



SCIENT INSTITUTE OF TECHNOLOGY



STRATEGIC PLAN

2015-2020



SCIENT INSTITUTE OF TECHNOLOGY

Ibrahimpattanam, R.R Dist 501506

(NAAC Accredited, Approved by AICTE & Affiliated to JNTUH)



SCIENT INSTITUTE OF TECHNOLOGY



CORE VALUES:

The core values adopted by the Institute as enduring principles are Integrity, Excellence, Accountability, Transparency, and Empathy.

Integrity: Research and teaching shall be carried out in an environment of academic freedom and honesty. The Institute will adhere to the highest standards of ethics in all its activities .

Excellence: The Institute is committed to excellence in all spheres of its activities, and through internal and external reviews, and will work towards continuous improvement. The Institute will recognize exceptional efforts through awards and honors.

Accountability: Scient Institute of Technology has been a recipient of public funds and recognizes that it is accountable to the people of India and to all its immediate stakeholders including students, staff, faculty, alumni, and industry.

Transparency: The Institute will function according to defined procedures and rules, which will be informed to all stakeholders. The Institute will make public all important information related to its functioning.

Empathy: An awareness of the conditions of the weaker sections of our society and contributions towards solution of their problems will form an integral part of the research and education programmes of the Institute.

Goals:

SNTI as a modern research platform performs a diverse set of activities, which include: Educating high quality manpower with the required skills and knowledge at both undergraduate and postgraduate levels.

Generating new knowledge through fundamental research,

Being a repository of knowledge and of experts.

Being a source of new ideas and independent opinions through scholarship.

Being a source of innovation leading to solution of local problems, development of new products, processes, and formation of new businesses, leading to wealth and employment generation.

Growth in vibrant economies of the world has been fuelled by innovation, disruptive technology, and product development, which have roots in state of the art research and education in academic institutions.

Such institutions are strategic assets of a nation, contributing to both, national prosperity and national security. Successful institutions have strong links with local communities and industry, and contribute to the city, the region and the nation's development and growth.

It is recognized that technology has a major role in transforming lives.

Creating an enabling ecosystem for innovation and entrepreneurship is thus a key activity for progressive educational institutes.

In addition to the broad range of activities that the Institute carries out in pursuit of its mission, the following goals have been identified to be given special emphasis in the strategic plan:

1. Enhance engagement with society and industry
2. Broaden educational areas
3. Improve internal support systems
4. Enhance student experience
5. Broaden funding base
6. Attract international students and faculty
7. Advance frontiers of knowledge
8. Enhance diversity
9. Enhance alumni engagement
10. Develop a cleaner and greener campus



Sri. Dr. K.C. Shekar Reddy
Secretary

Secretary's Message

The Institute is committed to generating disseminating and preserving knowledge and to work with other to bring this knowledge to confront the world challenges. SCIENT is dedicated to provide its students with education that combines rigorous academic study and excitement of discovery with the support and intellectual stimulation of a diverse campus community. Developing a strong bilateral relationship with Industry and leading professional Institutions within our country and abroad. Hence the student can able to work wisely, creatively and effectively for betterment of Human kind.

SCIENT Educational Society is pioneer in the realm of Education having track record of 6000 students placed globally. Our aim is to provide 100% placements to all our B.Tech, M. Tech, MBA and Pharmacy students. The Society has wide range of relationships with multinational companies and National companies can conduct campus drives every year.



VISION AND MISSION OF THE INSTITUTION

Vision of the Institution:

To impart quality education in building engineering and management professionals striving for a symbiosis of innovative technological excellence, research and human values with global standards to meet skills, knowledge and behavior of industry and societal needs with global exposure .

Mission of the Institution:

- To achieve excellence by imparting innovative Teaching & Learning and Research
- To generate, empower, disseminate, and preserve knowledge and information.

- To render social relevant technical services and inculcating entrepreneurial talents in technological advancements.
- To nurture, inculcate and develop skills, knowledge and attitudes to render technical services for industry and societal needs.

