



# Anshumat

Vol. II, Issue-I (April 2019)

Quarterly Newsletter

**Sant Longowal Institute of Engineering and Technology, Longowal-148106**

**संत लौंगोवाल अभियांत्रिकी एवम् प्रौद्योगिकी संस्थान लौंगोवाल- 148106**

**(Deemed to be University under MHRD, Govt. of India)**

Visit 'ANSHUMAT' at <http://sliet.ac.in/newsletter>

इंतजार करने वालों  
को सिर्फ उतना ही मिलता है  
जितना कि कोशिश करने  
वाले छोड़ देते हैं ।  
- ए.पी.जे. अब्दुल कलाम



बुरे वह लोग नहीं, जो कहते हैं  
कि आप अपने सपनों को हासिल  
नहीं कर सकते, बल्कि बुरी आपकी वह  
सोच है जो इस बात को सच  
मानने लगती हैं  
- अरविन्द कटोच



## INDEX

S.No.	Article	Page	S.No.	Article	Page
1	New Chairman, Board of Management	2	18	Visit of Prof. Klimis Ntalianis	6
2	Convocation-2019	2	19	RACIT-2019	7
3	Certificate award Ceremony	3	20	Programme on Soft Skills	7
4	National Science Week-2019	3	21	National Mathematics Day	8
5	Panasonic India Innovation Centre	3	22	STTP on Artificial Intelligence.	8
6	Annual Sports Meet-2019	3	23	NIT-UK Faculty visit to civil Engg. Dept.	8
7	Football Tournament and Camp	4	24	CTRES - 2019	8
8	TECHFEST-2019	4	25	Visit of Officials of NIT-UK	9
9	SELP program organised in SLIET	4	26	SLIETCON-19 Track V	9
10	Leadership Academicians Programme	5	27	NHFPTN -2019	9
11	Republic Day Celebration	5	28	Department of Mechanical Engg.	9
12	Evapotranspiration Toilet Constructed	5	29	Department of Physics	10
13	Workshop on Space Science	5	30	Staff & Faculty Activities	10
14	Workshop on IPR for Students	6	31	Junkyard Warriors Bags Award	11
15	SPIC MACAY Recital	6	32	'JUGGERNAUTS' lift Trophy	11
16	The Institute of Engineers-SLIET	6	33	Team Piraticas in SIH -2019	12
17	Robotics and Automation Society	6	34	Other Achievements	12

खुशियाँ हमेशा चंदन की तरह होती है, दूसरों के माथे पर लगाओ तो अपनी भी उंगलियाँ महक जाती हैं ।

## INSTITUTE ACTIVITIES & NEWS

### Sh. Jagdish Rai Singal Appointed new Chairman, Board of Management of SLIET

**Sh. Jagdish Rai Singal**, Chairman, Eastman Auto & Power Limited and Eastman Group, Gurugram has been appointed as Chairman, Board of Management (BoM), of Sant Longowal Institute of Engineering and Technology, Longowal for a period of Three years w.e.f. 15th Feb., 2019 by Ministry of Human Resources Development, Government of India.



### SLIET holds its 21st Convocation

21st Annual Convocation of the institute was held on 9th March 2019 at the main auditorium. The convocation was presided over by His Excellency Shri V. P. Singh Badnore, Governor of Punjab. Shri Jagdish Rai Singal, Chairman, Board of Management, was the Guest of Honour on the occasion. During the Convocation, 30 Ph.D., 141 Post-Graduate Degrees, 535 B. E. Degrees and 379 Diplomas in various streams were awarded.

Professor Ajat Shatru Arora, Dean (Academics), SLIET, welcomed the dignitaries and Professor Shailendra Jain, Director SLIET, presented a brief report of academic and other activities carried out during the year. Listing the achievements, Professor Jain informed that SLIET was fulfilling its mission of providing excellent education through its unique, modular, multi-entry and multi-exit programmes, and research. During the year, the Institute had signed MOUs with Homi Bhabha Cancer Hospital, Sangrur, Institute of Materials Science, Vietnam Academy of Science and Technology, Pharma Affiliates, Panchkula and Threat Landscape Cyber Solutions Pvt. Ltd., Bangalore. While congratulating the students for their achievements, Professor Jain emphasized that they should take forward the knowledge gained in the institute and



strengthen it with honesty, hard work, sincerity, integrity and above all with a sense of pride to serve the humanity and the country.

Paying rich tributes to late Sant Harchand Singh ji Longowal, Hon'ble Shri V.P. Badnore, Governor of Punjab in his presidential address emphasized the need to remain united to face the challenges of global terrorism with courage and fortitude. The recipients of diploma and degree, he emphasized, must become partners in the building of a new, strong, resurgent, diverse and vibrant India. Patriotism, he observed, was all about working ethically, proficiently, honestly and whole-heartedly in our chosen sphere to enhance public good. He appreciated the contribution SLIET was making in the field of technical education and towards preparing the technical workforce for nation's development.



