



Anshumat



Quarterly Newsletter of

Sant Longowal Institute of Engineering and Technology, Longowal-148106

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संत लौंगोवाल अभियांत्रिकी एवं प्रौद्योगिकी संस्थान लौंगोवाल-148106

भारत शासन अधीन सम विश्वविद्यालय

DIRECTOR SLIET PROF. SHAILENDRA JAIN: SLIET MODEL & ITS CAPABILITY TO GO HIGHER



“पद का अर्थ है जिम्मेदारी”

Prof. Shailendra Jain joined as Director, SLIET and has been serving the Institute since 3rd Nov., 2017. He is on deputation from Maulana Azad NIT, Bhopal where he is a Professor in Electrical Engineering.

Here are some excerpts from ANSHUMAT interview with Prof. Shailendra Jain, Director, SLIET in dialogue with **Dr. Sanjeev Kumar Garg**, Editor-in-Chief of the newsletter:

ANSHUMAT Q.1: Please share your experience with SLIET as Director for the last five years.

Director: *SLIET is an Institute with ample potential and much of it still untapped.* It is a CFTI *at par* with NITs and IIITs with a *unique mandate* of catering to demand of technical manpower at various levels, with its innovative *multi-entry, multi-exit* modular pattern of education since 1991, in line with the national education policy NEP 2020. With its sprawling campus, natural beauty and ambience, deemed-to-university status, competent faculty and staff, SLIET is poised to take giant leaps in the technical education. *Joined with a zeal to serve the institution as academic administrator, I feel privileged being at the helm of this Institute for the last five years.*

ANSHUMATQ.2: What are the core strengths of SLIET as a technical Institution?

Director: The core strengths of SLIET are:

- A unique mandate to fetch students from Class 10th, in the main stream of technical education, through skill development,
- A unique course structure with more emphasis on practical/training,

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असली शत्रु

आपकी आत्मा से परे कोई भी शत्रु नहीं है। असली शत्रु आपके भीतर रहते हैं, वो शत्रु हैं क्रोध, घमंड, लालच, आसक्ति और नफरत। – भगवान महावीर

प्रेरणा

कड़ा परिश्रम और आपके प्रयास 99 फीसदी मामलों में प्रतिभा को पीछे छोड़ देंगे।
– टिम एस ग्रावर, पेशेवर एथलीट ट्रेनर

जीवन का नजरिया

जीवन के प्रति हमारा नजरिया क्या है, इसी में तो जीवन बसता है।
दृष्टि सकारात्मक है, मन में आशा है, तो उत्साह है, खुशी है और सबसे बढ़कर, जिंदगी है।



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IMPORTANT EVENTS, ACTIVITIES AND ACHIEVEMENTS

Director SLIET attended G20 - 2nd Education Working Group Meeting



Prof Shailendra Jain, Director SLIET attended G20 - 2nd Education Working Group Meeting, held at Khalsa College, Amritsar, from March 15 - 17, 2023, as special invitee, organized by IIT Ropar. During the meeting 2nd G20 Education Working Group Seminar was organized on 15th Mar on the theme “**Promoting Research & Innovation through Collaboration**”. The G20 comprises **Argentina, Australia, Brazil, Canada, China, EU, France, Germany, India, Indonesia, Italy, Japan, Mexico, Russia, Saudi Arabia, South Africa, South Korea, Turkey, UK and USA**. Delegates from these countries attended the summit, along with persons from Industry, Ministries, University, Start-up, Accelerators from India.

Prof. Govindan Rangarajan, Director IISc Bangalore, presented his views on “**Research in Emerging and Disruptive Technologies, Industry – 4.0 and SDG**” based on

inputs from G20 and invited countries. A key note on “**Collaboration in Science & Technology, India**” was delivered by Prof B S Murty, Director, IIT Hyderabad. Another keynote address on “**SDG 17 and importance of global cooperation in achieving the goals**” was delivered by Mr. Borhene Chakroun, Director, UNESCO. Panel discussions were organised on topics “**Research in Emerging and Disruptive Technologies, Industry – 4.0**”, and “**Research in Sustainable Development Goals**”, where eminent speakers from Australia, India, UK, France, Oman, UAE, China, and South Africa shared their views. Folk fest performances and Culture of Incredible India, Theme (Punjab) was the major attraction of the event, enjoyed and appreciated by foreign delegates. An exhibition on various innovations, new technologies & products, start-ups, was the main attraction of the summit with panel discussion and Q & A sessions.

SLIET celebrated 74th Republic Day

Sant Longowal Institute of Engineering and Technology celebrated 74th Republic Day with patriotic fervour on 26th Jan. 2023 in the Institute. Director SLIET unfurled the national Tricolour and Ceremonial parade was carried out by security staff. Faculty and staff of the Institute participated enthusiastically. A patriotic cultural programme was also organised on this auspicious occasion in which students participated with full zeal and fervour. In the event numerous poems, songs, lectures were delivered related to the nationalism. Further on the occasion, Prof. Shailendra Jain exhorted everyone to toil hard for the multi-dimensional growth of the institute which will be a tribute to the nation. The faculty members and research scholars were awarded for their significant contribution in research. They were awarded 'SLIET Research Project Award (SRPA)' for acquiring research projects and 'SLIET Quality Publication Award (SQPA)' for quality research publications.



