

Srindu College of Engineering & Technology UGC Autonomous Institution

Recognized under 2(f) & 12(B) of UGC Act 1956, NAAC, Approved by AICTE & Permanently Affiliated to JNTUH











SICET STRATEGIC PLAN 2019-2024





INSTITUTION VISION

To be a premier Institution in Engineering & Technology and Management with competency, values and social consciousness.

INSTITUTION MISSION

IM₁ Provide high quality academic programs, training activities and research facilities.

IM₂ Promote Continuous Industry-Institute interaction for employability, Entrepreneurship, leadership and research aptitude among stakeholders.

IM₃ Contribute to the economical and technological development of the region, state and nation.



Sri Indu College of Engineering and Technology
(VIII): 9HEMQUDA-501 540,
(brahimpatnem(M), R.R.Dist

PO	Description
	Engineering Knowledge: Apply the knowledge of mathematics, science, engineering
PO 1	fundamentals, and an engineering specialization to the solution of complex engineering
	problems.
DO 4	Problem Analysis: Identify, formulate, review research literature, and analyze complex
PO 2	engineering problems reaching substantiated conclusions using first principles of
	mathematics, natural sciences, and engineering sciences.
	Design / development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with
PO 3	appropriate consideration for the public health and safety, and the cultural, societal, and
	environmental considerations.
	Conduct investigations of complex problems: Use research-based knowledge and
PO 4	research methods including design of experiments, analysis and interpretation of data,
	and synthesis of the information to provide valid conclusions.
	Modern tool usage: Create, select, and apply appropriate techniques, resources, and
PO 5	modern engineering and IT tools including prediction and modeling to complex
	engineering activities with an understanding of the limitations.
	The engineer and Society: Apply reasoning informed by the contextual knowledge to
PO 6	assess societal, health, safety, legal and cultural issues and the consequent
	responsibilities relevant to the professional engineering practice.
DO 7	Environment and sustainability: Understand the impact of the professional
PO 7	engineering solutions in societal and environmental contexts, and demonstrate the
	knowledge of, and need for sustainable development. Ethics: Apply ethical principles and commit to professional ethics and responsibilities
PO 8	and norms of the engineering practice
	Individual and team work: Function effectively as an individual, and as a member or
PO 9	leader in diverse teams, and in multidisciplinary settings.
	Communication: Communicate effectively on complex engineering activities with the
DO 10	engineering community and with society at large, such as, being able to comprehend and
PO 10	write effective reports and design documentation, make effective presentations, and give
	and receive clear instructions.
	Project management and finance: Demonstrate knowledge and understanding of the
PO 11	engineering and management principles and apply these to one's own work, as a member
	and leader in a team, to manage projects and in multidisciplinary environments.
DO 12	Life-long learning: Recognize the need for, and have the preparation and ability to
PO 12	engage in independent and life-long learning in the broadest context of technological
	Change



