



# SLIET: GURKUL OF TECH EDUCATION

**A** Gurukul of modern technical education, Sant Longowal Institute of Engineering & Technology (SLIET) was established by the Ministry of Human Resource and Development, Government of India in 1989. A deemed university, SLIET is an autonomous centrally-funded technical institute and runs programmes for awarding certificates, diplomas, undergraduate degrees in various disciplines of engineering and technology, postgraduate degrees in Science, Engineering and Business Administration and doctoral degrees in Sciences, Engineering and Humanities. All the programmes are approved by AICTE/UGC and are accredited by NBA and NAAC. SLIET, thus acts as a nodal centre for developing human resource for catering to the needs of industries (meeting their requirements of skilled workers, supervisors, technicians, engineers and managers), universities (for teaching and research), R&D establishments, motivating and nurturing the youth to serve the Nation.



## Why SLIET?

SLIET's mission is to offer flexible, modular, layered, multipoint entry/exit programmes in various disciplines of Engineering and Technology while simultaneously being embedded within pool of premier national-level institutes offering 4-year degree programmes.

### A Glimpse of SLIET system

- A unique course structure that captures young and brilliant minds for the technical streams after 10th. After two years these students have the option of exit with a Certificate which is equivalent to 10+2, or else, for fulfilling their dreams of continuing education in the institute to

- carve a niche for themselves.
- Life time opportunities to those in industry, institutes, research centers etc to fulfill their dream of joining back in technical education to improve their technical skill and qualification -- age being no bar.
- Well integrated with national-level institutes by offering entry in 4-year degree programmes.
- Offering PG and Ph.D programmes in major disciplines of Engineering and Technology, Basic Sciences, Humanities and Management.
- Flexible system allows admission to various professional programmes after 10th, Certificate, 10+2, Diploma, UG and PG degrees.
- Opportunity for students with disabilities for admission in formal (Certificate and Diploma) and non-formal programmes.

- Affordable fee structure suitable for all strata of society.
- SLIET is running 13 Integrated Certificate-cum-Diploma (ICD), 9 UG, 10 PG, and Ph.D programmes in various Engineering and Technology, Basic Sciences and Humanities and Management disciplines. With its welded modules offered under the same roof with well equipped infrastructure, SLIET has successfully implemented a new paradigm of technical education system.

Dedicated efforts help to raise the bar, to maintain standards and ensure merit.

**First step** in this direction is to ensure transparency in admission and equal opportunity. Entry to SLIET at various levels is as follows:

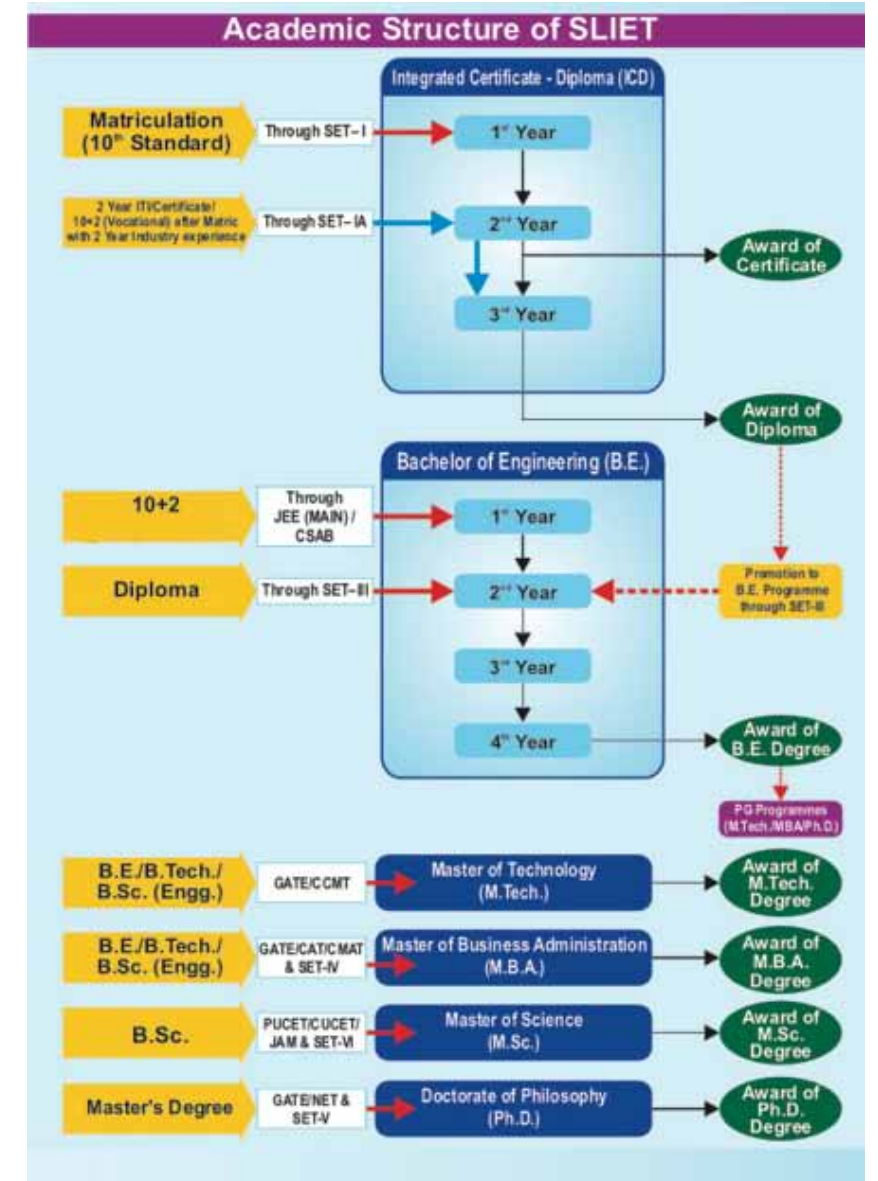
- PhD Admission to ICD (Integrated Certificate-Diploma) programme (3-Yr)

through All India SLIET Entrance Test (SET)-after metric/10th standard exam from a recognized Board/University

- Provision of entry in 2nd year of ICD after ITI/Certificate with two year's industrial experience.
- BE Programme (4-Yr): Admission to BE (1st year) is based on JEE (Main) and counseling through CSAB
- Lateral entry to 2nd year of BE (4-Yr) on the basis of all India Entrance Test (SET) conducted by SLIET.
- M.Tech programme: Admission to M.Tech is through Centralized Counselling (CCMT) for M.Tech/ M.Plan for NITs and CFTIs
- MSc programmes: Admission to MSc is based on PU-CET (PG) Panjab University, Chandigarh, CUCET or JAM.
- MBA programmes: Merit list is prepared on the basis of marks obtained in CAT in the corresponding year or CMAT or GATE qualified followed by GD and interview.
- PhD programmes (Full-time) on the basis of SET and interview conducted by SLIET. Only for GATE/NET qualified candidates.

The educational programmes of SLIET are innovative, practical and contain all aspects of New Education Policy (1986) of Govt. of India. Academic practices such as revision and upgrading of curricula as per industry need, emphasis on in-house and industrial training, total transparency and decentralization of the internal examination system with centralized evaluation system are the inherent features.

The Institute has well-established departments of Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Instrumentation Engineering, Mechanical



Engineering, Civil Engineering, Chemical Engineering and Food Engineering & Technology. In addition, the Institute also has departments of Physics, Chemistry, Mathematics and Management & Humanities. Further, SLIET has implemented MHRD-sponsored scheme

for Integrating Persons with Disabilities in the mainstream of Vocational & Technical Education and has established Department of Disability Studies. Students with disabilities are admitted in formal (Certificate and Diploma) and non-formal programmes. All the