**SLIET RESEARCH PROJECT AWARD (SRPA)**

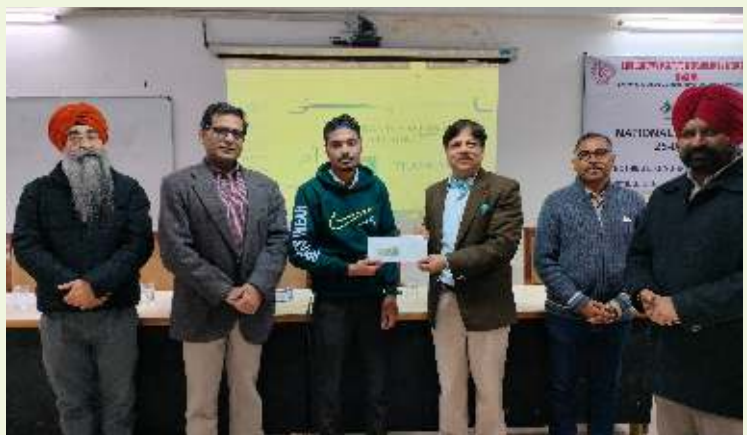
S. No.	Title of Project	Name of PI, Co-PI, Coordinator	Funding Agency	Sanction order details and budget sanctioned	Incentive proposed
1.	2.	3.	4.	5.	6.
1.	Sanction of proposal under "Fund for Improvement of Science & Technology Infrastructure (FIST) Program-2022 (TPN- 84256). Financial Assistance to the Department of Mathematics, SLIET Longowal to augment the research facilities	PI: HOD- Mathematics Prof. V.K. Kukreja	GOI, Ministry of Science & Technology, Department of Science & Technology (DST), New Delhi.	Ref. No. SR/FST/MS-I/114 dated: 19/12/2022. Budget sanctioned Rs. 70.00 Lakh. Duration of project is 5- years.	Cash award of Rs. 10, 000/- to Prof. V.K. Kukreja along with certificate of appreciation
2.	Design and Development of Terahertz Self-Multiplex Antennas Using Substrate Integrated Waveguide for 6G Wireless Communication System	PI: Dr. Kundan Kumar, A.P., ECE Department	Science & Engineering Research Board (SERB), New Delhi	F. No. SRG/2022/00066 4 dated: 06/10/2022, Budget sanctioned Rs. 16, 31, 540/- . Duration of project is 24 months.	Cash award of Rs. 10, 000/- to Dr. Kundan Kumar, A.P., ECE Department along with certificate of appreciation
3.	Submission of proposal and sanction of Visvesvaraya Ph.D. scheme Phase- II and 03 slots were allocated by Meity, New Delhi to enhance the number of Ph.D. in Electronic System Design and Manufacturing (ESDM) and IT/ IT enabled services (ITES) sector.	Nodal Officer: Dr. J.S. Ubhi, Professor, ECE	Ministry of Electronics and Information Technology (Meity), New Delhi	Implementation Order No.: PhD-02/2022/49 dated: 06/09/2022, Budget sanctioned Rs. 1, 02, 91, 200/- . Duration of scheme is 60 months.	Cash award of Rs. 10, 000/- to Prof. J.S. Ubhi along with certificate of appreciation

**LIST OF STUDENTS WINNING SLIET QUALITY PUBLICATION AWARD (SQPA)**

S. No.	Name of Ph.D. Scholar and Regn. No.	Department	Number of Papers in Web of Sciences journals	Appreciation certificate	Amount of Award	Supervisor (s)
1	Sumit Saini, PME 1706	Mech. Engg.	01	For 01 paper	Rs.5000/-	Dr. Kulwant Singh
2	Surinder Kumar, PME 1504	Mech. Engg.	01	For 01 paper	Rs.5000/-	Dr. Rajesh Kumar
3	Pardeep Saini, PME 1703	Mech. Engg.	07	For 07 papers	Rs.10000/-	Dr. P.K.Singh
4	Gulvir Singh, PME 1705	Mech. Engg.	04	For 04 papers	Rs.10000/-	Dr. P.K Singh
5	Prajya Arya, PFE1805	FET	01	For 01 paper	Rs.5000/-	Dr. P. Kumar
6	Divyani Panwar, PFE 1703	FET	01	For 01 paper	Rs.5000/-	Dr. P.S. Panesar, Dr. Harsih Kumar Chopra
7	Mohd. Aaqib Sheikh, PFE 1701	FET	02	For 02 papers	Rs.10000/-	Dr. C.S.Saini, Dr. H.K. Sharma
8	Archana Kumari, PMA 1802	Math	01	For 01 paper	Rs.5000/-	Dr.V.K. Kukreja
9	Harmandeep Singh, PMA 2011	Math	02	For 02 papers	Rs.10000/-	Dr. Janak Raj Sharma
10	Akanksha Bhardwaj, PPH 1802	Physics	02	For 02 papers	Rs.10000/-	Dr. S.S.Verma
11	Megha Goyal, PPH 1703	Physics	01	For 01 paper	Rs.5000/-	Dr. M.M.Sinha
12	Pawanpreet Kaur, PCH 1803	Chemistry	03	For 03 papers	Rs.10000/-	Dr. Harish Kumar Chopra

CELEBRATION OF IMPORTANT DAYS**राष्ट्रीय मतदाता दिवस**

25 जनवरी, 2023 को संत लोंगोवाल इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी, लोंगोवाल में राष्ट्रीय मतदाता दिवस मनाया गया। इस कार्यक्रम में बड़ी संख्या में छात्रों, शिक्षकों और कर्मचारियों ने भाग लिया। कार्यक्रम के मुख्य अतिथि के रूप में माननीय निदेशक SLIET ने इस की अध्यक्षता की। SLIET इलेक्टोरल लिटरसी क्लब और NSS SLIET ने SLIET मैकेनिकल इंजीनियरिंग सोसाइटी के सहयोग से इस कार्यक्रम का सफलता पूर्वक आयोजन किया। विशिष्ट अतिथि GSSS Boys के प्रिंसिपल श्री बिपन चावला, श्री. हरिकेश कुमार, श्री. हरविंदर सिंह, और श्री इंदरजीत सिंह मौजूद थे। केन्द्रीय विद्यालय एस एल आई ई टी की प्रभारी प्रधानाध्यापिका श्रीमती अनीता सहित संकाय सदस्यों सहित मुख्य सतर्कता अधिकारी एस एल



