



Strategic Plan (2023-2025)



**LORDS Institute of Engineering & Technology
(Autonomous)
Himayat Sagar, Hyderabad
Telangana State-500091**

November 2023

FOREWORD

Lords Institute of Engineering and Technology (LIET) is a prestigious autonomous engineering institution situated in Hyderabad, known for its commitment to academic excellence and inclusive education. Established in 2002, the institute is recognized by the University Grants Commission (UGC) and holds accolades such as NBA Accreditation (thrice), NAAC A Grade (twice), and UGC 12b recognition. LIET stands out as one of the top minority institutions in the state, with the largest intake of students.

The college offers a wide range of programs, including undergraduate (B.E.), postgraduate (M.E., M. Tech), and MBA degrees. With a student population exceeding 4,000, hailing from over 20 Indian states and more than 15 countries, LIET provides a diverse and dynamic learning environment.

LIET's legacy includes producing over 10,000 graduates and 1,500 postgraduates, contributing significantly to the engineering and management sectors. With a strong focus on quality education and outcome-based learning, LIET continues to play a pivotal role in shaping the future of its students and empowering them to become leaders in their respective fields.

Strategic Plan of the Lords Institute of Engineering & Technology is being conceptualized for the period of 2024-26. It precisely articulates the aspirations to emerge as the highly respected multidisciplinary and student centric institute. Under the umbrella of the Institution's plan, this Strategic Plan also outlines overarching priorities of the Institution for the coming two years.

At this juncture, I whole heartedly thank the Associated Deans, all the Heads of various departments, faculty members and other staff members for their untiring efforts in preparing this plan.

I believe, with the support and dedicated efforts of all the stakeholders, in the next two years the Institute will achieve a greater level of excellence and distinction in the higher education arena at national level.

Dr R K Singh

Principal

Lords Institute of Engineering & Technology, Hyderabad

November, 2023

EXECUTIVE SUMMARY

Started in 2002, Lords Institute of Engineering & Technology is considered to be one of the Best Engineering Colleges in Hyderabad. The Institution is the only Muslim Minority Engineering Institution in Telangana and Andhra Pradesh with UGC Autonomous Status. With NBA Accreditation (three times), NAAC A Grade (2 times) and UGC 12b, Lords is today considered to be among the Top Muslim Minority Engineering Colleges in the Country.

From humble beginnings of about 180 students in 2003, Lords currently has about 3000+ students pursuing various programs that include B.E, M.E, M.Tech and MBA. The student body represents more than 20 states of India and about 15+ Nationalities from across Africa and Asia. In the past 18 years, over 8000 students have graduated from the college and are well settled in their careers. It has the Highest student intake among all Muslim Minority Engineering Institutions in Hyderabad.

Our efforts have been acknowledged by the Industry and various Ranking Agencies. The Institution has been ranked 56th in Private Engineering Colleges List in South Zone India by the Week Magazine in their August 2020 edition. Times of India has also awarded us 21st rank among Private Engineering Colleges in Telangana in their August 30, 2020 edition. In addition to this, media houses such as Outlook, Dataquest, Lokmat, Competition Success Review have also ranked us among the Best Engineering Colleges of Hyderabad in the past.

Till date, over 7000 students have graduated from the Institution at Undergraduate level and over 1200 at Postgraduate level. Their success has had a huge positive impact on the Society. This has been made possible by the persistent efforts of the Chairman & Founder, Janab Basha Mohiuddin. The Chairman is a leading Chartered Accountant and Advocate with Business interests in Construction, Consulting & Retail. He is ably supported by the Vice Chairman, an Alumnus of BITS Pilani and ISB Hyderabad, and Secretary, a renowned philanthropist, in running the Institution.

LIET has constituted various committees headed by the senior faculty members of various departments for various roles, responsibility. Periodic management and committees review meeting are held in order to make some effective decision on the different aspects of administration and academics and to make sure that we move in a correct direction.