Shri Jagdish Rai Singal, Chairman, BOM congratulated Director SLIET and his team for their contribution and advised that the institute must not ever rest on its laurels; rather, it must always be ready to grab the opportunities that came its way to fulfil the expectations of the society. He also cautioned the students to remember that understanding of Science and Technology alone could not promote a country's progress and prosperity, it was only the strong values inculcated in them by their teachers and parents that would enable them to contribute well in the development of the nation. The function concluded with vote of thanks proposed by Professor Ajat Arora, Dean Academics.

The 21st Annual Convocation held on 9th March, 2019, has been a remarkable event of history of SLIET, when the Institute hosted Hon'ble Governor of Punjab and the President of SLIET Society for the first time. The success of organization of such an event is attributed to great leadership of Prof Shailendra Jain and hard work of all SLIETians. It is to put on record the great work done by the Academic Section, Director's Office, Dean (Academics)'s



office, Estate Office, Deans, HODs, Conveners and members of various committees for the successful completion of the 21st Annual Convocation.



### Certificate award Ceremony

The Certificate Award Ceremony of the Institute was also held on 6th March 2019, where approximately 250 passed out students were awarded certificates, medals and other awards. Prof Shyam Sundar Pattnaik, Director, NITTTR, Chandigarh, was the Chief Guest of the function.



### National Science Week Celebrated

To celebrate the contributions of Sir CV Raman and to the progress made by India in science and technology for the improvement of common man's life, SLIET, Longowal celebrated "National Science week" from 25th February to 28th February 2019 for third time in a row. This year's science week is being celebrated with a theme "Communicating Science for all". The inaugural function of the national science week programme took place on 25th February and the occasion was graced by Dr. Sandeep



Garg, IPS, SSP Sangrur as a Chief Guest. Many institute dignitaries including institute's Director Prof. Shailender Jain, Prof. AS Arora, Dean (Academic), Prof. PK Singh, Dean (R&C) and Prof. MM Sinha, Prof & Convener of the National Science Week shared the dais with the Chief guest.

Dr. Sandeep Garg, shared his academic pursuits towards the growth of his career and the growing role of science and technology in particular in police functioning. Dr. A.S. Arora, Dr. P.K. Singh and Dr. M.M. Sinha all spoke on the occasion and highlighted the role of Sir CV Raman and other scientists in the growth of Science and Technology in the country.

### First Panasonic India Innovation centre launch

First Panasonic India Innovation centre launch and North India workshop for University/Technical Institutions VCs/Directors /principals was held at PU Chandigarh in January 2019. Inauguration Address was believed by Prof. Shailendra Jain Director SLIET, Pankaj Rana South East Asia head Panasonic, Prof Savita Director UIET and Sh N K Goyal president CMAI of India. SLIET Longowal was selected for the first Innovation centre of North India.



### Annual Sports Meet-2019

Annual sports meet- 2019 of SLIET, Longowal was held on 12th March 2019 at SLIET main stadium. Around 500 students participated in various athletics events, like different jumps, throws and running events for both boys and girls category. Director, SLIET gave away medals and certificates to the winners. The annual meet was conducted with the help of sports incharge and co-ordinators of the various events. All participants were given coupons for participation. The event was a grand success.





## Football Tournament and Camp Organized by IYSA coaches and Arsenal (UK) coaches.

Sports Department of SLIET organized Football coaching camp and a football tournament for boys and girls of SLIET, with the help of IYSA, New Delhi and Arsenal Football Club, UK from 05th March to 07th March 2019. One female and one male coach of Arsenal Club along with coaches of IYSA conducted the coaching camp. Approximately 100 students participated in this camp, and enhanced their skills and knowledge of the game of football.

The football tournament was held simultaneously, daily in the evening from 05th March to 07th March 2019. There were 12 boys hostel teams and 04 girls hostel teams. Boys Hostel -06 and Girls Hostel-01 became champions in boys and girls category respectively. Boys Hostel-10 and Girls Hostel-03(A) were second in their respective categories.



## SLIET Technical Festival-TECHFEST'19

Sant Longowal Institute of Engineering and Technology organized its annual technical festival “techFEST'19” powered by Oppo on 15th and 16th of March 2019 with the theme “Innovation in cycle design”. “Innovation is what defines an engineer”. For the past 28 years the college has been home to innovative ideas, research and development and has witnessed innumerable technical events. The importance of technology grew, but yet knowledge remained the same. The Institute is regularly organising the techFEST, an Annual Technical Festival from the last 20 years. It is first time that the techFEST has announced a total cash prize



worth around ₹ 5 Lac and other prizes of worth around ₹ 2 Lac from sponsors. This year's festival was able to attract the students from different colleges of surrounding states as well as from colleges of Punjab.