आई ई टी, प्रोफेसर पी. के. जैन, एच ओ डी टी एंड पी डा. आर.के. सक्सेना, एच ओ डी एम.ई. डा. ए.एस. शाही, एच ओ डी वर्कशप डा. कुलवंत सिंह, प्रोफेसर पी.के. सिंह, चीफ वार्डन डा. इंद्राज सिंह, अतिथियों में शामिल थे। इस अवसर पर छात्र रोहित राज, रोहिणी व किशन कश्यप ने भाषण प्रस्तुत किया। **NSS SLIET** के अध्यक्ष डा. गुलशन जावा, एस ई एल सी के नोडल अधिकारी डा. जे.एस. गिल, और प्रोफेसर पी.के. जैन ने युवा मतदाताओं को मतदान के महत्व और ताकत से अवगत कराया। एस एल आई ई टी के निदेशक प्रोफेसर डा. शैलेंद्र जैन ने चुनाव प्रक्रिया खासकर रिमोट वोटिंग में तकनीक के इस्तेमाल पर जोर दिया। इस कार्यक्रम में एस ई एल सी के सहसंयोजक डा. अनुज बंसल ने आभार व्यक्त किया। मतदाता शपथ ली गई और राष्ट्रगान के साथ कार्यक्रम का समापन हुआ।



PI DAY CELEBRATED BY DEPARTMENT OF MATHEMATICS

Pi Day celebrated by Department of Mathematics on 14th March 2023. Prof. Shailendra Jain, Director SLIET was Chief Guest of the event. The event started with welcome address and then Prof. V.K. Kukreja, HOD Mathematics discussed on the development of study of Pi and its importance. Prof. Shailendra Jain highlighted the importance of Mathematics in day to day life, Engineering and Technology.

Then students of M.Sc. Mathematics discussed about the contribution of Indian Mathematicians such as Brahmagupta, Mahaviracharya, Srinivasa Ramanujan, C.R. Rao and Neena Gupta etc. History of Pi, and contributions of Albert Einstein and Stephen Hawking were also presented. Games such as Sudoku, quiz on history of Mathematics and other Mathematical games were also conducted.



**Pi Day Celebration
March 14, 2023
Department of Mathematics
SLIET Longowal**





WOMEN'S DAY CELEBRATION

Women's Day was celebrated in SLIET to spread awareness about the day among everyone & to give a sense of dignity for their upcoming future. The event started with a poster & book exhibition followed by Saraswati vandana and Kulgeet. Dr. Sushma Gupta gave a brief introduction about the event. Director Prof. Shailendra Jain motivated the students through his encouraging talk. Officers from Punjab police (District Sangrur) also gave a presentation regarding cyber laws, in which all the types of possible cyber crimes were described and students were guided on the issue. The next session was of

speech by our respected chief guest Dr. Amita Rishi, who motivated girls and gave a sense of thinking to the boys for their behaviour. The day included prize distribution of the poster making competition and a pre-event i.e., e-quiz conducted by the Happy club regarding women's day which included 116 participants. As concluding event, a play was performed by Happy club regarding women's empowerment, consisting of stories of two households & referring to women's protection acts. The end of event was concluded with a vote of thanks by Dr. Yogesh Kapil.



EXPERT TALKS/SEMINARS/WORKSHOPS/CONFERENCES/ STTP/FDP/QUIZZES

Workshop on 'Role of Scientists & Scientific Institutions for the Development of Mankind'

Two-days' workshop on 'Role of Scientists & Scientific Institutions for the Development of Mankind' was organized by Sant Longowal Institute of Engineering & Technology on February, 19-20, 2023, in association with Ministry of Culture (Government of India), Vigyan Parishad Panchnad and Vijnana Bharti (Vibha). The workshop was organised to commemorate the birth anniversary of Swami Vivekananda, the prophet of modern India and apostle of vedanta in the West.

In the inaugural function on 19th February Prof. R.K. Mishra, Convener of the workshop welcomed all the guests, faculty, staff and students and Dr. Ajat Shatru Arora, Chairman of the workshop highlighted the main topics to be covered in this two days workshop. In his inaugural speech Chief Guest of this workshop Professor Kuldeep Chand Agnihotri, Advisor to Union Minister of Culture, Govt. of India paid tributes to Sant Harchand Singh ji Longowal and said that due to Santji's sacrifice the institute came into existence. He stressed upon the need of education in mother tongue.

Prof. Rakesh Sharda, Punjab Agriculture University and President Vigyan Parishad Panchnad, Prof. Adarsh Pal Vij, Chairman, Punjab Pollution Control Board, Shri Parveen Ram Das, National Secretary, Vigyan Bharti and Dr. Sanjeev Duggal, President, Vigyan Bharti Parishad graced the occasion. All the speakers emphasized on the role of Scientists, Teachings of Swami Vivekananda, Indian Knowledge System, Impact of Scientific Institutions on the Development of Mankind, Role of Scientists in India's Freedom Struggle, Technology for Agriculture, Important Features of NEP-2020. Faculty from scientific Institutions and teachers from Schools also attended this workshop. On this occasion the book "Vigyan Dwara Azadi Lyi Sanghrash" and the posters of this event were released.





Second day of the two-day Workshop on 20th February 2023, had enthralling sessions on **Teachings of Swami Vivekananda**. The session I on 2nd day of the workshop was presided over by **Prof. Shailendra Jain**, Director SLIET and was chaired by **Sh Vijay Nadda**, **Regional Organising Secretary, Vidya Bharti**. **Session II of the workshop** focused on the theme **"Role of Scientists in the Indian Freedom Struggle"**. The session was chaired by Prof. H. K. Chopra, Professor (Dept. of Chemistry SLIET) and was co-chaired by Prof. Ajat Shatru Arora Dean (FSW) SLIET and Dr. Vivek Talwar from Punjab Technical University Jalandhar who was representing Vigyan Bharti Punjab. The session III deliberated on the **theme Empowerment of Rural Women : Skilling and Upliftment Under Unnat Bharat Abhiyan (UBA)**.