In particular, the concept of process facilitating a perfect decentralization of activities and delegation

of power has proven itself to be a key concept in the success achieved by the institute on different counts. The working methodology is basically learners (students) centric, which serves as the dearest and highly responsible element of the system. It is also committed to provide quality education to the students enabling them to excel in the fields of Engineering & Technology and Management to cater to the changing and challenging needs of society and industry through the following initiatives:

- Contributing to the academic standing and overall knowledge development of the students.
- Maintaining state-of-the-art infrastructure and congenial learning environment
- Enhancing the competence of the faculty to a very high level and to make them adopt all modern and innovative methods in teaching-learning process as per OBE.
- Inculcating moral and ethical values among the students and staff collaborating with industry, other institutions and organizations for mutual benefit.
- Promoting Research and Development programme for the growth of the economy.
- Disseminating technical knowledge in the region through continuing education programmes.

The quality of learning that happens at Lords Institute of Engineering and Technology(A) has always been the focus of the Administration. In order to ensure this, the Institution has always been on its toes to give the best to its students. From time to time, the University, Government and Industry have acknowledged these unrelenting efforts and have reinforced that we are among the Best Engineering Colleges in Hyderabad and Telangana.

Incubation Centre

- Recognized as the host institution for business incubation by MSME with a seed grant of Rs. 15 lakhs and a scale-up fund of Rs 1 crore for deserving start-ups.
- Received an award from US India SME Council, INC. Washington D.C. on October 30th 2023 for fostering the spirit of entrepreneurship on its campus.
- Our students have raised Angel Investment Funds upto 50 Lakhs for their start-ups
- Currently there are 13 student startups incubated at Lords TBI
- Established Institution's Innovation Council and achieved **3 star** rating by Ministry of Education, GoI

Higher Education Support

- Established a Global Education Cell with Collegiate Education & Technological Education Department(GCELL), Telangana and providing IELTS Free Training on Campus (30 Students)

- Global Education and Career Forum, Telangana, has Awarded a Lords Institute of Engineering and Technology (Autonomous) a Certificate of Recognition for establishing the " Global Education Cell" at the College Campus in Presence of Navin Mittal, IAS
- Students get special counselling, mentoring and guidance for higher education support and opportunities;
- Tie-ups with Foreign Universities for Masters/MS programs

Research & Development

- Received funds Rs.3,00,000 for AICTE-ATAL FDP titled " Recent Trends in Signal and Image Processing with hands-on training using MATLAB" for Two-Week from 19th-30th September 2022.
- Received funding from AICTE under AQIS scheme Rs.11.5 lakhs under MODROB, Rs. 5.46 lakhs for FDP and Rs. 93,000 from ATAL
- 6 Sponsored Research Projects completed and 2 On-going Projects from various Government and Private Agencies.
- 110 patents have been published and 4 Indian Patents are granted in four academic year
- 262 research papers published in last four Academic Year
- 88 Books were authored in last four Academic Year
- 117 conference publications in last four Academic Year
- Institution Infrastructure used for conducting National & State Level competitive examinations including NEET, EAMCET, ECET, Police recruitment etc. Over INR 35,00,000/- raised in the form of consultancy for testing facility

Consultancy Works

- Institute has bagged Third-Party Quality Control contract for the fourth consecutive year from GHMC with a total project worth of Rs. 200+ crores
- 6 Consultancy Projects are completed and 4 are On-going associated with Aurobindo Pharma, Rise Pharma, Exclusive Magnesium, BMR Projects, Virchow Laboratories, Vasant Chemicals, Dr. Reddy's Lab
- Accreditation from National Accreditation Board for Testing and Calibration Laboratories (NABL) for industrial consultancy (very few educational institutions have NABL accreditation)

