

Sant Longowal Institute of Engineering and Technology

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

Sangrur, Punjab -148106



SRIJAN 2021

सृजन

ANNUAL MAGAZINE
OF SLIET



THE EDITORIAL BOARD



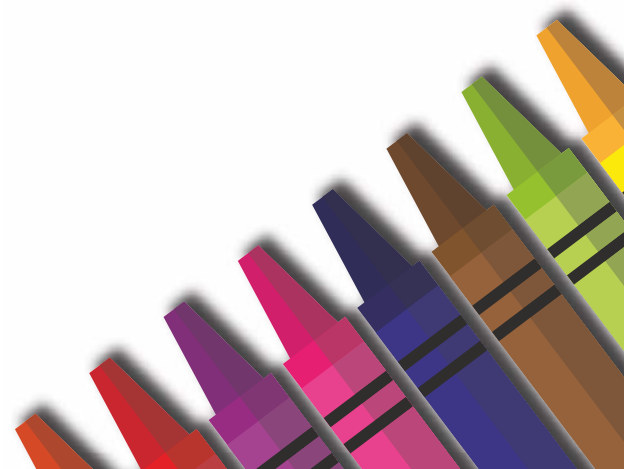
 **SANT LONGOWAL INSTITUTE OF ENGINEERING & TECHNOLOGY, LONGOWAL** 
MAGAZINE & PROFILE COMMITTEE 2021-22

SLIET
संत लॉगोवाल अभियांत्रिकी एवं प्रौद्योगिकी संस्थान
(शिक्षण, प्रशासन, चारुता, उत्कृष्टता, समानता, विद्यार्थी-केंद्रित)
लॉगोवाल, पंजाब - 148206



01 L to R:- Dr. Pawan Kumar (Member), Dr. Sanjeev Kumar Garg (Chairman, Magazine Committee), Dr. Rajesh Kumar (Dean, Student Welfare), Dr. Shailendra Jain (Director, SLIET),
Dr. J.S. Dhillon (Dean, Academics), Dr. Mandeep Ghai (Member), Mr. Manminder Singh (Member)
02 L to R:- Guddu Kumar, Khushi Singh, Mudita Sinha, Vaibhav Nagargoje, Soham Das, Anamika Yadav, Chandni, Prashant Shahi

SLIET PHOTO STUDIO, LONGOWAL #98157-23222





SRIJAN 2021

सृजन SLIET'S ANNUAL MAGAZINE

Team SRIJAN



PATRON

Dr. Shailendra Jain (Director)

ADVISOR

Dr. Rajesh Kumar (Dean - SW)

Chairman Magazine Committee

Dr. Sanjeev Kumar Garg

Members Magazine Committee

Shri Anuj Bansal

Dr. Manminder Singh

Dr. Pawan Kumar

Dr. Mandeep Ghai

The Student Team

Chief Student Editor

Vaibhav Nagargoje

Deputy Student Editor

Khushi Singh

Editor - English Section

Anamika Yadav

Editor - Punjabi Section

Chandni Singla

Chief Designer

Soham Das

Co-Designer

Guddu Kumar

Editor - Hindi Section

Mudita Sinha

Editor - Technical Section

Prashant Shahi

The Institute photographs are shot by **Team Sviesa- The PMC, SLIET**

Proud to be part of Team SLIET
" Together We Can Make a Difference "

From Director's Desk



Dr. Shailendra Jain

Sant Longowal Institute of Engineering & Technology (SLIET), Longowal, Punjab (Deemed University) firmly believes that objective of education is not only the academic excellence but also inclusive personality build-up of students. Hence the focus is oriented not only to the academic but also to the extra and co-curricular activities.



As reflected in our motto "Proud to be part of Team SLIET, I feel elated as a head of this esteemed institution that whole of the Team SLIET including administration, faculty and staff are dedicated to the holistic upbringing of the young budding engineers of this great nation.

Dear students the ultimate intent of the SLIET is to train you people to enable you to live by your values subsequently strengthening the character which eventually leads to self esteem, maturity in every walk of life, wisdom in the decisions you make and the promptness to accept responsibility besides equipping you with the indispensable technical skills you must possess to further enhance your career prospectus. Keeping this pursuit in mind, as one of our myriad of activities, SLIET brings out its annual magazine "SRIJAN" to exhibit your hidden literary talent .