The Chief guest of the session was Shri Surinder Lamba, Senior Superintendent of Police Sangrur. The event was organised under the aegis of Unnat Bharat Abhiyan and in co-ordination with Baba Farid Education and Welfare Society, Longowal. The purpose of the event was lucidly elaborated by Prof. P. K. Jain Chairman of Unnat Bharat Abhiyan SLIET Longowal. He further highlighted the activities of Unnat Bharat Abhiyan and adoption of seven villages of the surrounding area by UBA SLIET. A felicitation of women ceremony in the presence of the Chief Guest was coordinated by Dr. Manoj Goyal and Shri Kamaljeet Singh, President of Baba Farid Education and Welfare Society, Longowal in which 30 Sewing Machines were distributed amongst them so that they can be financially self-reliant. The chief guest Shri Lamba and other dignitaries were then honoured by Director SLIET and the organisers of the workshop.

DEPARTMENT OF ECE ORGANIZED ATAL SPONSORED FDP

Department of Electronics and Communication Engineering organized AICTE Training and Learning (ATAL) Academy Faculty Development Programme on **"Current Avenues in Communication and VLSI Design"** from 13th February to 24th February, 2023. As per the mandate of this FDP, 35 participants from different technical institutes located within 100 km of SLIET, Longowal attended it. The FDP laid special emphasis on Digital/Analog VLSI Design and Nanoelectronics, 5G communication technologies, signal processing through resource persons from IITs and NITs. The participants were also given the opportunity of practical experience on various equipment. An industrial tour of BSNL, Sangrur was also organized to provide the participants an inside view various sections of BSNL Telecom infra like CMTS section, NIB, CDR and IT, Mobile Section, NGN CDOT, Electrical power plant and battery section. Books on emerging technologies were also

distributed to participants and research scholars.

The valedictory ceremony was presided over by Prof. Shailendra Jain, Director, SLIET. Addressing the participants, he emphasised on such FDPs as it is essential for faculty members, researchers to update their knowledge and skills with cutting edge tools to motivate budding young minds towards science and technology. He also told that Ministry of Electronics and IT aims to train more than 85,000 engineers in chip design. He congratulated the department for disseminating the knowledge across related to high speed 5G systems. The Guest of Honour, Prof. J S Dhillon, Dean (Academics) also talked about the revolutionary changes taken place for data transmission and emphasised to get sound domain knowledge and associated skills of the subject with the prevailing practice scenario in real life with industry connect.





Cyber Hygiene Practices Quiz and National Cyber Safety & Security Pledge organized, as the part of "Stay Safe Online" Campaign

During India's presidency of G20, the Ministry of Electronics and Information Technology (MeitY) is running a campaign titled 'Stay Safe Online' aimed at creating awareness among citizens including specially-abled persons to stay safe in an online world on the widespread use of social media platforms and rapid adoption of digital payments. As India is making significant efforts towards becoming a trillion-dollar digital economy, the campaign focuses on sensitizing users of all ages about online risk & safety measures and promoting cyber hygiene thereby reinforcing the cyber safety of citizens.

In this regard, two activities (Cyber Hygiene Practices Quiz and National Cyber Safety & Security Pledge) were held in the institution as part of online campaign. 270 participants participated in the above said activities from Sant Longowal Institute of Engineering and Technology, Longowal, India (Deemed-to-be-University, Under Ministry of Education, and Government of India). All the qualified participants were awarded the certificate of participation. The overall winner of the quiz will be announced at official portal of government [www. mygov.in/staysafeonline](http://www.mygov.in/staysafeonline). These activities were coordinated by Dr. Jagdeep Singh, Assistant Professor (CSE), who is the Coordinator of SLIET Stay Safe Online Campaign.



Two Days Workshop on: "An Initiative Towards Inclusive Sustainable Future"

The Department of Chemistry organized a Two Days Workshop on: "An Initiative Towards Inclusive Sustainable Future" under IUPAC Global women's Breakfast a flagship event of the International Year of Basis Sciences for Sustainable Development on 14th & 23rd Feb. 2023. First day event started with the emphasis on diversity in Science &

Technology. PG students presented the contribution of women scientists in the field of chemistry and posters on inclusion of technology in science were displayed. On the second day, to kindle interest in Basis Sciences Quiz and Demonstrations were carried out and more than 100 students participated in the event.





SPEECH COMPETITION ON EVE OF REPUBLIC DAY

A speech competition was held jointly by Literary club and NSS SLIET on the occasion of Republic Day. The topic given for the speech was "Bharat- The Vishwaguru". The event was held at Mini Auditorium CSE block on 23rd January, 2023 and at LC1 on 24th January, 2023. A total of 25 students were present

during the event. Mr. Abdul Rehman, GCS/21 bagged the first position. Mr. Aditya Sharma, GCS/20 stood second and Ms. Komal of CTV/22 came third. The first two candidates were given the opportunity to present their thoughts in the main auditorium on 26th January, 2023.

One Week Value-added Course on "Computational and Presentation Skills"

One-week value-added course on "Computational and Presentational Skills" for students was organized by the Department of Computer Science & Engineering, SLIET Longowal from 6th March 2023 to 10th March 2023.

The main objective of this Course was to develop the skills in the students of Computation and Analysis of Data through MS Excel, Content presentation through MS Power Point, Document Creation through MS Word, and Forms Preparation through Google Form.

Theory sessions and hands-on practical sessions during the course were delivered by Dr. Jagdeep Singh, Er. Jatinder Pal Singh, Er. Rahul Gautam, Er. Preetpal Kaur, Er. Jaspal Singh, and Dr. Manminder Singh of dept. of CSE, SLIET Longowal. Dr. Sachin Minocha from the Dept. of Computer Science & Engineering, G L Bajaj Institute of Technology and Management, Greater Noida also delivered an online session.

There were 61 participants mainly UG 2nd year and 3rd year

students from the Department of Food Engineering & Technology. Certificates to the participants and experts were given during the valedictory session by worthy Director Prof. Shailendra Jain. Dr. Manminder Singh and Er. Rahul Gautam coordinated the course.