Quality Policy:

SCIENT INSTITUTE OF TECHNOLOGY is committed to prepare high standards Engineering & Management professionals with global technical skills, knowledge , leadership quality attitudes by usage of consistent advance ICT Teaching- Learning , innovative research and providing technical services for continual empowerment in enabling quality management system, practice, training and incubating for real time requirements and utility .

Strategy:

To translate the vision into action and accomplish the mission, SNTI should strive to:

- a) Provide state-of-the-art infrastructure.
- b) Recruit, develop and motivate high caliber diverse faculty.
- c) Continuously review and innovate teaching methods and learning resources.
- d) Focus on research, education, training and consultancy through an integrated industry- institute interaction

Quality Objectives

- To become dynamic, vibrant ,demand driven, quality conscious ,efficient ,forward looking and responsive to rapid economic and technological development occurring both at National and International level so as to offer instructions in

Science and Engineering at the level comparable to the very best anywhere in the world.

- To strive for total quality management in order to have quality faculty and churn out quality students having power in their technical/managerial domain with cultural values.
- To prepare Students for a life time leadership.

PRINCIPAL OF THE INSTITUTION



Dr G.Anil Kumar

B.Tech ; M.Tech; P.hD

Computer science Engineering

Dr G.Anil Kumar graduated from Osmania University. He has an excellent academic record. He obtained his masters in Software Engineering from Jawaharlal Nehru Technological University Hyderabad, Telangana State. He was awarded Doctorate for “Code cloning with refactoring support using textual and metric analysis in software” in the department of Computer Science Engineering from the prestigious JNTU Hyderabad.

Dr G.Anil Kumar has guided number of B.Tech and M.Tech (CSE) students for their projects. He has attended several national and international conferences. He delivered lectures in various Engineering colleges in and around Hyderabad. He published over 24 research papers in various National and International journals/ conference proceedings.

Dr G. Anil Kumar has 18 years of teaching experience and 1 year of industry experience. He was instrumental in conducting many national and international conferences at Mahatma Gandhi Institute of Technology, Hyderabad. He is a member of Board of Studies for Department of Computer Science in various autonomous institutions.

Dr G. Anil Kumar is competent enough to guide the students in all spheres of life. His hard-working nature empowers success to the institution. With his managerial skills, he can strive for the growth and development of the institution.

Objectives

- Develop a campus which promotes higher learning and research.
- Recruit and retain a diverse faculty of outstanding teacher-scholars with principles and discipline.
- Promote industry - institute interactions.
- Expose students to leading Industries and Corporate Houses
- Foster a harmonious, cordial and tripartite relationship among the Management, Faculty and students for their respective growth and for establishing a congenial academic environment in the Institute.

Short Term Goals

- Quality assurance and endurance through NAAC.
- Achieving academic excellence in the Examinations.
- Encouraging active participation in co-curricular and extra-curricular activities through Club activities.
- Helping to excel in communication inter-personal and soft skills
- Providing environment and opportunities for multi-skills development through Campus Recruitment Training (CRT) and add-on courses.
- Organizing programs on personality development and entrepreneurship to foster Qualities of leadership and entrepreneurship.

- Providing 100% placement for eligible students.

Long Term Goals

- To attain the status of Centre of Excellence in Technical Education and Research
- To evolve as a University offering programs of relevance in emerging areas of Technology.
- To offer viable programs of related for up liftment of rural students
- To undertake national and internationally acknowledged research and development works in all disciplines by forging alliances with research organizations , government sectors, industries and alumni.

Teaching-Learning:

Strategies:

- To introduce innovative methods of teaching such as cooperative learning, parallel teaching and group teaching for quality and multi disciplinarily.
- To use modern tools such as Animation, simulation and visual tools in teaching
- To encourage enhanced student participation in teaching through group discussions, debates, role play and case studies.
- To adopt research based teaching for better learning outcomes
- To introduce the concept of focus groups for enhanced learning
- To adopt technology assisted learning tools such as MOOCS, NPTEL, and other self e-learning content.
- To provide additional learning platforms and resources for self-learning and practice
- To assign real time case studies for literature survey and research