PRINCIPAL
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SWOC

	STRENGTH		WEAKNESS
S1	College is rated among top 4 colleges in the	W1	Additional number of faculty with Ph.D. for
	region		research & consultancy not available
S2	Good Infrastructure	W2	Inadequate Faculty Development
S3	Well Experienced Faculty		Programmes (FDPs) including Pedagogical
S4	The college has signed MoU with		training
	University of Bridgeport, USA for higher	W3	R&D and innovation culture is weak
	studies	W4	Use of modern Teaching Aids and learning
S5	Good placement as priority action		resources are inadequate
S6	Pollution free learning environment -	W5	Internet facility in the campus needs
	modern day Engineering and Technology	,,,,	expansion
	GURUKUL CHRISTOCH CONTROL OF THE CON	W6	Less number of publications by faculty
S7	Student discipline is good	W7	Needs enough attention to weak students
S8	Supportive & Cooperative management	W8	Insignificant IRG generation and utilization
S9	Adequately equipped Laboratories - as per	W9	Emerging areas should be included in the
57	current syllabus	"	syllabus
S10	NBA Accreditation for three programmes.	W10	Labs should be augmented with latest
510	For other UG and PG programmes	** 10	equipment
	application submission is in progress	W11	Industry Institute interaction needs to be
S11	College has Jawahar Knowledge	44 1 1	concentrated
311	Centre*(JKC) - Institute of Electronic	W12	No of user licenses for software popularly
		VV 1∠	used is insufficient
012	Governance(IEG) which helps in placement	W/12	
S12	Management is financially strong	W13	Training of students in soft skills inadequate
S13	Good transport facility provided by the	W14	Lack of employment oriented learning
	college and Govt. as it is located on national		resources and simulation/design software
014	highway.	3374.5	(CAEs)
S14	Well-equipped Library	W15	Institutional automation needs to be
S15	Co-Curricular Activities (Cultural fests and	W116	introduced
	Technical fests) are organized. Participated	W16	Support staff and technical non-teaching
016	by students from all over the country	W17	staff needs training
S16	Employee incentives and salaries are given	W17	Less entrepreneurship related activities
017	on time		
S17	The college has a regular practice of		
	appointing a faculty member as a Mentor for		
010	every Class		
S18	Multi-Disciplinary Activities are taken up		
	successfully as many Colleges are under one		
0.10	management		
S19	Positive Environment & Freedom for		
0.20	Innovation		
S20	Eminent Guest speakers from academia,		
	Industry and Service sector are invited for		
	interaction and exposure to best practices for		
	the students and faculty		
S21	Healthy Competition among different		
	departments		
S22	Good Result in the University. College		
	continuously produces rank holders and		
	high percentage graduates		
S23	Consistently good performance in		
	competitive examinations		
S24	Good Understanding & Coordination		
	among management/Staff & Faculty		
S25	College has reward system for high		
	performing students.		
S26	System of faculty appraisal by students		
	exists		

S27	Close monitoring of student performance and system of communicating regularly with parents	CHALL ENGIN
	OPPORTUNITIES	CHALLENGES
O1	Tie up with foreign Universities will enhance the image of the College	in the city will increase competition in
O2	Additional Courses in PG, PhD and Medical could be started as per state industrial policy	C2 Foreign universities intrusion in the technical education sector
О3	Being close to industries in Hyderabad, projects should be obtained	C3 Lack of continuous electricity supply C4 Non availability of highly qualified faculty C6 Economic recession
O4	Skilled based programmes for community should be offered	C8 Infrastructure development - creation of toll bridge might affect student admission
O5	Encash TEQIP III participation opportunity.	
O6	Use industry for offering tailor made continuing education programmes	
О7	Obtain sponsored research and consultancy from industry and generate revenue	
O8	Training hub for industries (CEP)	



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Expectations

Management	 Global Brand Sustainability Good Governance Keep up Autonomous status Societal Needy
Leadership Team Faculty & Staff	 National ranking with in top 100 Competent Faculty Revenue generation for sustainability Industry – Institute Interaction Skilled based education programmes Bench marking through Accreditation of programs and institution (Like, NAAC, NBA, NIRF etc.,) Centre of excellence & International MoUs Good academic & working ambience Career growth ,Research facilities Academic independence with accountability Transparency and uniform processes
	Transparency and uniform processesMotivational Schemes
Students	 Good academic & research ambience Support for co-curricular & Extracurricular activities State of the art infrastructure Experiential learning & Opportunity for talent exposure International learning Quality Placement, career guidance and entrepreneurial opportunities
Parents	 Branding Quality teaching- learning Disciplined students Good placements
Industry	 Industry ready professionals with proper attitude Strong fundamentals Strong Industry-Institution interaction Collaborative research, consultancy Brand and accreditations of the institute
Society & Others	 Graduates with Moral, Ethical and Responsible Citizenship Social service activities by the institution Skill development for needy Resource centre for other institutions Consultancy and Continuing education Programs

Strategic Goals

After brain storming the vision, mission, quality policy, core values, environmental factors and SWOC analysis arrived at the step to establish high level goals (HLG) which are also called Institution Strategic Goals (ISG)



