FET

Dr. Himadri Roy Ghatak Prof CHE

Dr. Kamlesh Kumari, Prof., CHE

Dr Pradvijman Kijmar Prof. FET

Dr. Pushpa Jha. Prof., CHE

Important dates

Extended abstract submission : April 15, 2020 Acceptance notification of extended abstract : April 20, 2020 Submission of full paper : May 15, 2020 Revised paper submission : May 30, 2020

Registration Fee	Indian (in Rs.)		International (in USD)	
Registration Fee	Early Bird	Regular	Early Bird	Regular
Category	Before 30/06/2020	After 30/06/2020	Before 30/06/2019	After 30/06/2020
Student/Post Doc.	3000.00	3500.00	125.00	150.00
Academic/Non-profit Org.	4500.00	5000.00	200.00	225.00
Industry	8500.00	10000.00	275.00	325.00
Accompanying Person	1500.00	2000.00	75.00	100.00

Maximum one paper could be contributed on a single registration. However, authors can register for maximum one additional paper by paving extra 50% of registration fee. The registration fee includes registration kit, copy of conference proceedings, breakfasts, lunches, dinners and session tea along with transportation 'pick and drop (for foreign delegates) from Chandigarh airport and to and fro from the local place of stay to the venue of the conference' and 'only local transportation (for Indian delegates) to and fro from the place of stay to the venue of the conference'.

Mode of Payment

The participants are requested to deposit registration fee by only bank transfer and send the online transaction details to the organizers. The Electronic bank transfer details are as under:

Track	AME-2020	AISCT-2020	ACFBT-2020		
Account Name	AME-2020	AISCT-2020	ACFBT-2020		
Account Number	3770317464	3773781038	3773780953		
Bank Name	Central Bank of India SLIET, Longowal, Sangrur, Punjab, INDIA- 148106 CBININBB				
Bank Address					
Swift Code					
IFSC Code	CBIN0283105				
MICR Code	148016003				
Brach Code	83105				

Accommodation

Limited accommodation is available at the venue. Information regarding accommodations in the nearby vicinity on payment basis will be made available. The details are available at conference website.

Contact us

AME-2020	AISCT-2020	ACFBT-2020
Dr. Jaspal Singh Gill +91 94172 70370 +91 1672 253306 (O)	Dr. Birmohan Singh +91 98159 80400 +91 1672 253208 (O)	Dr. Vikas Nanda +91 98159 80054 +91 1672 253254 (O)
Dr. Kulwant Singh +91 98156 51868 +91 1672 253286 (O)	Dr. Ashwani K. Aggarwal +91 95305 30190 +91 1672 253347 (O)	Dr. Gulshan Kr. Jawa +91 94631 67202 +91 1672 253322 (O)
ame2020@sliet.ac.in	aisct2020@sliet.ac.in	acfbt2020@sliet.ac.in



SLIET-I-CON-2020

Under TEQIP-III (Twinning Program)

- International Conference on "Advances in Mechanical Engineering (AME-2020)"
- International Conference on "Advances in Soft Computing Techniques (AISCT-2020)"
- International Conference on "Advances in Chemical, Food and Bioprocess Technology (ACFBT-2020)"

Sept. 02nd - 05th 2020



Organised by

Sant Longowal Institute of Engineering and Technology Deemed to be University

(CFTI under MHRD, Government of India) Longowal, Sangrur (Punjab) India - 148 106 www.sliet.ac.in

In association with

National Institute of Technology, Uttarakhand (INDIA) www.nituk.ac.in

About SLIET-I-CON-2020

SLIET-I-CON-2020, a Multi-Track International Conference to be held during September 02-05, 2020 is a prestigious event organized by Sant Longowal Institute of Engineering and Technology (SLIET), Longowal with a motivation to provide an excellent international platform to encourage academic activities to help students as well as teachers to continuously develop their skills to meet the demands of the present society. SLIET-I-CON-2020 will bring together the. Academicians, Engineers, Technologist, Delegates from Industry, Researchers, budding Students and Scientists to discuss current trends and future developments in the field of Mechanical Engineering, Electronics & Communication Engineering, Food Engineering & Technology, Chemical Engineering, Computer Science & Engineering, and Electrical & Instrumentation Engineering. Three International Conferences under the umbrella of SLIET-I-CON-2020 will be organised. The Department of Mechanical Engineering is the organizer of International conference on "Advances in Mechanical Engineering (AME- 2020)" under Track-I. An International Conference on "Advances in Soft Computing Techniques (AISCT2020)" (Track II) will be jointly organized by Department of Electrical and Instrumentation Engineering, Computer Science and Engineering, Electronics and Communication Engineering. Department of Chemical Engineering and Department of Food Engineering and Technology will jointly host the International Conference on "Advances in Chemical, Food and Bioprocess Technology (ACFBT-2020)" under Track III.

About SLIET

Sant Longowal Institute of Engineering and Technology (SLIET) is a Centrally Funded Technical Institution (Deemed to be University) set up by MHRD, Government of India, with an aim to achieve technological excellence through innovation. It caters to the technical manpower requirements at various levels by adopting a new concept of modular system in imparting technical education with emphasis on practical training in industry. It offers the Integrated Certificate Diploma (ICD), B.E., M.Tech., M.Sc., MBA and Ph.D. in various disciplines of Science, Management, Engineering and Technology, 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. The institute has a sprawling area of 445 acres of land. The campus of the institute extends a beautiful and well developed lush green area with many topographically featured picturesque landscapes, numerous buildings of various nature and stature and metal road network. The campus presents a spectacle of harmony and natural ecosystem. The institute is situated at the outskirts of Longowal and is around 8 km from Sangrur-Barnala Highway, The Institute is connected by road with Sangrur (18 km), Barnala (25 km), Patiala (75 km), Ludhiana (90 km), Chandigarh (140 km) and Delhi (270 km), The nearest railway stations are Sangrur (18 km), Sunam (16 km) and Dhuri (32 km) and the nearest international airport are Ludhiana (90 km) and Chandigarh (130 km).