S. No.	Activity	ACADEMIC YEAR				
		2015-16	2016-17	2017-18	2018-19	2019-20
1.	Establishment of smart class rooms / studios	✓	✓	✓	✓	✓
2.	Adopt research based teaching for better learning outcomes	✓	✓	✓	✓	✓

3.	Comprehensive Faculty Appraisal system	✓	✓	✓	✓	✓
4.	Introduction of MOOC/NPTEL	✓	✓	✓	✓	✓
5.	Scope for self-learning	✓	✓	✓	✓	✓
6.	Subscription to e-resources	✓	✓	✓	✓	✓



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Research & Development:

Strategies:

- To recruit faculty with a talent and competence in research
- To equip laboratories with relevant modern equipment, software and library resources to ensemble research demands.
- To forge into alliances with prominent research groups for collaborative work.
- To apply external research funding from private and government sectors in focused cutting edge areas.
- To create inter-disciplinary research groups for prospective applied research.
- To approach industry for setting-up of research laboratories on campus or the benefit of faculty and students.
- To identify areas of expertise in each domain for offering technical consultancy
- To approach agencies for marketing capital and technical resources
- To prepare department news letter highlighting the expertise and facilities
- To lend the technical services such as sophisticated equipment and software to others on payment basis.

S. No.	Activity	ACADEMIC YEAR				
		2015-16	2016-17	2017-18	2018-19	2019-20
1.	Recruitment of Faculty with Research abilities	✓	✓	✓	✓	✓
2.	Equip laboratories with research suitable equipment / software	✓	✓	✓	✓	✓
3	Industry Support Laboratories	✓	✓	✓	✓	✓
4.	Recruitment of faculty in each area of specialization	✓	✓	✓	✓	✓
5.	Technical services such as sophisticated equipment and software	✓	✓	✓	✓	✓


Training Programs:

Strategies:

- To offer variety of training modules to suit higher education or perspective career
- To create online portals with high quality training database to practice
- To continuously provide mentoring with experts from industry to appraise of the industry demands relevant skill set.
- The core departments shall offer training in technical domains.

S. No.	Activity	ACADEMIC YEAR				
		2015-16	2016-17	2017-18	2018-19	2019-20
1.	Mentoring with experts from industry	✓	✓	✓	✓	✓
2.	Procurement of online training material	✓	✓	✓	✓	✓
3.	Technical domain training	✓	✓	✓	✓	✓





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Placements:**Strategies:**

- To create institute portfolio showcasing its strengths, facilities and talent pool of students.
- To collaborate with top industries and corporate sectors for students placements in core areas and IT filed.
- To provide student internships in industry for real time exposure.

S. No	Activity	ACADEMIC YEAR				
		2015-16	2016-17	2017-18	2018-19	2019-20
1.	Creating institute portfolio	✓	✓	✓	✓	✓
2.	Core companies planned	✓	✓	✓	✓	✓




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Entrepreneurship:

Strategies:

- To identify students who are processing entrepreneurial interests
- To organize special awareness and training for students in developing the required skill set for entrepreneurship with the participation of successful entrepreneurs.
- To arrange for interactions of students with investors and other financial entities for prospective funding for their ideas.
-

S. No.	Activity	ACADEMIC YEAR				
		2015-16	2016-17	2017-18	2018-19	2019-20
1.	Organize special awareness and training for entrepreneurs	✓	✓	✓	✓	✓
2.	Interactions of students with investors and other financial entities	✓	✓	✓	✓	✓
3	Promoting student Entrepreneurs	✓	✓	✓	✓	✓



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Incubation centers and Start-Ups:

Strategies:

- To establish incubation centers in specialized areas of Engineering filed
- To invite industry and corporate to set up incubation centers on campus.
- To encourage students and faculty to establish research and development start-ups on campus.