The Chief Guest - Prof. Vinod Yadav, Director of NIT Hamirpur, inaugurated the fest on 15th March. Sardar Gurmeet Singh Kular, President, Federation of Industrial and Commercial Organization (FICO) and Sh. Vijay Shanbagg, Dy. General Manager (DGM), State Bank of India, Patiala were the Guest of Honor. The techFEST'19 witnessed more than 50 events spread over 8 major technical domains. Technical events and other major attractions included “The MAGIC show” sponsored by Make My Trip, by Mr. Akshay Singh and Team and mega event i.e., “The LASER Show” sponsored by The State Bank of India, was presented on 16th March by a team from Laser Show India, Bangluru. The major initiatives of techFEST'19 included the support for the Digital India initiative launched by Shri Narendra Modi ji by allowing only digital transactions and registrations via its website. The team has also introduced its own currency for the fest which served as a digital platform for transactions. Students from all over India would be involved and participated in complex issues, exchange innovative technical ideas and also inspire others to explore and do something creative. The Director of the Institute Prof. Shailendra Jain bestowed the good wishes to the SLIET fraternity for organising such annual fest. The Chairman of the fest Prof. Ravindra K. Saxena and Vice-Chairman Dr. Damanpreet Singh has informed that several innovative ideas and events are specifically devised and conceptualised to maintain the true technical fervour of the fest and maintain the zeal in the participating teams and colleges.

## SELP program organised in SLIET

The Art of Living - Student Excellence and Learning Program (SELP), funded by TEQIP-III (Twining Program) was conducted in SLIET from 4th to 9th February, 2019 by the dynamic faculty, Dr. Vikas Gautam and his team. This program aids in improving student learning, boosting confidence, enhancing creativity and communication that



helps in developing their leadership and team building skills. The program was an excellent blend of interactive intense group processes, talks, presentations and fun based learning methodology that helps students to enhance their lives. The Coordinator of the program Dr Navdeep Jindal reported that about 55 students of UG programs attended the program spread over 6 days.

After attending the program, students reported a marked increase in their energy levels, clarity of mind & decision making ability.

The vision is to empower our students so that they become strong internally to deal with the challenges, become job ready and take responsibilities towards their own self and the nation.

### Senior Faculty attends “Leadership for Academicians Programme” organised at IIT (BHU) and Penn State, US

Dr. Harish Kumar Chopra, Dean (Planning and Development) and Registrar SLIET and Dr. D. C. Saxena Dean (Student Welfare) have attended 3 weeks "Leadership for Academicians Programme" (LEAP) including 2 weeks training by IIT (BHU) Varanasi from February 25, 2019 - March 9, 2019 plus 1 week training by Penn State, USA from March 11, 2019 - March 15. This leadership program is organised under the aegis of MHRD, Govt of India for senior faculty with high academic credentials to provide leadership and managerial skill of problem solving, stress management, team building, conflict management, effective communication, and challenges of governance in Higher Education. SLIET expresses its gratitude MHRD, GoI for encouraging such initiatives.



### SLIET Celebrated Republic Day

Sant Longowal Institute of Engineering and Technology celebrated Republic Day with patriotic fervour on 26th Ja., 2019 in the Main Auditorium of the Institute. Director SLIET unfurled the national Tricolour and Ceremonial parade was carried out by SLIET NCC cadets and sweets were distributed amongst those who were present on this auspicious occasion. Faculty and staff of the Institute participated with enthusiasm.



### Evapotranspiration Toilet Constructed in SLIET Longowal

Dr. Marta Venduzer, US based Social Worker, constructed the evapotranspiration toilet based upon chemical and biological treatment and reuse of household blackwater in the nursery. This concept is popularized over the last two to three decades by permaculture practitioners in different countries, especially the U.S. and Brazil. The largest advantage of this model is the tank is self-cleaning. It is a natural, zero-discharge system, digesting, absorbing, and releasing all of the human excreta. Marta has done all these without any help from any NGO or government aid with her personal money. Interestingly, all these at one-third of the cost of the similar governmental projects in these villages. This kind of toilet has been constructed first time in Punjab i.e in SLIET. Longowal.



### One day workshop on Space Science Research organized by IEEE Student Branch

One day workshop on Space Science Research jointly sponsored by Space Application Center (SAC) of Indian Space Research Organization (ISRO), Ahmedabad and TEQIP-III was organized by IEEE Student Branch at Sant Longowal Institute of Engineering and Technology, Longowal on January 9, 2019. Scientist SE at ISRO and



alumnus of IISc Bangalore, Santosh Kumar Tripathi working on Multispectral Satellite Images motivated students to pursue space science research and to join ISRO research labs for nation's development.