I express my heartfelt appreciation to the Team 'SRIJAN' including its editorial board for striving persistently to bring out this annual publication of SLIET despite the onslaught of the pandemic .

Always keep in mind TEAM SLIET believe in

“DUTY First, NATION First”

“ पहले कर्तव्य फिर अधिकार ”

Wish you all the best

Prof. Shailendra Jain



From the Desk of Dean (Academics)



Prof. J .S. Dhillon

The extracurricular activities are essential gradients of personality development activities in an institute providing professional education. Annual magazine of such an institute provides an ideal platform to its students to showcase their talent in an area not covered during their academic pursuit. For SLIETIANS 'SRIJAN' provides means to speak their mind in the various languages to showcase their technical or non-technical writing skills. The magazine also boosts the team spirit which gets evolved during the process of bringing up such a publication which mirrors the talent of the would be technocrats of the Institute.

I understand that bringing out any document to convey the feeling of others is an art and Team SRIJAN especially the students must have put great effort to bring out this year's SRIJAN. I wish Dr. Sanjeev Garg, Chairman (Magazine Committee) and the whole Team SRIJAN all the best from the core of my heart and congratulate the team for their team work and great effort.



**" Proud To Be Part of Team SLIET"
"Together We Can Make A Difference"**

Prof. J .S. Dhillon

From the Desk of Dean (Student Welfare)



Prof. Rajesh Kumar

I commend the Editorial team and contributors for bringing out yet another issue of the magazine "SRIJAN". In addition to securing an academic qualification, active participation in extracurricular activities would become a value addition for a student. SRIJAN is a platform for all the students to display their talent, innovative skills, thoughts, ideas, and emotions in a free, frank, and fearless but in a civilized manner. Importance of this platform has increased many folds in the pandemic time. I appeal to all the students to show their creations and make a step to express themselves through this magazine.

Bringing a new issue of the magazine requires a lot of hard work and devotion of time. The efforts made by Editor-in-Chief, Dr. Sanjeev Kumar Garg, and the Editorial team in publishing this issue is appreciated. They have a challenge ahead to make "SRIJAN" even better.



"PROUD TO BE PART OF TEAM SLIET"

Prof. Rajesh Kumar

From the desk of Dean (Faculty and Staff welfare)



Prof. Ajat Shatru Arora

Sant Longowal Institute of Engineering and Technology, Longowal, has always intended to be a unique Institute with its unique modular academic system giving opportunity to almost every component of the modern society to cherish the academic dreams and accomplish them with flying colours. It can be humbly claimed that SLIET has contributed to the professionalism of the technical education and tried its best to meet the industry requirements through its ceaseless efforts of continuous improvement in its academics and other co-curricular activities. The institute can virtually be termed as a modern 'Gurukul' for the budding engineers of India. As the improvement is a process without any end, hence we will continue to do so in the years ahead to make it a Technical Institute par excellence.



I am glad to know that Sant Longowal Institute of Engineering and Technology, Longowal, is going to publish annual Institute magazine SRIJAN for the year 2021. 'SRIJAN' is an appropriate platform which could be perfectly employed to showcase the hidden talent and flair for innovative and creative writing in addition to reflect the technical knowledge our students possess. I hope the magazine will be quite informative, entertaining, mirror of the Institute activities and fond memories and resourceful. On this occasion, I convey my sincerest and best wishes to the Director, Faculty Staff, students in general and to Dr. Sanjeev Kumar Garg and his team engaged in bringing out this edition of SRIJAN in particular. I take this opportunity to congratulate Team SLIET who has successfully contributed to the success of this magazine either in the form of articles or suggestions or in any direct or indirect way.

"PROUD TO BE PART OF TEAM SLIET"

Prof. Ajat Shatru Arora



From the Desk of Dean (Research & Consultancy)

Sant Longowal Institute of Engineering & Technology has etched a unique niche in the technical, scientific and management forum of country. SLIET has always persevered to be distinctive singular novel institute with its unique standard educational system giving chance to virtually each element of the trendy society to fulfil the educational dreams and achieve them with flying colours.

I am immensely pleased to know that SLIET is going to publish annual institute magazine SRIJAN for the year 2021. SRIJAN could be a best platform that might be best utilized to showcase the hidden talent, aptitude for innovative and inventive writing in addition to mirror the technical skills our students possess. I hope that the magazine will be quite informative and will showcase the institute activities and achievements.

I Congratulate Dr. Sanjeev Kumar Garg and his team for the same and wish them all the best for this wonderful endeavour.