Students on campus

- 200+ research papers published by students in three Academic Years

- Student Research used for combatting Corona Virus – Oxygen Concentrator, Drone Sanitizer, Mist Sanitizer, Handless Sanitizer, Currency Sanitizer
- MD Owais Quadri from ECE won a seedgrant of Rs.15000/- in Agri Aavishkar Competition held at Atal Community Innovation Centre – CBIT on 4th July,2022
- 3rd Prize Rural Innovators Start Up Conclave organized by NIRD in Drinking Water and Sanitation Category – Sept. 2019
- 2nd Prize Rural Innovators Start Up Conclave organized by NIRD in Sustainable Housing Category – Sept. 2019
- Student team selected to represent Telangana at National Level Quad Bike Challenge in Hyderabad – March 2019
- Student team selected to represent Telangana at National Level Electrical Kart Championship in Bhopal – April 2019
- A team of students won INR 50,000/- cash prize and at Rural Innovators Start-up Conclave conducted by NIRD, Ministry of Rural Development, Govt. of India, in March, 2017
- 4 patents by the students in the field of Mechanical & Electronic Engineering
- Multiple projects to tackle issues COVID -19 issues by students
- Entrepreneurship Cell with 13 student ventures incubated
- 7 Professional Student Associations with their events planned through the year
- 4 registered Social Clubs such as Photography, NSS, Sports, Orators etc.
- Students part of University Cricket, Football, Basketball, Badminton, Judo, Weightlifting teams
- 10+ Student clubs to participate in co-curricular and extra-curricular activities to build students confidence and employability skills

Centre of Excellence:

Keeping in mind the requirements of the Industry, the management of LIET has taken a noble initiative to create a special facility to impart training to the students to by establishing 3 Centre of Excellence (CoE) to empower them to become industry-ready and at the same time capable of bagging a job with good package. Training programs of higher thinking order, at par with industry requirements, are conducted at the various COE in various aspects of engineering.

- Additive Manufacturing(CEAM)
- Cyber Security (CECS)
- Artificial Intelligence(CEAI)

International Collaborations / MOUs:

The International collaborations aim to focus on collaborative research, faculty & students exchange, dual degree programs and training programs on latest technologies. With a view to make our students society savvy, industry-ready and competitive, LIET, has a tie up with prestigious and highly-renowned global institutions of repute to give its students opportunities such as foreign internships, student exchanges, international familiarization tours, opportunities to work on new ideas, cutting-edge technologies and processes, participate in application development; lectures, talks and seminars by visiting faculty. Over the years it endeavors to provide students with the opportunity to twin and transfer programs and many more. It currently enjoys partnerships on the above activities with university such as:

- Lincoln University, Malaysia

Entrepreneurship Development Cell

Entrepreneurship Development Cell was established with a view to foster the entrepreneur skills among the students. The purpose of this Cell is to support the students to transform their innovative ideas into new products and services for the betterment of the society with the provision of infrastructure and technical support . The EDC also assists all the aspirants with mentoring, planning and execution of their start up idea into a real business. The Cell also organizes different activities and events from time to time to train and motivate the students on entrepreneurship.

The Entrepreneurship Cell, Lords Institute is a place for all those who think differently and who avoid taking beaten paths and believe in leaving trails in all walks of life. The Cell at Lords Institute aims at manifesting the latent Entrepreneurial spirit of young students. Not only we work on your capacities to make you worthy of opportunities but we also help you to walk through it by providing resources such as seed, funding mentoring, networking with other entrepreneurs' frequent interactive sessions and competitions.

The best part of the Cell is that, we go beyond and campus and create impact, as we are guided by the philosophy that, growth and development can be possible collectively as a society and not in personal silos or campus silos. Therefore, we go out to the society and other campuses and help other Entrepreneurship Cells with the required knowledge transfer and support, to create the synergistic effect.

The Vision, Mission, Quality Statement of the Institute

Vision: Lords Institute of Engineering and Technology strives continuously for excellence in professional education through quality, innovation and teamwork and to emerge as a premier institute in the state and across the nation.



Mission:

M1: To impart quality professional education that meets the needs of present and emerging technological world.

M2: To strive for student achievement and success, preparing them for life, career and leadership.