## Departments and Academic Programmes

S. No.	Department	Integrated Certificate Diploma Programme (ICD)	Degree Programme (UG)	Postgraduate Programme (M.Tech & PhD in all departments)
1.	Chemical Engineering	Diploma in Chemical Technology (DCT) -Certificate in paper Technology(CPT)	Chemical Engineering	Chemical Engineering(PG-CE)
2.	Food Engineering and Technology	Diploma in Food Technology (DFT)—Certificate in Food Processing & Preservation (CFP)	Food Technology	Food Engineering & Technology (PG-FET)
3.	Computer Science and Engineering	Diploma in Computer Science & Engineering (DCS)- Certificate in Data Entry & Word Processing (CDE)	Computer Science & Engineering	Computer Science and Engineering (PG-CSE)
4.	Electronics and Communication Engineering	Diploma in Electronics & Communication Engineering (DEC) - Certificate in i) Television Mechanic (CTV), ii) Servicing & Maintenance of Electronic Instruments (CSME)	Electronics & Communication Engineering	Electronics & Communication Engineering (PG-ECE)
5.	Electrical and Instrumentation Engineering	Servicing & Maintenance of Medical Instruments (CSMM) Electrical Engineering (DEE)- Certificate in Electrician (CEN)	Control Engineering Electrical Engineering	Instrumentation and Control Engineering (PG-ICE)
6.	Mechanical Engineering	Mechanical Engineering (DME) Certificate in, i) Welding (CWG), ii) Foundry and Forging (CFF), iii) Tool & Die Technology (CTD), iv) Auto & Farm Equipment Mechanic (CAF), v) Air Conditioning Mechanic (CAC)	Mechanical Engineering (Manufacturing Engineering) Mechanical Engineering (Welding Technology)	Manufacturing Systems Engineering (PG-MSE) Welding and Fabrication (PG-WLF)
7.	Civil Engineering	Civil Engineering (DCE)- Certificate in Building Maintenance (CBM)	Civil Engineering (to be started in 2016)	
8.	Management and Humanities			MBA
9.	Chemistry			MSc (Chemistry)
10.	Physics			MSc (Physics)
11.	Mathematics			MSc (Mathematics)

departments have well-qualified faculty and supporting staff with laboratories equipped with the modern equipment. A modern workshop has also been set up. Exhaustive practical training is imparted to the students to develop their working skills in well-equipped workshops. There are sufficient avenues for channelizing youth energy in extracurricular activities such as: NSS, NCC, industrial visits, educational tours, reading rooms, departmental societies, SPICMACAY chapter, technical & cultural festivals.

### A Perfect Blend of natural beauty and modern infrastructure

Spread over 451 acres, SLIET is blessed with natural beauty and greenery. The refreshing shades create an environment that gives the human spirit true comfort. Rich flora and fauna, diversified plantations make the institute a

living beauty. Live atmosphere enhances the working environment, bringing a humane touch to the surroundings. SLIET plays host to a number of migratory birds, some of the rare species of birds in the world. Dotted with green parks, strolling areas, gymnasium, swimming pool, herbal nursery, a lake with a man-made home for birds, a wetland spreading across 10 acres, the Institute is a mini-paradise extending a warm welcome and symbolizes the 21st century 'Modern Gurukul'.

### Facilities at SLIET

SLIET has self-contained campus facilities (hostel, accommodation, library, sports, shopping etc.), comparable to IITs, NITs and IIMs.

(a) **Hostels:** SLIET is a residential campus with ten hostels for boys and four for girls, accommodating about

4000 students which include about 1000 girl students. The hostels are equipped with good kitchens, comfortable dining halls and indoor games facilities, Wi-Fi connectivity, newspapers/magazines and DTH T.V. facilities to provide homely and comfortable stay. Girls hostel complex also has independent playing facilities and night eating joint.

(b) **Central Library:** The Central Library is housed in a modern building having all kinds of facilities for its best utilization by the faculty, staff and students. The Central Library has large number of volumes of technical books, books on literature, general awareness, Management, Social Sciences and Humanities and special book bank facility. The full-text of journals can be accessed from Science Direct,