1. Good Governance

Governing Body	 Merit based GB appointment Performance management of GB members through specific responsibilities Evaluation of institutions performance and bench marking Guiding and approving policy matters
Vision, Mission and Institution Goals	 Vision, Mission development & their articulation Setting short term and long term goals Institutional Strategic development plan Institutional strategic goals setting
Transparency & Leadership	 Transparency in Leadership & appointment of Key positions Service conduct rules and polices formulation, approval & implementation Grievance Redressal mechanism Leadership Development through decentralization Establishing E-Governance- MIS- Data analysis
Internal Quality Assurance Cell & Accreditation	 Setting up of IQAC with internal & external members to audit processes Establishing internal audit committee for regulatory compliance Systems, checks and balances- Remedial measures.
Students Participation	 Students nomination to Governing Body Their suggestions in various academic and student affairs

2. Strengthening Status

Vision & Budget allocation	 Discussion in Governing Body and approval for University status Resource planning & budget approval
Preparation of UDP & preassessment	 Constitution and appointment of committee to prepare University Development Plan (UDP) Formation of Academic Council, BoS and Liaison officeretc) Preparation for pre-assessment & assessment
Accreditation & Certifications	 Accreditation & Assessment cell Inspections preparation & Approvals
Statutory Inspections	 Statutory inspections planning and preparation Inspections facilitation & remedial measures Provisional university approval status





3. Leadership Development

Developing Ownership	Motivating through interactionsPartnership incentive plans
Assessment & Identification	 Expert committee to assess all existing leaders potential Find gaps and structure changing Identify positions for external
Decentralization	 Decentralize the academic, administration and student related Prescribe duties, responsibilities and accountability Rotation of key posts to build leadership
Development & Job Rotation	 Develop Leadership competencies Plan for Job rotation /enlargement /enrichment assignments Plan for new /crisis assignments
Retention Measures	 Growth retention plans through Career advancement. Golden handcuffs through (monetary /welfare)

4. Financial Management

Budgeting	 Department wise Budget planning of all heads of accounts Forecast & estimation of revenue (Both IRG and ERG) Forecast & estimation of expenditure Emergency plans Budget formulation & approval through Finance committee
Financial Governance (HoDs)	Planned expenditure management Progurament and Financial policies implementation
Outflow Management & Growth plans	 Monitoring expenses as per budget planning Predicting internal revenue generation Treasury (surplus funds) management Growth- Expansion plans



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5. Physical infrastructure

Green Campus (Keeping with the Vision & Mission)	 Plantation, Rain water harvesting and green cover Energy harvesting & management Hygiene, solid waste management (zero plastic usage) Reuse of waste Efficient usage of recycled waste water
Academic infrastructure	 Aesthetic Class rooms, Tutorials, Seminar halls State of the art Laboratory & equipment
Library	Library infrastructure up gradationFunctional Furniture and fittings for e-learning
Residential Township	 Staff quarters and township facilities Safety, Security management Water facility and health centre
Sports, Hostel & Canteen	 Developing sports (indoor/outdoor) facilities Hobby clubs, Canteen & community centre Additional Hostels facility for boys & Girls within the campus International Hostel

6. Teaching-Learning Infrastructure

Smart Class rooms	 Smart boards Multi-room instructional facility Multimedia and support equipment E-Learning facilities
Laboratory- R&D Equipment	 R&D Laboratory and its maintenance Simulators Industry equipment (centres of competence) for consultancy
KE & ICT	 Licensed softwares- Higher BW Hardware (Servers, Computersetc) Pedagogy tools Online learning tools Evaluation & assessment tools Learning Management System ICT for 360 deg. Feedback.
Books & E-Learning	 Books, Journals, Periodicals, Magazines Online access to E-media Departmental library books



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7. Library & Information Centre

Infrastructure enhancement	 Budget allocation Infrastructure (Buildings & Furniture) CCTV and Lockers facility
Removal of obsolescence in Books & Resources	 Books, journals procurement, storage and retrieval Resources automation & Access (24X 7)
Digital & E-Library	 Digitization of Library resources Establishing cloud based e-library & online access