Expert Talk on "Recent Trends in Semiconductors and Electronics"

An expert talk on "Recent Trends in Semiconductors and Electronics" was organized on 24 January, 2023 by Electronics & Communication Department of SLIET, Longowal. Prof H S

Jatana, Hub Centre, PGI Chandigarh was the Resource Person of the event and Prof. J S Ubhi was the coordinator of the event. The main objective of the talk was to talk covers wide spectrum of semiconductors being researched and used in various applications besides Silicon. A range of compound semiconductors like GaN, SiC, GaAs etc has become popular during the last over 15 years. Their characteristics and applications are discussed. CMOS being the driving force of Electronics today, the current technology level and status, the future novelty devices and issues will also be talked about.



It was attended by 13 Faculty/ Staff members and 96 students (RS/PG/UG) of ECE department. Prof. H S Jatana also highlighted the research challenges in Low Power VLSI Design and interacted separately with Research Scholars of ECE department.



IICHe-SLIET launched a series of talks with experts

IICHe-SLIET launched a series of talks with experts on how to crack the GATE exam. The first talk was held on March 20th, 2023, in LCF 1 and featured an alumnus named Mr. Jagat Singh. He was a student of the GCT15 batch and scored AIR 549 in GATE 2019 exam.



The event "GATEway to BRILLIANT FUTURE" organized by IICHe SLIET was a huge success and very informative where alumni who have successfully cracked the GATE (Graduate Aptitude Test in Engineering) exam shared their strategies and

He covered the topic such as study strategies, exam-taking tips, and ways to maximize performance on the exam and he provide helpful insights to students who are seeking to excel in the GATE exam.



insights on how to effectively prepare for and excel in the GATE exam. The speaker shared tips and techniques related to time management, study materials, exam patterns, mock tests, problem-solving approaches, and stress management.

FACULTY CORNER

Er. Gurcharan Singh Oration award conferred on Prof. Ajat Shatru Arora

Prof. Ajat Shatru Arora Professor (Electrical and Instrumentation Engineering) and Dean (Faculty and Staff Welfare) received the Er. Gurcharan Singh Oration award conferred by Punjab Academy of Sciences during the inaugural function of 26th Punjab Science Congress held at Shri Guru Granth Sahib World University, Fatehgarh sahib on 7th February, 2023 for his achievements and immense contribution in the field of Electrical Engineering.

Born in Amroha, Uttar Pradesh on 27th April, 1969 Prof. Arora has devoted his entire life to Engineering and Science. He is an alumnus of IIT, Roorkee and has served SLIET, Longowal for last 30 Years. He has served DAV Institute of Engineering and Technology as Principal. Prof. Arora has worked extensively in the field of Biomedical Engineering. His area of focus varies from development and analysis of hand prosthesis to infrared thermograph of the human

body to detect various ailments. His specialisation also includes energy management and microprocessor based systems. Dr. Arora has completed various research projects and has published over 100 research papers in reputed journals and conferences. Team SLIET congratulates Prof. Arora for receiving this prestigious award.



Patent Granted

A patent “**A process for the Removal of Phenol using Green Emulsion Liquid membrane**”

has been granted by Indian Patent Office and recorded in the register of Patent as Patent No.: 419246 on 25.01.2023. The inventors are Dr. Anil Kumar, Guest faculty (Chemical Engg.), Dr. Avinash Thakur professor (Chemical Engg.) and Dr. Parmjit Singh Panesar, Professor (Food Engineering and Technology).



Two marathons run by Dr. Sanjeev Kumar Garg

Having craved for running and keeping up the spirit of "Fit India Movement", Dr. Sanjeev Kumar Garg, Associate Prof. (M&H) won finisher's medal in Tata Mumbai Marathon 2023 on 15th Jan. 2023 and another finisher's medal in Bathinda Half Marathon, Bathinda on 19th March, 2023 21.1 Kilometers category. He completed the half marathon in 2 Hours and 13 Minutes (Tata Mumbai Marathon) and 2 Hours and 14 Minutes (Bathinda Half Marathon).



NSS/NCC CORNER

STUDY TRIP OF SCHOOL STUDENTS TO SLIET COORDINATED BY TEAM NSS

As per initiative by Govt. of Punjab regarding Study Tour of the Govt. school students for exposure to Higher Education Institutes, SLIET has hosted 63 schools from various villages of Districts of Barnala, Mansa and Sangrur from Feb. 07 to Feb. 16, 2023. Activities (For exposure) undertaken for school students by SLIET:

- **Interaction Sessions:**
 - o Career Awareness after 10th class.
 - o Motivation for academics, innovation, patriotism, humanity
 - o Higher Education and career opportunities
- **Campus Tour (Academic/ Non-academic facilities)**
- **Laboratories Tours**
- **Classrooms culture**
- **Sports and fitness**
- **Recreational**
- **Hostel Living & Mess Dining**

An appreciable number of students (Total 1384 students) visited SLIET under this programme. The whole programme was coordinated by Team NSS of SLIET.



INAUGURAL CEREMONY OF PROJECT Rⁿ (NSS)

Inaugural ceremony of Project Rⁿ, an initiative taken by NSS SLIET to impart the delegative qualities in the students of the institute, hence enhancing their personality, leadership and debating qualities was held on 28th of March, 2023 in the ISTE HALL. It was coordinated by Er. Divesh Bharti (Project Coordinator) and the team Project Rⁿ. The event began with Deep Prajwalan followed by Kulgeet. After an overview on the project, Dr. Gulshan Kumar Jawa (Chairman, NSS SLIET) and Dr. Rajesh Kumar (Dean SW) addressed the audience. To trigger the importance of general awareness in the students, an oral quiz was conducted and the students who successfully answered the questions were awarded with goodies. The program ended with National Anthem.



**TRAINING AND PLACEMENT CORNER**

During January to March 2023 following activities were conducted by the Department of Training and Placement of the Institute.

- Campus Placement activities**

Under able guidance of Prof. Shailendra Jain, Director, SLIET, department of Training and Placement successfully conducted the virtual hiring process of different corporates for the batch 2019-2023 students as per the table given.