## Eligibility for Programmes and Admission Procedure

Name of Programme	Entrance Test	Eligibility	Date of Test
3- Year ICD (Integrated Certificate -Diploma) Programme	SET-I (Apply online to SLIET Longowal by 31/03/2015)	Matric pass (Pass in English, Mathematics and Science is compulsory) from a State Education Board / CBSE / ICSE / National Open School or an equivalent examination recognized / approved by MHRD, Government of India. Those who are appearing in matriculation examination may also apply.	26th April, 2015 (Sunday)
ICD (Lateral Entry) (2nd Yr to the 3-Yr ICD programme)	SET-IA (Apply online to SLIET Longowal by 31/03/2015)	In addition to Matric pass (Pass in English, Mathematics and Science is compulsory), must have passed full time 2-Yr . ITI / Certificate/ 10+2 vocational in relevant trade with 50% marks (45% marks for candidates belonging to reserved category ) from Govt. / Semi Govt. Institute alongwith 2 years industrial experience from Govt. / Semi Govt./ Private Industry of repute.	26th April, 2015 (Sunday)
2 -Yr Diploma Programme	SET-II (Apply online to SLIET Longowal by 31/03/2015)	Certificate (for the students of 2013 batch only of SLIET Longowal). Candidates must have secured a minimum of 50% marks (45% in case of candidates belonging to reserved categories) in the qualifying examination.	26th April, 2015 (Sunday)
BE(4-Yrs) (1st Yr to the 4-Yr programme)	JEE (Main) - 2015	The eligibility conditions of JEE(Main) -2014 will be applicable.	Counselling through CSAB-2015/DASA-2015
BE (Lateral Entry) (2nd Yr to the 4-Yr programme)	SET-III (Apply online to SLIET Longowal by 31/03/2015)	Diploma pass from SLIET or from any other polytechnic affiliated with any State Board of Technical Education and approved by AICTE, securing 55% marks (50% in case of candidates belonging to reserved categories). Those who are appearing in final examination may also apply.	26th April, 2015 (Sunday)
M.Tech Programme (2-Yrs)	Valid GATE Score	<ul style="list-style-type: none"> <li>B.Tech. / B.E. / B.Sc. (Engg.) Degree of recognized University/ Institute</li> <li>OR</li> <li>Pass Section 'B' of the Institution of Engineers (India) in appropriate branch or Grade IETE with three years of professional experience in reputed organization.</li> <li>Minimum marks 60% marks (55% in case of candidates belonging to reserved categories) in qualifying degree with a valid GATE score.</li> </ul>	Counselling through CCMT-2015 / DASA-2015
MBA (2-Yrs)	CAT in the corresponding year or CMAT-2015 or GATE qualified (Apply ONLINE to SLIET Longowal by 31/03/2015)	<ul style="list-style-type: none"> <li>Valid Score of CAT/CMAT or GATE Qualified</li> <li>BE/B.Tech/BSc (Engineering)/ Equivalent degree from any AICTE recognized Institute/University with aggregate of 60% (55% in case of candidates belonging to reserved categories).</li> </ul>	Group discussion and interview on 25-26 June, 2015
MSc (2-Yrs)	PU-CET (PG)-2015/ CUCET-15/JAM-15 (For Test of PU-CET (PG)-2015, apply to Panjab Univ., Chandigarh)	B.Sc. in appropriate subject with at least 55% marks (50% in case of candidates belonging to reserved categories)	For Counselling apply online to SLIET Longowal within 07 days of declaration of PU-CET (PG) - 2015 result
PhD (Full-time)	SET-V (Apply online to SLIET Longowal by 31/03/2015)	Master's Degree in Engineering/Technology/Science/Humanities/ Management with 60% of marks (55% for reserved categories).	26th April, 2015 (Sunday)

Note: Seats are also available under Industry-Institute sponsored category in M.Tech. Programme. Admission under this category will take place on 29th July, 2015 at institute. Candidates under this category are required to report SET office at 09:00 am on 29.07. 2015.

Few seats are available in UG and PG programs under NRI category for which admissions shall be made through DASA-2015. For any other information related to SET-2015 and admission to various programmes refer to Information Brochure. website [www.sliet.ac.in](http://www.sliet.ac.in).

ASTM standards & Digital Library, MathSciNet, and through INDEST Consortium membership, IEEE, Springer, ASME, ASCE, ACM and Nature etc. The NPTEL lectures had been added to the collection and can be viewed online.