M3: To provide a scholarly and vibrant learning environment that enables faculty, staff and students to achieve personal and professional growth.

M4: To contribute to advancement of knowledge, in both fundamental and applied areas of engineering and technology.

M5: To forge mutually beneficial relationships with government organizations, industries, society and the alumni.

M5: Improve employability potential through soft skills and technical skills.

The Quality Policy of the Institute

LORDS INSTITUTE OF ENGINEERING AND TECHNOLOGY imparts quality education by practicing a system of quality assurance that enables continued improvement in the teaching-learning process and enhances student's skills and talents.

Strategic Plan

OBJECTIVES OF THE STRATEGIC PLAN

As the strategic plan demands timely actions, its success is determined by the fulfillment of the targets and outcome achieved. Further, prioritization amongst these themes is essential in order to see that maximum outcome is achieved by focusing on crucial parameters, following the Principle

- Modern, flexible and interdisciplinary curriculum
- Internationalization
- Smart campus including ERP with strengthened ICT backbone and video conferencing facilities
- Central library as modern information resource centre
- Introduction of new programmes
- Ranking and accreditation (national and international)
- Healthy faculty student ratio
- Enhancing employability and entrepreneurship
- Diversity and inclusivity
- Strengthening the culture of research and innovation
- Nurturing start-ups and providing entrepreneurial ecosystem through incubation
- Impacting societal outcomes
- Generating alternate sources of revenue
- Intuition as centre of excellence

The strategic plan in brief is as follows: Improving under Graduate (UG) and Post Graduate (PG) Education by incorporating Modern Teaching Learning methods. Increased initiative to be taken to get funds from the Department of Science and Technology, UGC and other funding agencies. Focus on developmental aspects such as student intake, curriculum improvement, infrastructure enhancement and accreditation. All Department of LIET strives in achieving Improving Research and Development, Industry Interaction, Collaboration with Foreign Universities, Alumni Interaction, Entrepreneurship, and Social Responsibility Initiatives. Envisioning the establishment of a private university and aiming to offer world-class education and research through reputed international collaborations.

By considering the strategic plans mentioned above, we chalked out the objectives and related expected outcomes for the strategic plan.

| Strategic plan | Specific Objective | Expected Results |
|---|--|--|
| To provide trained and skilled engineers of the highest quality to meet the global needs. | <ul style="list-style-type: none"> • To increase the interaction with Tier-1/Tier-2 Industries. • To enhance learning activities such as Case studies/course projects/ assignments/etc. leading to increased learning outcomes. • To improve training of students on Contemporary issues. | <ul style="list-style-type: none"> • Increased Placements of Graduates. • Enhanced learning outcomes of the graduates. |
| To provide blended learning environments through Academic and Administration Reforms leading to increased learning outcomes of the students. | <ul style="list-style-type: none"> • To conduct Enrichment Programmes for senior Faculty. • To provide OBE training for all faculty members to strengthen outcome based learning and teaching (OBLT). • To enhance learning activities such as Case studies/course projects/ assignments/etc. leading to increased learning outcomes. | <ul style="list-style-type: none"> • Enhanced learning outcomes of the graduates. • Conducive working environment for all stake holders. |
| To further improve our Laboratories /Research facilities/ Library to enhance the quality of teaching and learning process. | <ul style="list-style-type: none"> • To set up of new laboratories in the emerging areas to improve the quality of PG/research in the institution. • Strengthening of Library resources to keep pace with fast change in technology. | <ul style="list-style-type: none"> • Rich Library Resources. • Modern PG/Research Laboratories. |
| To enhance research culture and entrepreneurship among the faculty and students. | <ul style="list-style-type: none"> • To provide Seed money for pursuing research to Young faculty • To organize workshops/ training on specific area of research for both faculty and students. • To organize training on IPR and entrepreneurship | <ul style="list-style-type: none"> • Attracting more Funded Research projects/ Consultancy / Quality Research Publications • Focus towards IPR and Entrepreneurship. |
| To create an environment that enhances the interaction with reputed Indian/ international institutions through mutual sharing of resources and joint research projects. | To further motivate the faculty and students to establish networking with reputed Institution | <ul style="list-style-type: none"> • Faculty/Student Exchange • Joint research projects • Increased number of MOUs |