S.No	NAME OF THE COMPANY	NO. OF SELECTED STUDENTS
1	TATA CONSULTANCY SERVICES LIMITED	10
2	DEALERMATIX TECHNOLOGIES PRIVATE LIMITED	05
3	IOL CHEMICALS AND PHARMACEUTICALS LIMITED, BARNALA	08
4	JSW GROUP	15
5	HINDUSTAN UNILEVER LIMITED	02
6	BOOKING KOALA, LLC	01
7	GRASIM INDUSTRIES LIMITED (BIRLA PAINTS DIVISION)	01
8	GEE LIMITED	02
9	YASH PAKKA LIMITED	06
10	GODREJ & BOYCE MFG. CO. LTD., MUMBAI	04
11	JSW VALLABH TINPLATE PRIVATE LIMITED	09
12	JINDAL SAW LIMITED, GUJARAT	09
13	VARDHMAN TEXTILES LIMITED	07
14	HIND RECTIFIERS LTD, MUMBAI	02
15	HCL TECHNOLOGIES	09



Photo With Team of IOL Chemicals And Pharmaceuticals Limited, Barnala During Placement Drive



Photo with Team of Yash Pakka Limited During Placement Drive



Photo with Team of GEE Limited During Placement Drive

- Industrial Visit**

Department of Training and Placement organized an Industrial Visit to Godrej & Boyce Mfg. Co. Ltd. Appliance Mohali Plant on 28th March 2023 for 3rd year B.E. (Mechanical Engineering) students for the purpose of Training and Placement opportunities in Godrej & Boyce Mfg. Co. Ltd.

- MOU Signed**

Department of Training and Placement of the Institute signed the MOU with Edunet Foundation, Gurgaon, India on date 17/03/2023 for SLIET students Internship/Training/Placement facilities.



**STUDENT/ALUMNI CORNER****SLIET Organised Annual Technical Event 'techFEST' 23'
(Theme 'INNOVATION IN AGRICULTURE')**

The inauguration of techFEST '23', a two-day annual technical event of the SLIET, Longowal, took place on 24th March 2024 at ISTE Hall. It began with traditional "Deep Prajwalan" followed by 'Sansthan Kulgeet'. The Hon'ble Chief Guest, **Prof. Sehijpal Singh**, Principal of Guru Nanak Dev College of Engineering, Ludhiana, Director SLIET, **Prof. Shailendra Jain**, Dean Academics **Prof. Jaspreet Singh Dhillon**, Dean Student Welfare **Prof. Rajesh Kumar**, and the Chairman of tech FEST'23 Prof. Shankar Singh were present along with Vice Chairmen Dr Charanjiv Gupta and Dr. Sunil Kumar.

The theme of techFEST'23 was 'INNOVATION IN AGRICULTURE'. This theme has been chosen amidst the global challenges facing the world which have affected the sustainability of food and agricultural systems. Emerging technologies from drones to digitalization have the potential to transform agricultural productivity, reduce environmental influence and increase farmers' incomes. Technological advancements in the agriculture sector are focussing to meet the growing demand for farm automation, digitalization, and sustainability. Smart farming is an upcoming concept that will deploy technologies like the Internet of Things (IoT), computer vision, and artificial intelligence (AI) for farming. Robots and drones are accelerating farm automation by replacing manual farm operations such as picking fruits, killing weeds, or water spraying.



The festival had total eight domains (namely Mechanics, Robozone, Chemfor, Electrica, Genesis, Plexus, Kermis, Karyarachna) with 29 events in two days. The students came up with innovative solutions to the challenges being faced by the agriculture sector. It inspired the participants to innovate and integrate their ideas into practical applications. Few major highlights of the event included coding competitions, technical quizzes, and robotics competitions. Seminars and workshops by industry experts



were also arranged as pre-fest activities. A movie show in the institute auditorium was also held to entertain and inspire the students as a part of pre-fest activities. There was a laser show by Srisha Creations, Bengaluru on 24th/25th March 2023. All the Faculty Conveners and their team, Student's Core Committee, Domain Coordinators, Student Coordinators, and Volunteers put up hard work and perseverance, that paid off in successful completion of techFEST'23.

National Science Week 2023 organized by Science Club

Science Club of Institute organized National Science Week 2023 in the Institute during 23-25 Feb. 2023 to commemorate the Nobel discovery of Raman Effect by the great Indian Physicist Sir C. V. Raman. More than 500 SLIET students participated in several science awareness programmes and competition such as multimedia quiz, science treasure hunt, debate, model exhibition, poster and paper presentation, and a scientific skit.

On 25th Feb. 2023 students from neighbouring schools participated in the scientific model exhibition competition. About various working models and non-working models on different themes were displayed by school students. Top three participants of Working Model Category were given Cash prize of Rupees 5,000/-; Rs. 3,000/- and Rs. 2,000/- respectively whereas, in Non-Working Model Category Cash prize of Rupees Rs. 3000/- and Rs. 2000/- were given to 2nd and 3rd models respectively in addition to mementos and citations. Some consolation prizes were also given to students. A popular science lecture & demonstration of fundamentals related to Physics, chemistry and mathematics was delivered by Shiksha Ratan Dr. Jaswinder Singh, State & National Awardee from Govt. School, Patiala. More than 600 students and teachers were benefited through this lecture.

Prof. Shailendra Jain, Director of the institute was the chief guest of the inaugural function. Prof. A S Arora Dean (FSW) graced the occasion as Guest of Honour. The whole event was coordinated by Prof. M. M. Sinha, Convenor of the National Science Week & faculty advisor of Science club.

The Chief guest and the Guest of Honour lauded efforts of the organizers for inculcating aspiration among students towards knowledge by harnessing their talent to innovate and create. Director Prof. Shailendra Jain hoped that such scientific awareness contests will benefit the students and would be catalyst to their ability in recognising and harnessing potential. Prof. R K Guha proposed the vote of thanks.





Inter-Hostel Chess Tournament

A chess tournament was held between Boy's hostel-07 and Boy's hostel-08. The tournament was played to improve the relationship between students and to motivate them to participate in different cultural activities. The event was coordinated by Dr. Vivek Kumar (Warden BH-07), Er. Divesh Bharti (Warden BH-07), Er. Sumit Kumar (Warden BH-08), Er. Rahul Gautam (Warden BH-08), Sh. Narender Garg (Care Taker BH-07&BH-08) and members of sports committees of BH-07 and BH-08.