### **Workshop on IPR for Students and Faculty Members by Institute Innovation Cell**

One Day workshop was organised by Institute Innovation Cell on 4th February, 2019. The talks delivered by Dr. Vijay Kumar Sukhwani, Professor, Govt. Engineering College, Ujjain was very interesting. Dr. Vijay Kumar Sukhwani is very dynamic Motivational Speaker & trainer and a very powerful life coach. Dr. Sukhwani enlightened the audience on the history of Intellectual Property Rights & said that protection of IPR (intangible property) has definite benefits, such as to propagate innovative culture, profitability, market leadership and helps creation of wealth for the individual and Nation. He explained IPR as creation of mind, inventions, literary and artistic works, symbols, names, images and designs used in commerce. He stressed on the importance of IPR and need for its protection. He voiced that India has miles to go, as we have a valuable collection of traditional knowledge. Session was followed by an Interactive Session / Q&A Session. The students were actively joined and involved in the question answer session.



### **Hindustani Classical Vocal recital organised by SPICMACAY, SLIET chapter**

A Hindustani Classical Vocal recital performance under the aegis of Spic Macay took place on 25th February, 2109 at Sant Longowal Institute of Engineering and Technology. The act was presented by Rajnish Mishra and Ritesh Mishra. The artist brothers belong to a traditional music family of Benaras Gharana. They received their initial training in music from their grandfather Hanuman Prasad Mishra, and Gopal Mishra. Later, they honed their skills under Rajan Mishra (father) and Sajan Mishra (uncle) of Banaras Gharana. Rajnish and Ritesh Mishra have been honoured by many prestigious organizations, like the Yuva Ratna Award by Rotract Organization, and Certificate of Honour by Bhartiya Vidya Bhawan, USA. They have many recordings to their credit including the Grammy Award,

nominated album, Rise. The programme began with the traditional lightening of the lamp by Prof. Shailender Jain, Dean (SW) Prof. J. S. Ubhi, Dean (Acad) Prof. A. S. Arora, and Dean (R&C) Prof. P. K. Singh. The event was presided over by ADC(G), Sh. Rajesh Tripathi. At the end of the event, Mishra brothers interacted with the students and satiated their queries by sharing interesting facts & valuable inputs. The performers were applauded and a token of gratitude was given to them by the Director. After the performance Dr. Surita Maini paid gratitude to Spic Macay and Anwar Khan Langa & Troupe for their delightful performance.

### **The Institute of Engineers-SLIET (Diploma Chapter) Events**

The Institute of Engineers-SLIET (Diploma Chapter) India has organized the events from January-March 2019 which are mentioned below:

1. Mathematician Athletic 19.01.2019
2. Treasure Hunt 23.02.2019
3. Max Hospital Health Camp Assisted at Sangrur 24.02.2019
4. Truth-lie & Balloon Race 02.03.2019

The more than 700 students participated in the events

### **SLIET Robotics and Automation Society organised a workshop on IoT in February 2019**

A two day long workshop was conducted on IoT by radiance IIT Bombay in collaboration with i3indya. SLIET was amongst one of the colleges selected for the zonal workshop cum competition. It saw numerous participation of students from colleges of all over Punjab and maximum participation from SLIET. After the two day long workshop there was a competition conducted on IoT, where amongst the five team selected for the semi final four were from our college. All the things related to IoT was discussed in the workshop including embedded C which was required for the programming on At Mega 16. The workshop was a huge success. Major role to make this workshop successful was played by the SRAS team.

### **DEPARTMENT ACTIVITIES**

#### **Department of Computer Science and Engineering Visit of Prof. Klimis Ntalianis, University of West Attica, Athens, GREECE**

The Department of Computer Science and Engineering has associated the University of West Attica, Athens, GREECE under ERASMUS+ programme. Under this program, Prof. Klimis Ntalianis, University of West Attica, Athens, GREECE visited the department of Computer Science and Engineering, SLIET, Longowal. During the visit, Prof. Klimis interacted with the faculty and Staff members of the CSE Department, SLIET, Longowal. Prof. Klimis has given an Expert talk on the topic "Global Trends in Education" to more than 120 students on dated 05/02/2019.

Prof. Kllimis has interacted with a special session focussed on Research for the PhD and PG Scholars on dated 06/02/2019. Prof. Klimis also suggested the research and future perspectives of social computing to the faculty and staff, It is worth to mention that Dr. Vinod Kumar Verma, Assistant Professor, Computer Science Department had visited University of West Attica, Athens, GREECE during December 2017 under the same program.