| | | |
|--|--|--|
| To Extend academic help to assist academically weaker students. | To identify and handhold the academically weaker students | <ul style="list-style-type: none"> • Improved pass percentage /transition rate. • Enhanced employability |
| To strengthen the competency of the faculty through Faculty Development Programmes and skills of technical staff and others through periodic training program. | To develop the faculty and staff holistically for enhancing their efficiency and effectiveness for fulfilling the requirement of various academic responsibilities. | <ul style="list-style-type: none"> • Skilled/Competent Faculty and staff. |
| To Start new PG Programs in emerging areas /technologies, thus improving the employability among students. | <ul style="list-style-type: none"> • Strengthening of the existing PG programmes. • Starting of new PG programmes in the thrust/emerging areas. | <ul style="list-style-type: none"> • Research Focused PG Programs. • Skilled PG Students leading to better employment. |
| To obtain Accreditation for the remaining eligible UG / PG Programs as and when they become eligible. | <ul style="list-style-type: none"> • To prepare the Self-Assessment Report and apply for NBA accreditation for all eligible Programs • To obtain NBA accreditation for eligible UG/PG programs | <ul style="list-style-type: none"> • Applying for NBA accreditation successfully. • 100% of the Programs Accredited. |

IMPORTANCE OF STRATEGIC PLAN

Strategic plan is an important tool for a university to manage itself effectively because it:

- provides a framework for effectiveness and sense of direction
- outlines the goals and measurable targets
- is useful for guiding day-to-day actions
- helps in evaluating progress and changing approaches when moving forward



The plan is developed to establish deep roots that provide firm foundation for the constant up-gradation of the university, as well as to energise the drive of experimentation and innovation, keeping the focus on university's vision and mission. The strategic plan sets out a framework of priorities for the university, its constituent institutes and centres. It is an iterative process at both the stages, i.e., while framing and when implementing as well, as shown in Figure 1.1.



Figure 1.1: Strategic plan cycle

The first step in the implementation process is the evaluation of the strategic plan. The plan must be reviewed carefully, and any elements of the plan that might be especially challenging must be highlighted, e.g., any part of the plan that might be unrealistic or excessive in cost, either in terms of time or money.

Deployment of teams, with assigned team leaders, is necessary to implement the plan. Monitoring of progress with a close watch on the collective efforts and timelines will lead the team towards the accomplishments. At the same time, fine-tuning may be applied to the strategy, if required.

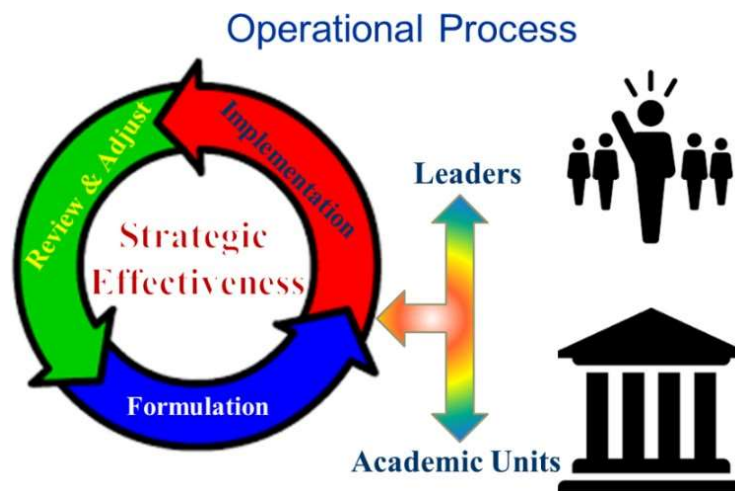


Figure 1.2: The effective Strategic Plan Process

Strategies, Targets and Implementation Plan

Liet is very serious in effectively implementing and monitoring the progress of the Two-Year Strategic Plan. The plan will be implemented and closely monitored by a core team that will meet once in three months and review the progress. Apart from the core team, at the institute level, the Institutional Committee will hold review meetings on a monthly basis and will facilitate the proper implementation of the strategic plan.