On 10th October'22, the first round was played between 16 players out of which 8 qualified for quarter-finals. On the same day, quarter-finals were held. On 11th and 12th October'22 semi-finals were held between the winners of the quarter-



finalists. The finals took place on the same day between Abhishek [BH-07] and Abhiresh Ray [BH-08].

The winner of the chess tournament was Abhiresh Ray of Boy's Hostel-08.

SPL (SLIET Premier League)-2023

The day started with the inauguration ceremony conducted in the main stadium, by honourable Dean (SW) Prof. Rajesh Kumar and Chief Warden(BH) Dr.Indraj Singh in the presence of Dr. Yogesh Kapil(Faculty Advisor Happy Club), Prof. RK Guha, Er. Sumit Kumar, Er. Rahul Gautam, Er. Kuldeep Singh, Er. DiveshBharti and all the team members. A total of 18 teams registered for the tournament. Total 19 matches were played during the tournament. On the 3rd & last day of the event, the finale was played between the teams POWER 11 and "POWER HITTER", in which the team POWER HITTER (captain, Abhinav Thakur) won the match.

In the prize distribution ceremony on 2/02/2023, team POWER HITTER, the winning team of the event SLIET PREMIER LEAGUE was awarded a trophy and a cash prize of ₹2000, by Our honorable Dean (SW) Prof. Rajesh Kumar in the presence of Dr. Yogesh Kapil (faculty advisor Happy Club), Er. Kuldeep Singh and Er. Rahul Gautam. Medals were given to all the players of the winning team. Mr.Kishlay Kumar (best batsman, team Power Hitters) and Himanshu Jangir (best bowler, team Power 11) were also given medals. Mr. Ritik Kumar (vice president of the Happy Club) proposed vote of thanks.



OTHER ACHIEVEMENTS BY STUDENTS

- List of GATE-qualified students as on 23.03.2023

Sl.No.	Name of student	Registration No.
1	Yogeesh N	PGPHY- 2150366
2	Harini S Rao	PGPHY- 2150360

- Physics Research Scholar, Mr. Ankit Kumar attended TYC 6th Energy Materials workshop: Modelling Energy Interfaces held during Dec 14-16, 2022 at London, United Kingdom and 14th Annual International Workshop on Advanced Materials held during Feb 19-21, 2023 at Ras Al Khaimah, United Arab Emirates
- Physics Research Scholar, Mr. Ankit Kumar delivered an Invited Talk on National Science Day at University College, Barnala, affiliated to Punjabi University, Patiala on 2nd March 2023.
- Mr. Nikhil Kumar, M.Sc.-22 (Regd. No. PHY-2263014) student delivered an invited talk on, "Motivation for research & exploration of world" in a one day seminar on "Career opportunities in Physics" organized by SD College Barnala on 13th March 2023.
- Ms. ShaliniBhattachary, M.Sc.-22 (Regd. No. PHY-2263012) has been selected to participate in a two-day pre-IPSC workshop on Planetary Sciences and Exploration: going beyond taking place on 20-21 March 2023 with all financial help from the organizers.
- Mr. Nikhil Kumar, M.Sc.-22 (Regd. No. PHY-2263014) has been selected in prestigious Summer Research Fellowship Programme (SRFP)-2023 a flagship program of Indian Academy of Science (IAS) Bangalore, Indian national Academy of Sciences (INSA) New Delhi and The National Academy of Sciences, India (NAS) Allahabad to work with Prof. Ashok Kumar Verma, BARC Bombay during June-July 2023.
- Mr. Nikhil Kumar, M.Sc.-22 (Regd. No. PHY-2263014) has been selected to attend the one-week International workshop on Nano-Materials using Machine Learning and SIESTA (NMM-2023) to be held at Govt. PG College Bilaspur (HP) during 14th to 19th April, 2023.



From Page-1 (Chit-Chat Corner)

- iii. Fully funded by central government with deemed-to-be-university status,
- iv. Well integrated with national-level institutes by offering entry in 4-year degree programmes (since 2014).
- v. Affordable fee structure suitable for all strata of society
- vi. The educational programmes of SLIET are innovative, practical and contain all aspects of National Education Policy 2020
- vii. Ideal education environment, with excellent unmatched infrastructure, lush green campus with natural beauty,
- viii. Fully residential campus, well qualified faculty and staff.

I strongly believe that SLIET has the capability to achieve newer heights in future.

ANSHUMAT Q.3: Anything you feel SLIET could have been done better?

Director: Every leading institution has its own evolution period with ups & downs. I feel till date journey of SLIET is its evolution period. Today, SLIET has reached to a position to start delivering as expected. SLIET could do better in skill development with its unique concept, which is currently in re-structuring phase. Developing an eco-system of need-based research and consultancy, owing to its excellent expert faculty, could be another. All this will help in projecting itself at national map, better NIRF ranking, and NAAC/NBA accreditation.

ANSHUMAT Q.4: What do you think are some of the challenges being faced by SLIET while trying to be in the league of top Engineering Institutions in the country?

Director: Effective leadership, stable governance, rural location, availability of education in urban areas, social stigma to earn graduation degree rather than skill, lack of ownership etc. were a few challenges SLIET has faced. In spite of 33 years old CFTI, lack of status "Institute of National Importance (INI)", like NITs/IIITs posed challenges on its branding.

ANSHUMAT Q.5: SLIET has been performing low in various rankings including NIRF for some years now. What plans the Institute has, to regain its glory?

Director: Honest efforts to achieve objectives and parameters of ranking/accreditation are more important, which automatically result in good ranking. Focused efforts towards a few important points shall help to regain its glory -

- i. Strengthening its unique mandate through re-structuring of ICD programs with more emphasis on practical/skill,
- ii. Development of an eco-system for focused research such as "Technology for Agriculture", adopted recently as one of the focus area,
- iii. Focused emphasis on innovation, incubation and entrepreneurship activities,
- iv. To become multi-disciplinary institute under Category-II (i.e. Teaching Intensive University)

ANSHUMAT Q.6: What are the major challenges for SLIET in the next five years?