S. No.	Activity	ACADEMIC YEAR				
		2015-16	2016-17	2017-18	2018-19	2019-20
1.	Establish incubation centers	✓	✓	✓	✓	✓
2.	Encourage students and faculty to establish start-ups on campus.	✓	✓	✓	✓	✓



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Faculty Development:

Strategies:

- To prepare an Institutional comprehensive training development plan for faculty and staff.
- To support faculty in qualification up gradation

S. No.	Activity	ACADEMIC YEAR				
		2015-16	2016-17	2017-18	2018-19	2019-20
1.	Institutional comprehensive development plan	✓	✓	✓	✓	✓
2.	Qualification up gradation of faculty to Ph.D	✓	✓	✓	✓	✓
3.	Faculty self appraisal system	✓	✓	✓	✓	✓
4.	Faculty incentives for higher education and Research & Development	✓	✓	✓	✓	✓



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Student Development:

Strategies:

- To establish Student Activities and Professional Society Activities.
- To organize extensive interactions of students with experts from industry and premier institutions.
- To sponsor students for industrial training and internship for real time experience

S. No	Activity	ACADEMIC YEAR				
		2015-16	2016-17	2017-18	2018-19	2019-20
1.	Establish Student Activity Center	✓	✓	✓	✓	✓
2.	Organizing Student Activities	✓	✓	✓	✓	✓
3.	Organize extensive interactions of students with experts from industry and premier institutions	✓	✓	✓	✓	✓
4.	Sponsor students for industrial training and internship	✓	✓	✓	✓	✓



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Industry Interaction:

Strategies:

- To interact with industry for faculty, staff and student development
- To tie-up with industry for setting up of advanced laboratories on campus.
- To collaborate with industry for starting joint educational programs
- To recruit professionals from industry as adjunct faculty
- To seek feedback and inputs from industry on curricular aspects and skill development.

S. No.	Activity	ACADEMIC YEAR				
		2015-16	2016-17	2017-18	2018-19	2019-20
1.	Interact with industry for faculty, staff and student development	✓	✓	✓	✓	✓
2.	Seek feedback and inputs from industry on curricular aspects and skill development	✓	✓	✓	✓	✓
3.	Collaborate with industry for starting joint educational programs.	✓	✓	✓	✓	✓
4.	Invite industry to set up finishing school concept	✓	✓	✓	✓	✓



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Alumni Interaction:

Strategies:

- To maintain and update the alumni digital database
-
- To establish Alumni Association with prominent Alumni on the Governing Body
- To start alumni chapters in prominent places where most of our alumni are employed or doing business.
- To create an eco system for alumni to give back to the Institution in cash or technology transfer.
- To provide special facilities and privileges to the Alumni on campus during their visit to make them feel comfortable.

S. No.	Activity	ACADEMIC YEAR				
		2015-16	2016-17	2017-18	2018-19	2019-20
1.	Alumni Online database	✓	✓	✓	✓	✓
2.	Start alumni chapters in prominent places	✓	✓	✓	✓	✓
3.	Alumni Committee	✓	✓	✓	✓	✓
4.	Conduct Alumni Meets at every year	✓	✓	✓	✓	✓



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ROAD MAP OF SCIENT COLLEGE FOR FIVE YEARS DEVELOPMENT

- Collaboration for research with national level to conduct of international conferences any one of the dept.
- Result pass% to at least by 21%
- Placement overall % to by 70-90%
- Research paper publications to se by 35-40%
- NAAC accreditation with A Grade

2016

- NBA accreditation for EEE,CSE & ECE Dept
- Results pass % to atleast by 8%
- Placement overall % increased by 70 %
- Research paper publications to increased by 15%

2017

- Research collaboration with international research Organization
- Tech park inside campus
- Funded Research projects
- Student exchange programe

2018

- To conduct international Conference
- Getting autonomous status approval from UGC
- Obtaining center of excellence

2019

- More causes of excellence in collaboration with international research organization
- Funded research projects

2025

Strategic plan for :

SCIENT INSTITUTE OF TECHNOLOGY

The SNTI has distinguished itself among the nation's top engineering colleges for its commitment to reaching beyond the boundaries of traditional disciplines in pursuit of innovation and solutions to real-world problems. Our strategic plan honors and expands upon that core strength, aligning the College's people, processes and priorities around a common vision.