8. Attraction, strengthening and retention of Faculty

Talent Hiring & Retention policy	 Merit based hiring policy formulation & implementation Career advancement Schemes Scientific induction/ orientation of new talent Critical talent identification & retention measures
UGC /AICTE Scales, Rewards & Recognitions	 UGC /AICTE scales implementation for all cadres / designations Additional cadres to be created for deserving staff Rewards – recognitions & incentives Welfare policy formulation & implementation
Conducive working environment	 Best work facilities and infrastructure Role & responsibilities clarity and empowerment Online access to Library- journals 24X7 hours Township /quarters facility
Career growth & Development	 □ Sponsorship/ Deputation, sabbaticals for higher education & Exchange programmes □ Sponsorship to participate in national /international conferences □ Deputation to premier national /international universities/industry



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9. Teaching-Learning and Evaluation Process

Bench mark with	 Constitute academic teams and visit premier institutions
Premier institutes	 Customize & Implement best practices
Curriculum Design & Lesson plan	 Design curriculum as per all graduate attributes and expectations of stake holders Develop lesson plan as per OBE & academic calendar Develop e-learning content Benchmark with industry requirements
	 Use of LMS to support students
TNA and upgrading faculty & staff competence	 Conduct Training Need Analysis (TNA) every two years Conduct / depute faculty and staff for competence development Support paper publications and presentations Provide opportunities for networking Train faculty to use LMS effectively
Knowledge Delivery & Outcome based education	 Define outcomes of each teaching learning initiative Continuous Assessment and evaluation to measure outcomes Establish Research Culture Access to online learning Mentor on academic, career & higher educational opportunities
Evaluation & Assessment	 Create proper feedback system Continuous progress assessment Question bank development & Term end examinations Credit transfers and performance development

10. Industry- Institute Relationships

Industry Data base & Intelligence	 Strengthen placement, training and industry institute interaction cell Identify branch wise preferred industries & companies Identification of potential areas of research MoUs & NDA with potential industries/companies Professional bodies membership
Leverage Industry Resources	 Invite industry experts for guest lecturers /talks/seminars Partner with industry for syllabus reviews/advisory roles Deputation of faculty to Industry on sabbatical Leverage for internships, research projects, consultancy & placements Scholarships
Leverage Institutional Resources for Industry Setting up Centres of Excellence	 Training and talks by faculty Consultancy and testing to industry Starting of postgraduate programs for industry personal Enrolling industry personnel for Ph.D. Identify potential industries who can establish centres of excellence department wise Establish and operationalize centres of excellence Setting up of chairs in specific domains by industry

11. Research, Development and Innovation

	Enhancing D&D laboratories in all denortes arts
R&D Infrastructure &Teams	Enhancing R&D laboratories in all departments
	Modernisation and removal of obsolescence
	 Dedicated R&D facilitation & documentation centre
	 Competent technical staff for R&D labs
	 Start new Journals with scopus indexing.
	 Fund raising through Project proposals
Establishing Centres	 Apply for TEQIP/Government/ other funding
of competence	 Establishing centres of excellences
	 Establishing Consultancy cell
	 MoUs with higher learning institutions in India
	& abroad.
MOU with premier	 Collaborations with IISC, IITs, TIFR, ISRO,
institutes/ R&D labs	DRDO, NAL, HAL, BELetc
	 Multi & inter disciplinary research and
	product development
	• Encourage "idea to product" pre-incubation activities
Incubation Centre	 Establishing incubation centres
/Product Development	 Focus on Product development
	 Startup of maker Space (Fab Lab) – Product
	and development
	Patent filing, Scaling up & commercialization
Setting up of Patent cell	Starting of patent cell
2 3 -P 0. 2 0.1	 Appointment of search and Patent Attorney

12. **Quality Assurance Systems**

Establishing Quality Systems	 Setting up bench marks & system flow Quality Policy steering committee Publishing Quality system design & culture Educating & Training of all employees
Internal Quality Assurance & Assessment cell	Setting up of IQAC teamPeriodic checks and guidance
Accreditation & Certifications	 Internalise the process based on Choose accreditation/certification agency Audit and certifications
Audit Internal Controls	 Establish audit process & audit teams Train internal auditor teams Audit and remedial measures
Continual improvement, Rewards & Recognitions	 Setting up of Quality assurance cell Identifying achievements & best practices Quality circle competitions & rewards Annual competitions