Technical Sessions

Technical sessions will focus on the theme of the three International Conferences under the umbrella of SLIET-I-CON-2020 and the following broad themes will be covered with interaction through plenary sessions, invited lectures, paper presentations and poster sessions. There will be three best paper awards each in oral and poster presentations in each session. Authors are invited to submit their original, unpublished and quality research papers in the areas (but not limited to) of new developments. The following topics, but not limited to are to be covered:

Track-I

International Conference on "Advances in Mechanical Engineering (AME-2020)"

- Additive Manufacturing, Reverse Engineering
- CAD. FEM. CFD
- CAM, Mechatronics and robotics
- Agile Manufacturing
- Materials and Processing, Composites
- Joining Processes (Welding)

- Surface Engineering and Coatings
- Advance Casting and Forming
- Machining, Micro/Nano/Non-Conventional Machining
- Design for Manufacturing and Assembly
- Vibration and Condition monitoring
- Modelling, Simulation and optimization Algorithms
- Product Design and Development
- Green Manufacturing and Industry 4.0
- Structure Mechanics, Biomechanics, Nano Technology
- Human Factor Engineering
- Logistics and Supply Chain Management
- Operations Management, Technology Management
- TQM, Six-Sigma and Productivity Enhancement
- Facility Design, Material Management, Waste Management
- Reliability and Maintenance Engineering
- Sustainability in Manufacturing
- Applied Thermal Science
- Electric vehicles
- Non-Conventional Energy
- Environment Management, Energy auditing of Mechanical Systems
- Other Allied Topics

Track-II

International Conference on "Advances in Soft Computing Techniques (AISCT-2020)"

- Evolutionary Computation
- Expert Systems
- Artificial Intelligence
- Machine Learning
- Pattern Recognition
- Convolutional Neural Networks
- Deep Learning
- Data Analytics
- Swarm Intelligence
- Fuzzy Systems
- Fuzzy Logic Systems
- Neural Networks
- Multi-Agent Systems
- Neural Genetic Systems
- Neural Fuzzy Systems
- Reinforcement Learning
- Statistical Data Analysis
- Complex Systems
- Hardware implementations of these soft computing techniques Applications of soft computing to testing and diagnostics of medical data, business and financial systems, information systems, healthcare systems, intelligent systems, control systems, prediction and forecasting, robotics, reliability analysis, cost-benefit analysis, biomedical & biometric analysis, web and text mining, image and signal processing, grid computing, smart cities and scheduling, wireless sensor networks, bioinformatics, systems biology, solar energy, internet and wireless security, mobile computing, IoT, natural language processing, intelligent transportation etc.

Track-III

International Conference on "Advances in Chemical, Food and Bioprocess Technology (ACFBT-2020)"

- Biomass Conversion
- Energy and Environment
- Engineering Materials for Chemical Processes
- Innovations in Unit Operations and Processes
- Chemical Reaction Engineering and Thermodynamic Processes Polymer Processing and Technology
- Polymer Reaction Engineering

- Paper and pulp Technology
- Process Synthesis, Design and Development
- Chemical and Bio Separation Technology
- Sustainable and Clean Process Technology
- Water and Wastewater Management and Treatment Advanced Oxidation Processes
- High pressure and High Temperature Process Technology
- Photo and Electrochemical Engineering
- Membrane Engineering
- Waste Sludge Treatment and Disposal
- Particulate Matter/Solids Processing
- Process Safety Management
- Transport Phenomena Coal and Natural Gas
- Petroleum Engineering
- Emerging Food Processing Techniques
- · Emerging Techniques for Food Safety and Quality.
- Innovations in Food Process Engineering
- Innovative Food Product Development
- New Perspectives in Food Biotechnology and Fermentation
- Novel Insights in Composition of Foods
- Value Addition of Food Industry Byproducts
- Process Economics and Business Management
- Chemical and Food Engineering Education
- Process Engineering Computations and Optimization
- Process Modeling and Simulation
- Chemical, Food & Bioprocess Instrumentation and Control
- Bioprocess and Biosystems
- Bioprocess Integration and Intensification
- · Bioresources Engineering and Technology
- Biofuels and Bioenergy
- Biopharmaceuticals
- Biosensors and Biodevices
- Biochemical and Bio-molecular Engineering
- · Bioengineering and Biomedical Engineering
- Biological Treatment of Petroleum Refining Effluent
- Agro and Industrial Bioprocessing

Publication opportunity

All accepted and presented manuscripts will be published in reputed journals

as per their relevancy:

*Name of journals will be announced soon

Sponsorship and Exhibition

SLIET-I-CON-2020 invites government departments, R&D organizations, academic institutions, start-ups. industries, publishers, researchers etc. to sponsor or co-sponsor the event and showcase their products/services in the relevant areas during the conference.

Platinum: Rs. 5,00,000 : Rs. 3,00,000

Silver : Rs. 1,00,000

Bronze : Rs. 50,000

Locate us

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

Though the weather in SLIET Longowal normally remains pleasant at the end of the month of February but warm clothes may be required.



VISA Requirements

Overseas delegates who require Indian Visa for participation are requested to contact the organizers in advance for guidance and invitation letter.