Director: Major challenges in today's scenario are -

- I. Implementation of multi-entry, multi-exit modular pattern in true spirit (i.e. with acceptability of exit option in practice)

- ii. Improving admission statistics keeping in view the alternatives available with aspirants amid rising number of technical institute in urban areas.
- iii. Improving skill and hence employability of its core courses i.e. ICD programs
- iv. To expand its wings, to explore possibilities of National Education Policy NEP-2020.
- v. To make it residential in true spirit for utilizing full potential of all.

ANSHUMAT Q.7: What are your suggestions, to integrate quality at all levels of education/Research in SLIET?

Director: I believe, following points may help to integrate quality at all levels -

- i. Departments shall develop course specific Centre of Excellence/Skill Based Training Centre
- ii. Liaison with industries for teaching specific courses, On the Job Training (OJT) and subsequent placement.
- iii. Fix achievable targets and put honest efforts to achieve them.
- iv. Promotion of research and consultancy activities
- v. Strengthen Alumni interaction for student mentoring and placement,
- vi. Strengthening student counselling/mentoring system
- vii. Proactive involvement of all for the cause of their being in the institute.

ANSHUMAT Q.8: Institute added a few feathers in its cap such as NBA Accreditation of all UG Programs, Awards by reputed agencies such as IE (I) and NITTTR Chandigarh. Would you please share some of the initiatives taken by you that gave good impetus in this direction?

Director: A good work culture, team work, motivated employees are the key parameters for the success of any institute/organisation. I have tried to create the same in the institute. I believe, you can throw light on some of the initiatives taken.

ANSHUMAT: Yes, sir. A few noticeable initiatives taken in the recent past, ensured all-round growth of the institute:

1. Start of 'ANSHUMAT' Quarterly Newsletter of SLIET to upkeep record of activities conducted.
2. Introduction of Tutor Guardian and Student Mentor Scheme (TG/SMS) for strengthening student counselling system (multi-layer) for effective connect.
3. Introduction of EAA (Extra Academic Activity) for the holistic development of students.
4. Awards for the Meritorious students to promote competitiveness.
5. Holistic development of students through enhanced Student's Club Activities.
6. Incentives for participation in Sports and Other Technical Activities.
7. Conduction of theme based Technical and Cultural and Social Festivals.
8. Start Celebration of Foundation Day of the Institute, to showcase our achievements and promotion of belongingness.
9. NBA accreditation of all 7 UG programs.



10. Installation of 1 MW Roof Top Solar Power Plant to Promote GREEN Energy.
11. Conduction of litigation free/transparent recruitment/promotion of teaching/non-teaching staff.
12. Establishment of IPR cell to promote patents and copyrights.
13. Increase outreach, inclusivity and collaborations through MoUs.
14. Strengthening of Internal Audit Cell to streamline the system.
15. Observation of "No Motor Vehicle Day" and "Natural Light Day" for value addition and support "Fit India Movement" and "Save Environment."
16. Bagged TEQIP-III resulted in following-
 - a. Mentoring of NIT Uttarakhand under twinning arrangement.
 - b. Development of Central Computing Facility with 108 computes.
 - c. Development of multi-disciplinary research centres
 - d. Development Centre for Automation for training/research
17. Conceptualisation of War Room to set targets and its execution strategies
18. Student Solar Ambassador Workshop-2019 a first in the institute.
19. Financial support to Theme Based Students Projects, to promote experiential learning.
20. Initiation of SLIET Quality Publication Award (SQPA) and SLIET Research Project Awards (SRPA) to promote research environment.
21. Various initiatives to make Institute safe and secure place for students/ faculty/ residents during COVID-19.
22. Separation of Technical and Cultural Festivals, to bring quality participation in both.
23. Addition of Smart Classrooms in every academic block.
24. Renovation of Hostel for quality student life.
25. Development of Seating Arena and Renovation of Library Reading Room to attract students towards Library.
26. Excellence awards for faculty/staff instituted in different categories.
27. To invite Hon'ble Governor as Chief Guest of Annual Convocation, 1st time in 2019, in the history of SLIET and 2nd time in 2022.
28. Introduction of ERP for automation of academic activities,

29. Introduction of Computer Based Test (CBT) for admission,
30. Engagement of part time sports coaches to promote sports and fitness

The outcome is witnessed as -

31. SLIET adorned with Outstanding Institution Award (Engineering College Category) for the year 2021, in the Northern Region.
32. SLIET has been awarded '**Certificate of Appreciation**' for prestigious IE (I) - Engineering Education Excellence Award – 2022.

ANSHUMAT Q.9: All the technical Institutes in the country are in the competition with each other for getting the best ranks ranking either on a global or the national level. Do you think that it is promoting or hampering the quality of technical education in India?

Director: In my opinion it provides an opportunity to introspect, emphasize and improve its core strengths to be an ideal educational institute, as per its mandate. Honest efforts to achieve objectives and parameters of ranking/accreditation, will automatically ensure your identity and existence.

ANSHUMAT Q.10: What is your advice to SLIET students?

Director: I persuade the students to:

- Enjoy your learning and make effective use of campus life,
- Identify and act as per your strength, accept and improve your weakness,
- Set your goals and put honest efforts to achieve the same,
- Come out of your comfort zone,
- Set targets/challenges and experiment to fulfil them,
- Make yourself skilled so as to be employable,
- Focus on your professional development,
- Keep yourself updated on Technology/ innovations,
- Improve your soft skills.
- Think positive,
- Learn from your mistakes.

धैर्य के साथ प्रयास करें, समय आने पर आपको आपकी मंजिल अवश्य मिलेगी

ANSHUMAT : Thank you so much Sir, for sparing a few moments from your busy schedule to have this valuable session with ANSHUMAT and speaking your mind on the issues relevant to growth of SLIET.

"PROUD TO BE PART OF TEAM SLIET"

Team 'ANSHUMAT'

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