### **RACIT-2019 orrganized in SLIETCON-2019 held at NITTTR Chandigarh**

The Department of Computer Science and Engineering had organized TRACK-III: Recent Advances in Computing and Information Technology (RACIT-2019) of the Multi-Track National Conference (SLIETCON-2019) organized by Sant Longowal Institute of Engineering and Technology, Longowal on March 01-02, 2019 at NITTTR, Chandigarh. RACIT-2019 covered emerging research areas like Artificial Intelligence, Cloud Computing, Machine Learning etc in the field of IT. RACIT-2019 was organised in five sessions and each session included talk by eminent expert such as Prof. Sukhwinder Singh (UIET Chandigarh), Prof. Ajat Shatru Arora (SLIET Longowal), Prof. Seema Bawa (TIET Patiala), Prof. R.B. Patel (NIT Uttrakhand), Mr. Amit Dua (Signity Solutions Co. Chandigarh). More than thirty delegates from different states of India shared their ideas and research work in this conference track. The delegates were awarded for best paper presentation (First and second prize) along with merit certificates in each session.



### **Department of Management and Humanities Three Days Programme on Soft Skills and Counselling Organised**

Counselling and Soft Skills Club of the Institute had organised a three days programme on Soft Skills and Counselling from 11 March 2019 to 13 March 2019. The main emphasis in the programme was to enhance the soft skills of the students and inculcation of Human Values. The target group was ICD students. Approximately 100 students attended the programme.



On 12th March, Mr. Bharat Bhushan, a social activist and a spiritual leader disseminated an extremely motivating lecture on the importance of Human values by citing examples from day to day life. On 13th March, a renowned Physician, Dr. R. Gupta delivered a talk on significance of Human Values and importance of Yoga and Meditation. Apart from that a number of other activities for boosting Communication Skills of the students were also exhibited. The programme was coordinated by Dr. Pardeep Kumar Jain, Dr. Parveen Kaur Khanna and Dr. Mandeep Ghai who also interacted with the students on various practical topics on all the three days.





## Department of Mathematics

### National Mathematics Day-2018 celebrated

Department of Mathematics of Sant Longowal Institute of Engineering and Technology (SLIET), Longowal, celebrated National Mathematics Day on 7th Feb., 2019. Prof. Shailendra Jain, Director, SLIET and Prof. A.S. Arora, Dean Academic, inaugurated the programme. In their inaugural lecture both emphasised the importance of study of mathematics at all levels and particularly in engineering curriculum. On this occasion Prof. Vinod Mishra and Prof. R.K. Mishra of SLIET, delivered lectures on 'Mathematical Insight & the legacy of Ramanujan' and 'How Mathematics can change our Life', respectively. A Popular Lecture was delivered by Siksha Rattan Dr. Jaswinder Singh of Patiala. Approximately 450 students from 1st year ICD (from SLIET) and nearby schools attended the programme and they enjoyed it very much. Finally Prof. Sushma Gupta, Head of the Department, Mathematics expressed her profound thanks to PSCST for their sponsorship and support to organise this event and thus helping in spreading awareness about importance of mathematics in life and society.



The Inauguration was followed by a lucid lecture by Prof. Shailendra Jain on Fuzzy Logic, lectures and STTP for the day ended with Artificial Intelligence in Bio Medical by Dr. Surita Maini, EIE Deptt SLIET Longowal. Prof. R. K. Saxena from SLIET was the Chief Guest of Validictory ceremony. The 5 day STTP proved to be very important for the faculty and research scholars working in the area of Engineering.

## Department of Civil Engineering

### NIT-UK Faculty visit to department

Under the Twining component of TEQIP-III Dr Kranti Jain (Head-Civil Engineering) from the mentee Institute NIT-Uttarakhand visited the the department on 19th March 2019 to discuss the collaborative activities. During the interaction certain activities have been finalized to strengthen the relation between the two CFTI's. Discussions were held to initiate the collaborative visits by the faculty of Civil engineering of both the Institutes.



### Computational Techniques in renewable Energy Systems (CTRES-19), Track IV, under SLIETCON-2019

Chairman: Dr. Sanjay Marwaha, Coordinators: Dr. Manpreet Kaur and Dr. Raj Kumar Garg

Computational Techniques in Renewable Energy Systems (CTRES-19), Track IV, under SLIETCON-2019, which



## Department of Electrical and Instrumentation Engg.

### STTP on “Artificial Intelligence and Sustainable Applications”

The STTP was inaugurated by Chief Guest of program Prof. Shailendra Jain, Director SLIET, Longowal and presided over by Prof. R. S. Patel, Professor, Computer Science, NIT Uttarakhand. In his inaugural speech, the chief guest Prof. Shailendra Jain addressed about chronological investigation in the field of Artificial Intelligence (AI) and its influences on people, their communities, and society. He also suggested that we should move towards excellence in future. There are total thirty one (06 from SLIET, Longowal and 25 from NIT, UK) participants enrolled for the training program which includes external and internal members. The main objective of the program was to make participants aware of power of AI as there is no field that will be left untouched by the transformational power of AI including energy conservation, problem solving and sustainable solutions with affordable cost.