"PROUD TO BE PART OF TEAM SLIET"

Prof. A. S. Dhaliwal



From the Desk of Dean (Planning & Development)



Sant Longowal Institute of Engineering & Technology (SLIET) has etched a distinct segment within the technical, scientific and management forum of country.

SLIET has continuously meant to be distinctive singular novel institute with its unique standard educational system giving chance to virtually each element of the trendy society to fulfil the educational dreams and achieve them with flying colours. I am immensely pleased to know that SLIET is going to publish its annual institute magazine 'SRIJAN'. It could be a best platform that might be best utilized to showcase the hidden talent, aptitude for innovative and inventive writing in addition to mirror the technical data our students possess. I hope that the magazine will be quite informative and will act as mirror of the institute activities and fond reminiscences.

I congratulate team 'SRIJAN' for the same and wish them all the best.



Prof. P.S. Panesar

From the Desk of Registrar SLIET



Prof. Harish Kumar Chopra

Extracurricular activities are a significant part of personality development. SLIET annual magazine 'SRIJAN' provides an ideal opportunity to its students to display their literary skills. 'SRIJAN' provides perfect means for the students to speak their mind in various languages to showcase their technical and non-technical writing skills. The magazine also uplifts the team spirit which gets evolved during the gigantic task of bringing up such a publication which reflects the talent of the budding engineers of this nation.

I believe that bringing out such an important publication is an art and Team SRIJAN must have put great efforts to bring this issue. I wish Team 'SRIJAN' all the best from the bottom of my heart and extend my warmest congratulations for the persistent effort and dedication to bring out this issue of SRIJAN.

"PROUD TO BE PART OF TEAM SLIET"



Prof. Harish Kumar chopra

From the Desk of Chairman (Magazine Committee)



Dr. Sanjeev Kumar Garg

It gives me an immense happiness and contentment to finally present before you the current edition of Institute annual magazine 'SRIJAN'. The distinguishing feature of great engineering institution is to provide quality technical education to its students. It comprises augmentation of skills and taking the individual to a soaring level of excellence, innovation, ability to practically apply technical expertise leading to inclusive development and growth of an individual so as to contribute towards making India a developed economy as envisaged by former president Dr. A. P.J. Abdul Kalam in pursuit of the same, just like the milk is churned to precipitate the best of it, 'SRIJAN' tends to churn out creativity and innovation from the skills possessed by the young students of SLIET.



The team SRIJAN has left no stone unturned to make this issue of the magazine a unique one. We are sure that each of you will enjoy while going through its pages reflecting the hidden talent of our students and manifesting the achievements of SLIETIANS. One of the best things about 'SRIJAN' is that it showcases the inventive and imaginative aptitude of SLIET students to an appreciable extent something that we need to reconnect with. ***Amidst this pandemic and attending online classes of various courses staring at computer or mobile screen with minor and major examinations, projects, worksheets and assignments et al that forces you sometimes to bang your head on the brick wall and miss all other recreational and simpler things that an individual can aptly do, the activities that one could have been glad of, that can give one an inexplicable delight.*** 'SRIJAN' successfully extracts that nimbleness to do such small things. The present edition of the magazine encompasses poetry, anecdotes, technical and non-technical articles amongst a host of other creativities of the students of SLIET. Finally, we the team SRIJAN wish to thank Honourable Director Prof. Shaindera Jain, Deans, Registrar, faculty, staff and all the students, from the bottom of our hearts for the continued support for the publication of 'SRIJAN' which transforms it into a distinctive compendium exhibiting the flair for writing of the SLIETIANS.

**'PROUD TO BE PART OF TEAM SLIET'
'TOGETHER WE CAN MAKE A DIFFERENCE'**

Dr Sanjeev Kr Garg

STRIDES TAKEN BY SLIET DURING TENURE OF PROF. SHAILENDRA JAIN

Our dynamic and young Director Prof. Shailendra Jain joined SLIET on 3rd Nov. 2017 (On deputation from Maulana Azad NIT, Bhopal, Where he is Professor of Electrical Engineering). Since the day Prof. Shailendra Jain joined as Director, SLIET has taken remarkable steps towards becoming a prestigious and reputed Institute of Excellence. The list of the achievement that SLIET has achieved during his tenure is inexhaustible. Some of the feats reached during the period are:

1. **Introduction of EAA (Extra Academic Activity) for the holistic development of students.**
2. **Awards for the Meritorious students to promote competitiveness.**
3. **Celebration of 33rd Foundation Day on 20th Dec, 2021 a first in the history of Institute, to showcase our achievements and promotion of belongingness.**
4. **Installation of 1 MW Roof Top Solar Power Plant to Promote GREEN Energy.**
5. **Start of 'ANSHUMAT' Quarterly Newsletter of SLIET, initiated in April 2018 (Vol. V, issue-1 published)**
6. **Recruitment of 11 new Assistant Professors and other administrative staff.**
7. **Tutor Guardian and Student Mentor scheme for effective student connect.**
8. **Establishment of IPR cell to promote patents and copyrights.**
9. **NBA accreditation of all 7 UG programs.**
10. **Signing of MoUs to strengthen Collaboration and outreach.**
11. **Strengthening of Internal Audit Cell to streamline the system.**
12. **Observing of "No Motor Vehicle Day" and "Natural Light Day" in line with spirit of "Fit India Movement and Save Environment."**
13. **Student Team "Future Footprints" won Grand Finale of Smart India Hackathon 2018 (Hardware Edition).**





14. Promotion of Students Activities through Student Clubs.
15. 1st Edition of The National Level Social Festival (Social Fest).
16. Central Computing Facility commissioned in Mechanical Engineering Block under TEQIP-III with 108 computes.
17. Mentoring of NIT Uttarakhand under TEQIP-III.
18. War Room conceptualized to prepare strategies to make SLIET 'Centre of Excellence'.
19. Student Solar Ambassador Workshop-2019 a first in the institute.
20. Financial support to Students for Theme Based Projects.
21. Initiation of SLIET Quality Publication award to promote quality publications.
22. Incentives for Participation in Sports and Other Activities.
23. Various initiatives to make Institute safe and secure place for students/ faculty/ residents during COVID-19.
24. Separation of Technical and Cultural Festivals, to bring quality participation in both.
25. Theme Based Technical Fest Organisation.
26. SLIET adorned with Outstanding Institution Award (Engineering College Category) for the year 2021, in the Northern Region.
27. Addition of Smart Classrooms in every academic block.
28. Renovation of Hostel for quality student life.
29. Development of Seating Arena and Renovation of Library Reading Room to attract students towards Library.
30. Excellence awards for faculty/staff instituted in different categories.
31. 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.

Leadership policy of Prof Shailendra Jain is all inclusive because of his firm belief:

नेतृत्व का उद्देश्य लोगों को सही रास्ता बताना है, हुकूमत करना नहीं'

***** पद का अर्थ है जिम्मेदारी *****



SANT HARCHAND SINGH LONGOWAL

Sant Harchand Singh Longowal was born on January 2, 1932 in Gadarhiani village of district Sangrur, Harchand Singh was the youngest of four sons of a simple farmer Mansa Singh. While his brothers helped till the fields, the quiet Harchand immersed himself in kirtan and religious discourses. At nine, he joined the dera of Sant Jodh Singh. Life at the dera was hard, much like a Buddhist monastery and the inmates were trained in total sublimation of the self. He never gave up his frugal life-style and simple habits. At the dera, he and other inmates learned humility by going out and begging for food.

Harchand Singh soon earned name as a gifted “Ragi” (singer of religious hymns) in “Gurbani” and “Brijbhasha”. And at just 30, he became head priest of the Damdama Sahib Takht, one of the five sacred takhts of the Sikh religion. In 1965, Harchand Singh became the president of the Akali organization in Sangrur district and a member of the working committee of the Shiromani Akali Dal. In July 1975, all the senior Akali leader courted arrest and Harchand Singh





took over the command of the agitation which continued till January 1977. In March 1985, the leadership of the Akali party began to be released from jail under orders from the new Prime Minister Rajiv Gandhi. With a view to improving the situation and creating the conditions for a negotiated settlement of Sikh demands, the Prime Minister's confidante, Arjun Singh who was posted as the Governor of the state, also relaxed the censorship on the Punjabi press, withdrew army control over certain districts, announced his willingness to Institute a judicial enquiry into the November 1984 killings, lifted the ban on the All India Sikh Students Federation and agreed to



review the cases of thousands of Sikhs imprisoned since the army's arrival in Punjab, the previous June. Within a few days, the first 53 were released. A few days later, rally made an effort to address the economic woes of Punjab, with its diminishing acreages and burgeoning unemployment by announcing the establishment of a rail coach factory at Kapurthala, Punjab which would need about 20,000 skilled hands. Then, after weeks of secret negotiations, Harchand Singh Longowal met the Prime Minister in Delhi and on July 23, 1985 signed an 11 point memorandum covering all the major issues which had defied resolution since the Akalis had first presented their list of demands. It was proposed to establish a higher educational institution which will be focused on providing skilled labour to Punjab and the nation. It was a clause for the upliftment of young population of Punjab which lacked professional and technical education. This sowed the seed of the formation of the college Sant Longowal Institute of Engineering and Technology.