Goal-1: To recruit and develop faculty members to meet the emerging academic and employability challenges

Strategy-1. To select faculty with PhD qualifications

Strategy-2. To recruit faculty who have done their post-graduation/doctoral studies from a IIT/NIT or Central university

Strategy-3. To ensure that most faculty have research experience

Table 1.1: Two Years targets for Recruitment and Development of Faculty Members to Meet The Emerging Academic and Employability Challenges

| Metrics/Year | 2023-24 | 2024-25 |
|---|---------|---------|
| Faculty with PhD qualifications | 25% | 35% |
| Faculty from IIT/NIT or CU with Postgraduate/PhD Degree | 10% | 20% |
| Percentage of Faculty with Industry Experience | 20% | 40% |

Goal-2: To provide high quality infrastructure and facilities

Strategy-1. To Modernise different laboratories in various institutes

Strategy-2. To implement requisite ICT infrastructure

Table 1.2: Two yearly targets for enhancing infrastructure and facilities

| Metrics/Year | 2023-24 | 2024-25 |
|---|---------|---------|
| Modernizing Laboratories | 60% | 100% |
| Implementing requisite ICT infrastructure | 70% | 100% |

Goal-3: : To Provide Platform For High Quality Teaching Techniques To The Faculties

Strategy-1. Establishment of Smart Classroom/ Studios

Strategy-2. Adopt of other modern teaching practices for better learning outcomes

Table 1.3: Two yearly targets for enhancing infrastructure and facilities

| Metrics/Year | 2023-24 | 2024-25 |
|--|---------|---------|
| Establishment of Smart Classroom/ Studios | 50% | 65% |
| Adopt of other modern teaching practices for better learning outcomes | 80% | 100% |

Goal-4: To promote research and innovation

Strategy-1. To establish various centres of excellence in different departments

Strategy-2. To increase seed money grants for minor research projects

Strategy-3. To increase external research funding

Table 1.4: Two years targets for promoting research and innovation in constituent institutes

| Metrics/Year | 2023-24 | 2024-25 |
|---|-----------------|-----------------|
| Establishing Centers of Excellence | 5 | 7 |
| Funding for minor research projects | Rs 35/- Lakhs | Rs 40/- Lakhs |
| Funding for external research projects | Rs 100 Lakhs | Rs 150 Lakhs |

Goal-5: To become a national importance institute

Strategy-1. To get Tier-1 Accreditation for all UG Programs

Strategy-2. To achieve A++ grade in the third cycle of NAAC accreditation

Strategy-3. To achieve top 200 ranking in National Institutional Ranking Framework (NIRF),
Ministry of HRD, GoI

Table 1.5: Two years targets for becoming a medium-sized national University

| Metrics/Year | 2023-24 | 2024-25 |
|--------------------|--|---|
| NBA Accreditation | Tier-I Accreditation for All UG Programs | |
| NAAC Accreditation | To achieve A++ | |
| NIRF ranking | To be among the top 300 institutions | To be among the top 200 institutions |

Monitoring and Alignment: Structure and Systems

The implementation of strategic plan will be monitored time to time by Director, Academic Council and other committees through periodic review. The section heads will prepare the detailed progress report and present it in the review meetings. The benchmarking of quality standards and its monitoring, evaluation of attainment will be carried out by the IQAC independently. The IQAC will report the findings to the Academic Council and Governing Council Board. With thorough analysis of outcomes and based on IQAC report, the above will recommend the corrective actions, need of further processes and deployment of resources. All these reports will be forwarded for further discussions and implementation by the Institute Management