was aimed to provide new insight on the advancements in various computational techniques applicable to renewable energy systems, has been successfully organized by the department of EIE, SLIET on March 1-2, at NITTTR, Chandigarh. The conference provided an opportunity to find alternate energy solutions and to deliberate on current issues like sustainable energy, clean energy, greenhouse effect and related areas. It has received overwhelming response from academicians and researchers from various parts of India. Expert talks, at the beginning of the sessions were delivered by Dr. Bhim Singh CEA chair Professor IIT Delhi, Dr. Shailendra Kumar Jain Director SLIET, Dr. Ratna Dahiya Professor NIT Kurukshetra, Dr Ashwani Sharma Professor NIT Kurukshetra and Dr. J S Dhillon Professor SLIET. Forty-three participants had registered and presented their papers in five sessions conducted in two days. Participants from IIT Delhi, NIT Jalandhar, NIT Agartala, NIT Bhopal, GB Pant University, Eternal University etc. attended the conference along with the participants from the host institute.



## Department of Electronics & Communication Engg.

### Visit of Officials of NIT-UK

Under the Twining component of TEQIP-III Dr. P.K. Pal (ECE) from the mentee Institute NIT-Uttarakhand visited the ECE department on 19th March 2019 to discuss the collaborative activities. During the interaction Dr. Pal reported the shortage of faculty and accordingly the Expert Lectures have been planned to be conducted the faculty of ECE Deptt. Further STTP have also been proposed to be organized at the mentee Institute. To strengthen the research activities, discussions were held to initiate the collaborative research by the faculty of ECE Deptt. at both the Institutes.



## National Conference on Electronics, Communication and Networking Technologies under SLIETCON-19

Department of Electronics and Communication Engineering organized National Conference on Electronics, Communication and Networking Technologies under Track V in SLIETCON-19 on March 1-2, 2019. The event was coordinated by Professor AP Singh Pharwaha and Dr. Ajaypal Singh. Dr. Amod Kumar, Professor, NITTTR, Chandigarh and Ex-Chief Scientist, CSIR-CSIO, Chandigarh, Er. HS Jatana, Scientist-H, SCL, ISRO, Prof. Jagtar Singh from YCOE, Punjabi University, Talwandi Sabo and Prof. Sandeep Singh Gill from GNE, Ludhiana, were eminent external experts in the event. There were four technical sessions in the event covering different areas including Image Processing, Antenna and Electromagnetics Engg., VLSI technology, Optical and Wireless Communication, which were chaired by the above renowned people in the field of Electronics and Communication Engg. Around thirty participants participated in the event.



## Department of Food Engineering and Technology

### National conference on “New Horizons in Food Processing Technology and Nutrition” under SLIETCON-19

Department of Food Engineering and Technology organized a National conference on “New Horizons in Food Processing Technology and Nutrition” (NHFPTN-2019) during 1-2 March 2019 at NITTTR Chandigarh.

## Department of Mechanical Engineering

- The students of final year Mechanical Engineering attended GATE coaching during 17 December, 2018 to 04 January, 2019 conducted by the GATE Coach, New Delhi at SLIET Longowal under TEQIP-III.
- Mechanical Engineering Department of SLIET, Longowal has organized 2nd International Conference “New Frontiers in Engineering, Science and Technology” (NFEST-2019) on the theme Advances in Mechanical Engineering in association

with NIT Kurukshetra, Delhi Technological University, NIT Srinagar and Society for Fusion of Science & Technology. The Conference was held at National Institute of Technology (NIT) Kurukshetra campus during February 18-22, 2019. The Conference was inaugurated by Dr. V.V. Rao, Distinguished Scientist & Programme Director, AGNI on 19th February 2019. Prof. Shailendra Jain, Director SLIET Longowal was one of the Patrons of the conference. Prof. Rajesh Kumar, HOD(ME), Prof. P. K. Singh, Dean(R&C) and Dr. Arvind Jayant chaired the technical sessions during the conference. In total 11 faculty & research scholars from SLIET attended the conference.

- An expert lecture on “Laboratory Safety” was delivered by Captain Anil Kumar(Retd.) Indian Navy now heading Training and sourcing Tenon Group of Company, New Delhi on 18th January, 2019 in Department of Mechanical Engineering. Dr. Indraj Singh, ASP(ME) coordinated the activity.
- National Voter's Day was celebrated on 25th January 2019 in Department of Mechanical Engineering. The complete procedure for registration as a voter was explained by the experts. Prof. Kulwant Singh coordinated the activity.
- An expert lecture on “Properties & Applications of Smart Lubricants” was delivered by Prof. Vijay Kumar Skhwani, Government Engineering College, Ujjain, on 4th February 2019 in Department of Mechanical Engineering. Prof. Rajesh Kumar, HOD(ME) and Prof. Ravinder K. Saxena coordinated the activity.
- One Day workshop titled “Technology Day Event” was organized by EDS Technologies Pvt. Ltd. Chandigarh on 7th February 2019 in Department of Mechanical Engineering. The event was Co-ordinated by the Prof. Rajesh Kumar, HOD(ME) and Prof. Ravinder K. Saxena.
- Team “Junkyard Warriors” from Mechanical Engineering won the “Durability Award” and “Pride of Punjab Award” at BAJA SAE (Society of Automotive Engineers) India 2019 event held at IIT Ropar from 6th -10th March 2019 under the Guidance of Prof. Shankar Singh.