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13. Entrepreneurship

EDP Cell	 Establishment of dedicated EDP cell Budget /seed funding for funding initial projects Identification of emerging areas of entrepreneurship
Identification of students, mentors & Training	 Identify interested students for entrepreneurship Identify mentors from successful entrepreneurs from Alumni/others Formal training on entrepreneurship
Leverage Promotion agencies	 EDP agencies and networking Competitions participation Leverage for funding & support
Incubation & Pilot projects	 Establish incubation centre for prototypes Provide incubation support for students Incubation support for outside SMEs

14. Placements, Internships & Career Guidance

Placement & Career guidance Department	 Dedicated team Modernization of infrastructure (Video conferencing, interview & conference rooms) Video recording of mock up interviews of students and feedback
Industry MOUs- Intelligence	 Data base of various potential industries/companies MOU s and relationship management Industry experts as resource persons
Training & Development	 Awareness programmes Value added programmes (soft skills & domain expertise) Competency enhancement centre
Internships, Placement process & Success stories	 Internships planning and execution Placement process coordination Success stories celebration- Brand building



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15. Extra-Curricular and Co-curricular activities

State of the art infrastructure	 Budget allocation Establish state of the art infrastructure (indoor/outdoor) Formation of hobby clubs
Coaching, training & competitions	 Dedicated coaches /trainers recruitment Regular training /coaching classes Participation in tournaments/competitions Hosting competitions/ tournaments
Credit transfer, Rewards & Recognition	 Admission priority for state/national achievers Academic credits transfer Attendance compensation Reward & Recognise achievers

16. Alumni Interaction

Alumni Association	 Strengthen Alumni association and engagement Establish alumni association office on campus, engage students Data base updation and interactive alumni website Establish global chapters and networking
Relationships & Leveraging	 Regular interactions /invitations Recognise successful alumni Leverage for guest lecturers/internships/placements Academic advisors/ Board of governors
Endowments	 Explore Contributions / endowment partnering Brand ambassadors Sponsorships/scholarships

17. Community Service and Extension activities

Budget and Resources	 Budget from institution resources Budget from Faculty/students/Govt/other donors
Village adoption & Rural Projects	 Identify nearby villages for adoption Study rural projects and challenges Explore & provide support to the execution of projects
Vocational training	 Identify the job oriented courses as per local needs Provide vocational training at the institute Educational tuitions/ support to village students
Health and hygiene support	 Conducting health awareness camps Providing free medicines to the needy Psychological and psychiatric support

18. Global Initiatives

New Campuses / Programs	 Explore establishing new campuses in developing countries MoUs with the governments of developing countries Twinning programmes with leading universities of developed countries
Foreign Students	Attracting foreign studentsTwinning programmes with foreign students
MoUs with Foreign Governments/ Institutions	 Identify foreign higher level learning institutions MOUs with potential partner institutions MOUs with governments for education & projects



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SRI INDU COLLEGE OF ENGINEERING AND TECHNOLOGY

LONG TERM PLAN (5 YEARS)

To Provide Modern Infrastructure Facility

To Create Centers of Excellence

To have 60% of faculty with Ph.D qualification

To introduce new UG and PG programs and to enhance the intake of existing programs

To facilitate students to become entrepreneurs

To create incubation centres in collaboration with various agencies

To make use of emerging technologies for providing skill sets and additional self-learning

To collaborate with Foreign/National institutions of higher learning and research organizations.

To Establish collaborative Laboratories with the support of industry

SHORT TERM PLAN (2 YEARS)

To Strengthen the campus facilities and support system

To Enhance the output in Research and Consultancy

To NAAC Accreditation & NBA Accreditation for all eligible programs

To Development of new Curriculum

To Foster Creativity and innovation

To Introduce multidisciplinary courses and projects

To Improve Teaching-Learning process



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