(c) **Computing Facilities:** The

Institute is equipped with latest and powerful hardware & software, high-end printers, plotters and scanners. All servers, PCs and peripherals are connected to the campus-networking for sharing resources. The computer laboratories provide computing environment (Linux and Windows Platforms) to the students and

faculty for the pursuit of academic excellence. The various software are catering to the need of students such as Oracle 10g, Power Builder, Developer 2000, Visual Basic, Net, Qualnet etc. and hardware such as IBM Blade Server, IMB xSeries Server, Acer G510 series Server, workstations and PCs are available.

Academic Blocks, Administrative Block, other Institute Buildings and all hostels are connected through optical fibre to share the resources and exchange the data.

- (d) **Sports:** Facilities are available for Table Tennis, Lawn Tennis, Badminton, Swimming, Volley-Ball, Football, Hockey, Cricket, Basketball, and other indoor games. 400 meters Athletic Track and Night playing facility are also there in the playgrounds. Besides these, a modern Students Activity Centre (SAC) having 2 Squash courts, Gymnasium equipped with latest Physical Fitness Machines and indoor games is fully functional. Swimming pool is under renovation at present.

The Institute has its own Health Centre with ambulance facility to provide necessary medical aid to the students and staff in the campus. A fully computerized branch of Central Bank of India with three ATMs facility and a post office are functioning in the campus to cater the needs of the faculty, staff and the students. STD payphone and cyber café facilities are available in the campus. A 800 line EPABX internal telephone facility is available in the institute. A moderate shopping complex with 24 hour eating junctions has been set-up to cater the needs of the SLIET inmates.

### Research & Development at SLIET

Majority of the faculty members have doctoral degree and are actively

involved in research. The publications made by faculty members during the last five years are highly commendable. The consultancy and extension activities are picking up and the number of sponsored research projects sanctioned by external agencies are operational. Organizing Conferences, Workshops, Short-term training programmes and Seminars is a regular feature. The faculty members are encouraged to disseminate and share their research findings at the national and international podium, for which financial assistance is made available by the Institute on request. The Institute invites prominent personalities to deliver extension lectures to faculty and students.

### Department of Training and Placement

A centralized Department of Training & Placement is established in SLIET to meet its students' placement and industrial training requirements. The department is keeping strong liaison with reputed industries to provide placement opportunities and impart industrial training to the students of Institute. The department also provides the inputs on soft skills, personality development, leadership, motivation and communication skills etc. to the students in order to meet the expectations of the industry. A good number of industries conduct campus placements at the institute. The department is having state-of-the-art infrastructure viz. a group discussion room, interview room and a seminar hall. TCS, Software

AG, Ashai Glass iGate-Patni, M&M, L&T Infotech, Birlasoft, Infosys, Trident India, ISGEC Yamunanagar, Punj Lloyd, Honda Siel Cars India Ltd., ESSAR, CIMCOO, J.P. Group of Industries, Nestle, Hindustan Unilever, SANMAR Group of Industries, L&T, Godrej and Boyce Mfg. Co., Sona Koya, i-Tech Vardhman etc. are some of the top of the line recruiting industries that SLIET students vie for campus placement.

### Students Achievements – A Glimpse

SLIET's student team of Mechanical Engineering Department 'Junkyard Warriors' has designed and fabricated an off-road vehicle -- 'All Terrain Vehicle (ATV)' and won many awards including JK Tyre BAJA SAE (Society of Automotive Engineers) India (2009) Maneuverability Award (sponsored by SAE INDIA), Durability Award (sponsored by Mahindra & Mahindra), Overall Award Winner (sponsored by ITW Chemins, Hyd.) Since 2009, Junkyard Warriors has shown rapid improvement. This year 'Junkyard Warriors' bagged the first prize in Endurance race (Durability Award) with a cash prize of Rs 2 lacs. The SLIET 'ATV' (#6) completed 33 laps, with each lap of 3.7 kms.

### SLIET 'ATV' Efficycle

SLIET team "Green Rangers" bagged the Best Design Award and a first position in Endurance Race (Durability Award) at Efficycle 2014. The efficycle 'FATEH' drove by team riders survived the two hour's endurance race.