### Department of Physics

- One expert talk was delivered by Dr. S.K. Tripathi, "Professor, Department of Physics, Panjab

University, Chandigarh in the department for UG/PG students on 30th March 2019 on the topic "Experimental techniques for the characterization of nano materials".

- Prof. M.M. Sinha, HOD (Physics) has delivered invited lecture/talk to B.Tech. students of NIT Uttarakhand at MNIT Jaipur campus on various topics related to electronic and electromagnetic materials during 1-5 April 2019.

### Staff & Faculty Activities and Achievements

- Dr. Manpreet Manna Received PFLA Excellence Award Bangalore during School Leadership Seminar on 8th January 2019 and delivered a talk on Role of E learning in School Education organised by People First Leadership Academy Bangalore.



- Dr. Sanjeev Kumar Garg, Associate Prof. (M&H) won finisher's medal in Bathinda Half Marathon-2019 organized on the theme “Run to fight against Cancer and Drug Abuse” in Bathinda in 21.1 KM category on 24th march, 2019. He secured 21st rank in his age category and completed the half marathon in his Personal Best 2Hours and 12 Minutes.
- Dr. Manpreet Manna selected a member of International Women Empowerment Forum during its launch ceremony @vigyan bhawan, New Delhi in presence of Ministry of women and child welfare, National winner from the 30+ countries (Miss Kosovo, Miss Russia, Miss Myanmar, Miss Ghana, Miss Poland, Miss Brazil, Miss South Africa, Miss Vietnam,





Miss Korea, Miss Colombia, Miss Australia, Miss Germany etc) and Ambassadors, High Commissions of various countries in February 2019.

- Dr. Manpreet Singh Manna of SLIET invited to attend the on Science, Technology and Innovation for the SDGs 2019 at United Nations Conference Centre, Bangkok as invited by United Nations, UN Secretariat, New York to represent INDIA for this World Workshop on Science, Technology and Innovation for the SDGs: and myself been included in IATT (UN Inter-Agency Tasks Team) for preparation Draft report on SDG4 to put before UN Assembly in this year end.
- Paper published in Journal of Science of Food and Agriculture, (4-1-2019). Impact Factor (Thomson Reuter): 2.379. Publisher: John Wiley. Sakshi Sukhija, Sukhcham Singh and Charanjit S Riar. Development and characterization of biodegradable films from whey protein concentrate, psyllium husk and oxidized, cross-linked, dual modified lotus rhizome starch composite
- Paper published in Journal of Food Measurement and Characterization (1-16-2019). Jasmeet Kaur, Sukhcham Singh, Dharmesh Chandra Saxena. Effect of nutraceuticals (beta-glucan concentrate, flaxseed lignan concentrate and gamma oryzanol concentrate) on nutritional, textural, pasting, thermal, structural and...
- Paper published in International journal of biological macromolecules (203-212-2019). Indu Bharti, Sukhcham Singh, DC Saxena. Influence of alkali treatment on physicochemical, pasting, morphological and structural properties of mango kernel starches derived from Indian cultivars."
- Dr. P.S. Panesar Chaired a Session during 'International Conference on Innovations, Trends & Strategies in Hospitality, Tourism and Food Technology (MM HTFT iCoN – 2019)' held on March 15-16, 2019 organized by Maharishi Markandeshwar (Deemed to be University), Mullana, Haryana.
- Dr. Vinod Mishra, Prof. (Maths) delivered expert lectures at NIT Uttarakhand, Jaipur Campus (April 01-05, 2019) under TEQIP-III Project between Mentor (SLIET Longowal) and Mentee (NITUK, Jaipur Campus)
- 3. Dr. Rajesh Kumar, Professor & Head of Mechanical Engineering Department, has been nominated as Member of the Expert Advisory Group on Device

Development Programme of Department of Science and Technology (DST), Government of India.