The title of the plan—Expanding Collaboration; Empowering People; Elevating Impact—expresses our vision for becoming an even more significant contributor of solutions to the world's problems, and a visible thought leader on vital topics within our areas of expertise. We intend to build upon our solid foundation as a world-class engineering college with a distinct identity and a reputation for excellence. Our intent is bolstered by our legacy of innovation and collaboration and is grounded by our core values.

The plan will serve as the measuring stick against which we evaluate our decisions over the next five years. It establishes a common vision of our destination, and defines the route for our journey. It reaffirms our commitment to collaborate with our colleagues across disciplines in higher education, government and industry in pursuit of breakthrough discoveries and transformative solutions.

We move forward with renewed energy and dedication to advancing the science of engineering and its practical application to solving the salient problems of our time.

- Vision & Mission
- Leadership
- Strategic plan for Diversity, Equity & Inclusion.

Strategic Objectives

We are proud of who we are and what we have accomplished. We will stay true to our interdisciplinary mindset by the choices we make in hiring, the students we select to join us, and the research challenges we undertake. Our faculty, students, and staff are given the resources and freedom to experiment. Our education is characterized by engaging classroom experiences paired with hands-on application of knowledge in well-equipped laboratories and workshops.

Our "maker" culture is ingrained in all that we do, leading to novel approaches and transformative results. Our impact is disproportionate to our smaller size because the mindset and methods we employ catalyze innovation.

We will achieve our vision by expanding collaboration, empowering our people, and elevating the impact of our work. We, therefore, direct our strategic energies over the next five years toward four key objectives that further advance meaningful research and continually fortify the scientific community with well-trained minds.

1. Achieve and be recognized for extensive integration across engineering and other discipline in our research and scholarship while maintaining strength in core disciplines.

Over the next five years, we will expand our engagement in "boundary less" discovery through targeted growth of our interdisciplinary research and teaching initiatives. By investing in more cross-college initiatives, establishing mechanisms for departments to share space and expanding the number of integrated research initiatives we will not limit ourselves to the confines of SNTI in our pursuits, but will proactively extend our outreach across the state. Notwithstanding, we believe that strength in our core disciplines is prerequisite to productive interdisciplinary collaboration. Therefore, achievement of this objective requires that we apply focus to maintaining the high quality of those core fields of study.

We will seek out additional opportunities to participate in the global dialog on issues of importance to society where our research and scholarship can have a positive impact. We choose this purposeful, holistic approach to the sharing and pursuit of knowledge because it builds on our inherent strengths and it is precisely what is needed in our increasingly interconnected and complex world.

2. Provide a world-class, campus –based educational experience that engages students’ minds, hands and hearts.

Our mission is to produce creative and technically strong engineers. We choose to do this in a campus-based setting where students are immersed in an environment that engages them in classroom discussions, research with faculty

and hands-on, experiential learning. However, we also commit to use more technology-enhanced educational approaches that increase the quality of student learning outcomes.

Campus-based education requires significant resources on the part of the college and the student. Accordingly, by fostering an environment for educational innovation and hands-on experience we commit to delivering an educational experience that cannot be fully replicated online.

The personal interaction of faculty and student immeasurably enriches the educational experience. Our faculty engages students in collaborative group settings, in discussion and debate, and in laboratory and workshop experiences. We significantly challenge our students to take on unusual problems, to be innovative, to be inquisitive, and to take full advantage of our "maker" environment.

Our students should trust that failure is tolerated if it leads to new knowledge being acquired, that interpersonal skills are as important as intrinsic knowledge, and that all of the College's courses and locations are accessible to them no matter which campus or learning center they are attending.

3. Energize, Equip, and Motivate our faculty and students to achieve excellence and to enjoy a high quality of life.

Within the Scient campus we have, and will, continue to operate with an authentic concern for the lives of our faculty, students, and staff. We seek excellence; we are intentional about being genuine and respectful; we welcome diverse backgrounds and perspectives; we act with integrity; and we trust and are trustworthy. It is these core values that propel us to incorporate in this plan an

objective to energize, equip, and motivate our faculty, students, and staff to achieve excellence and to enjoy a high quality of life.