Team Srijan

A TRIBUTE TO LATA JI

**“ It was not the external influence that made me a singer.
Music was within me. I was full of it.”**

Lata Mangeshkar was one of the most dynamic personalities of our country as she gave new recognition to the music industry of India. Her contribution in the field of music is beyond words that could never be expressed. She earned several titles like “Nightingale of India”, “Queen of Melody” and “Voice of Millennium” because of her melodious voice.

Lata Mangeshkar has done great deeds and was one of the most legendary Indian Playback singers who began her career in the 1940s. She was born on 28th September 1929 in Indore city. She has not received formal education from any school and never went to college for higher education, though the “Goddess of the music industry” had sung in more than thirty-six languages. She has surpassed all the universities of music in the world.

Early Life:

Her early life was full of poverty, drudgery, and hard luck. She lost her father at the early thirteen which is quite a tender stage of life. After her father's demise, she was the sole breadwinner of her family, so she had to enter the glamor world unwillingly as she mentioned many times.

Career Life:

She started her career in the early 1940s in the field of singing as well as acting for the sake of the survival of her family. She moved to Bombay in 1945 to earn a living for her family and cousins. She played a minor role with her sister Asha in Master Vinayak's first Hindi film “Badi Maa”. Her outstanding performance impressed Master Vinayak, and he signed her as a staff artist.





After Vinayak died in 1948, music director Ghulam Haider mentored her as a singer. He introduced her to producer Sashadhar Mukherjee, who was then working on the movie *Shaheed* (1948), but Mukherjee dismissed her voice as "too thin". An annoyed Haider responded that in coming years producers and directors would "fall at

Lata's feet" and "beg her" to sing in their movies. Haider gave her first major break with the song "Dil Mera Toda, Mujhe Kahin Ka Na Chora"—lyrics by Nazim Panipati—in the movie *Majboor* (1948), which became her first big breakthrough film hit. In an interview on her 84th birthday in 2013, she stated "Ghulam Haider is truly my Godfather. He was the first music director who showed complete faith in my talent."

Awards and Honors:

She won several awards and honors, including the Bharat Ratna, India's highest Civilian Award, Padma Bhushan (1969), Dadasaheb Phalke Award (1989), Maharashtra Bhushan Award (1997), Padma Vibhushan (1999), Zee Cine Award for Lifetime Achievements (1999), NTR National Award (1999), Bharat Ratna (2001), Legion of Honor (2007), ANR National Award (2009), three National Film Awards and 15 Bengal Film Journalists' Association Awards. She also won four Filmfare Best Female Playback Awards. In 1969, she made the unusual gesture of giving up the Filmfare Best Female Playback Award to promote fresh talent. She was later awarded the Filmfare Lifetime Achievement Award in 1993 and Filmfare Special Awards in 1994 and 2004.





A bond with different PMs of India

The most surprising fact is her relation with the first prime minister Pandit Jawahar Lal Nehru and the Contemporary Prime Minister Narendra Modi.

In 1963 on Republic Day, she was singing a patriotic song "Aye Mere Watan Ke Logo", Prime



Minister Pandit Jawaharlal Nehru became over-emotional and tears were tickling on his cheeks. The current Prime Minister Narendra Modi considered her as his sister and used to call her on the occasion of every Raksha Bandhan. This shows her emotional bond from the first Prime Minister to the current Prime Minister.

Eternal Journey:

Due to covid complications and multiple organ failure, she passed away on February 6th, 2022 marking the end of the era. In the funeral ceremony, Prime Minister Narendra Modi arrived to pay tribute to her final journey from "I-Lok" to "Par-Lok". The light of music has gone but she will exist in this world in every heart of all the music lovers.

She had always said that-

"Meri aawaz hi Pehchan hai".

Khushi Singh, GCT/20
Anamika, GCS/19