## STUDENTS ACTIVITIES AND ACHIEVEMENTS

### SLIET team 'Junkyard Warriors' Bags 'Durability Award' and 'Pride of Punjab' Award at twelfth edition of Mahindra BAJA SAE India 2019 at IIT, Ropar

Mahindra in association with Society of Automotive Engineers (SAE) India, successfully organized the 2nd part of twelfth edition of Baja SAE India 2019 at Indian Institute of Technology (IIT) Ropar (Punjab) from 06th–10th March` 2019. This event aims to provide an opportunity to young, enthusiastic and talented engineering students to showcase their passion for automobiles while encouraging them to conceive, design and fabricate four-wheeled single-seater all-terrain vehicle (ATV). SLIET, Longowal team "Junkyard Warriors" (19 team members) under the guidance of Dr Shankar Singh, Professor (Mechanical) as Faculty Advisor (FA) conceived, designed and fabricated a four-wheeled single-seater all-terrain vehicle (ATV), and participated in the Baja SAE India 2019 at Indian Institute of Technology (IIT) Ropar (Punjab) from 06th –10th March` 2019. The Team captain was Ashish Tiwari and Vice-captain & Driver Arshvir Singh Sidhu. The SLIET 'ATV' (# 57) driven by Arshvir Singh completed highest 40 laps in the endurance race of four hours. After a nail-biting battle for the title in the endurance round, SLIET team 'Junkyard Warriors' bagged the Durability Award and Pride of Punjab award (Punjab & Chandigarh) alongwith cash prize.



### SLIET team 'JUGGERNAUTS' lifted 2nd Runner - Up Overall Winner Trophy of 'International Go-Kart Championship-2019'

It is celebration time for the team members of 'Juggernauts' of SLIET, Longowal as the team was adjudged 'Best Build

Quality Winner' of the 7th Season of International Go Kart Championship (IGC - 2019) held at Lovely Professional University from 15th-18th March 2019. For this Championship, 100+ teams from across India and abroad had registered. The team represented by 20 vibrant students from the mechanical engineering department of SLIET, Longowal under the guidance of Dr Shankar Singh, Professor (Mechanical) as Faculty Advisor (FA), conceived, designed and fabricated the Go-Kart, and participated in the IGC 2019.



The team 'Juggernauts' were also awarded 2nd Runner-up Overall Championship's Winner Trophy and Endurance 1st Runner Up Trophy, along with cash prizes.



## Team PIRATICAS participated in the grand finale of SIH 2019

The team PIRATICAS from the Department of Computer Science and Engineering SLIET, Longowal participated in the grand finale of SIH 2019. The following students of CSE department participated namely: Louis Pegu (Team Leader), Akshat Garg, Sachin Mittal, Ankit Heer, Harris Bhatti, Ritu. The team PIRATICAS work for the problem statement DC2 by Hero Electric demanded the development of a Cloud based Application software for rental batteries. Basically Electric Vehicle production system consists of 40% components and 60% battery. For this assignment, the team PIRATICAS devised an application system where the company leases out the battery on a monthly based payment system. This

application was developed using a cloud based IoT system to keep check of the owners payments and also the check of battery vital parameters like SoH, SoC and Temperature. This parameters would later be used for maintenance and data logging. The team won the FIRST Position among 80 entries for the problem solution from the entire country. This is a matter of proud for the CSE department and entire SLIET Team.

- Ph.D. Scholar Jastej Singh of ME Department under the supervision of Dr. A.S. Shahi participated in National competition entitled “AWSAR (Augmenting Writing Skills for Articulating Research)” organized by Department of Science and Technology (DST), New Delhi. His story entitled “Welding Research: Effect of Joint Design on the Corrosion Resistance of Welds” has been shortlisted amongst 100 selected stories for AWSAR award comprising of cash price of Rs.10, 000/- and a certificate of appreciation. 
- Jaspreet Singh, Ph.D. Scholar from Sant Longowal Institute of Engineering and Technology (SLIET), Punjab, is pursuing his research under the guidance of Dr. Ajat Shatru Arora, Professor, EIE Department, SLIET. He is working on “Thermographic evaluation of superficial organs for various diseases using active and passive thermal imaging.” Recently, his popular science story entitled “A non-contact approach to evaluate the effect of mindfulness meditation” has been selected for AWSAR Award 2018. 
- 11 students of EIE department had qualified the GATE 2019.
- 4 students of Mathematics department have qualified in GATE-2019 and 4 students have qualified UGC-CSIR examination.

### Team 'ANSHUMAT'

Patron : Dr. Shailendra Jain, Director; Advisor : Dr. Ajat Shatru Arora, Dean (Academics).

Dr. Sanjeev Kumar Garg, Associate Prof. (M&H)-Editor-in -Chief

Editors: Dr. Pratibha Tyagi, Associate Prof. (EIE), Dr. Vinod Kumar Verma, Asstt. Prof. (CSE); Dr. Vinod Meena, Asstt. Prof. (CE); Mr. Vipul Singhal, Asstt. Prof. (ECE); Dr. R. K. Guha, Prof. (Maths); Dr. R.K. Mishra, Head (T&P); Mr. Madan Mohan Yadav, L.A. ( ME); Dr. Om Chand, Sr. Tech. (FET); Dr. Navdeep Jindal, DR (Academics) / Mr. Sarabjit Singh, SSS