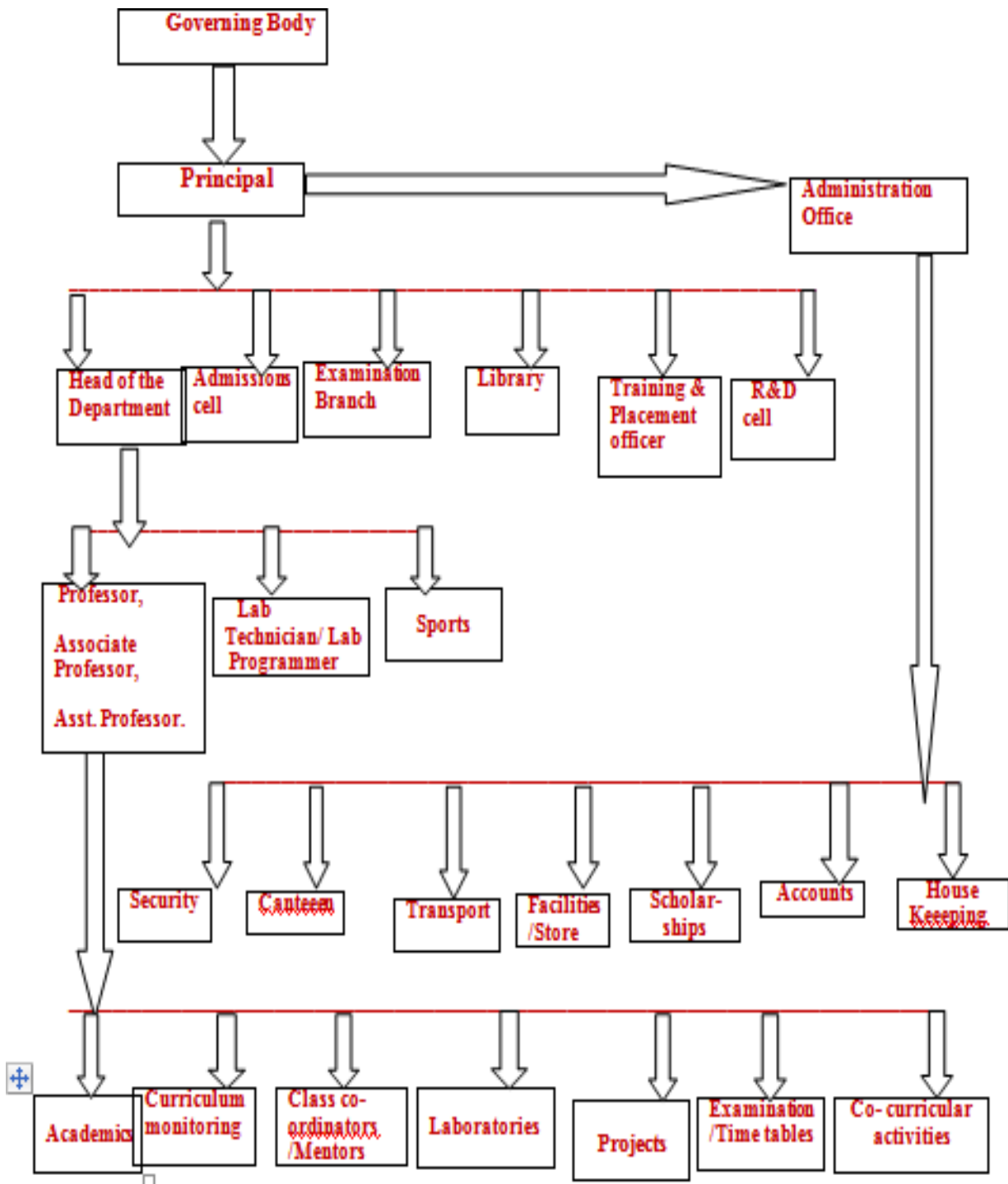
By providing our faculty, students and staff, with comfortable surroundings, appropriate workspaces and an undeniable sense that every individual in our employ and under our instruction is welcome, we will continue to maximize productivity in a collaborative, efficient and positive work environment.

4. Drive the intellectual and economic vitality of our community, nation and world .

The successes of our Scient Institute of Technology is significant and many. We will continue to make significant contributions to the intellectual and economic vitality of the world through our discoveries and innovations. As we open our doors to ideas and opportunities, we will invite bright minds from around the globe to join us in our on-going quest for discoveries that transform the world into a better place to live and work.

By expanding our participation and influence in State research forums, we will have a stronger voice on the stage to share our insights and discoveries on emerging issues. We will form deeper industry ties, and increase opportunities to collaboratively develop solutions to broad problem statements that create economic value through new products that are useful, usable, and desirable in the marketplace. We will seek to develop new relationships to expand research opportunities beyond traditional sponsors. We will work to strengthen ties to our alumni, providing them a meaningful, life-long connection to the SNTI, and drawing on their experiences to enrich our programs and our students.

ORGANIZATIONAL CHART OF SCIENT



(ADDITIONAL INFORMATION)



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The institutional Strategic / Perspective plan is effectively deployed

Response:

The perspective/strategic plan is made by institution to fulfill requirements of industry and society by providing quality education to produce technically competent Engineers and Managers to serve the nation. Student's progression towards technical and social excellence is achieved with well established infrastructure. Institute has developed a strategic plan of establishing IQAC in 2015 for ensuring quality in Teaching and learning, enhancing industry institute interaction, innovation and incubation centre, promotion of research in staff and students. Successfully Implemented:

1. Internal Quality Assurance Cell (IQAC)

According to the strategic plan which is in line with vision of our institution, IQAC was established in the year 2015-2020. In our institute all major tasks related to teaching -learning, Academic and Administration planning, implementation is being monitored by Internal Quality Assurance Cell (IQAC).

IQAC has made constant efforts to shift from the traditional teacher-centric approach to a student-centric approach. Some of the initiatives taken are:

- Periodical review of teaching learning process.
- Monitoring student academic progress.
- Adapting to student centric, ICT enabled and interactive teaching learning

- Scope for Self-learning
- Prominent academicians from reputed institutions were invited for guest lecturers on advanced topics.
- Organizing expert sessions on various teaching-learning and pedagogic methods.
- Organizing faculty enrichment programmers.
- Internal Quality Assurance Cell (IQAC), SNTI conducts Academic Administrative Audit (AAA) at regular intervals. Based on AAA report, suggestions are given to concern for improvement based of the discrepancies found during audit.

2. Research and Development

Research and Development was institutionalized and many research papers were published through peer reviewed journals in the year 2020-25. Some of the initiatives taken are:

- Recruitment of Faculty with Research abilities
- Equipped laboratories with research suitable equipment / software
- Technical services such as sophisticated equipment and software

3. Training and Placements

To offer variety of training modules to suit higher education or perspective career. To continuously provide mentoring with experts from industry to appraise of the industry demands relevant skill set.

The core departments shall offer training in technical domains. Some of the initiatives taken are:

- Technical domain training by TASK through placements department
- Student internships through AICTE Internshala and Placements departments



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ICT Teaching- Learning, innovative research aptitude and providing technical services for continual empowerment in enabling quality management system, practice, training and incubating for real time requirements and utility.

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To translate the vision into action and accomplish the mission, SNTI should strive to:

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- c) Continuously review and innovate teaching methods and learning resources.
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- To become dynamic, vibrant, demand driven, quality conscious, efficient, forward looking and responsive to rapid economic and technological development occurring both at National and International level so as to offer instructions in Science and Engineering at the level comparable to the very best anywhere in the world.
- To strive for total quality management in order to have quality faculty and churn out quality students having prowess in their technical/managerial domain with cultural values.
- To prepare Students for a life time leadership.

SWOC ANALYSIS

Scient Institute of Technology (SNTI) was established in 2001. It has been in the forefront during the last sixteen years in providing quality technical education. SNTI is affiliated to Jawaharlal Nehru Technological University Hyderabad in Telangana State. The Institute has strengths, weaknesses and opportunities. It is required to address the weaknesses to meet the needs of stakeholders and society. The Institute needs to address the challenges to provide the quality of technical education.

Methodology:

A SWOC analysis of the Institute system is carried out using the following evaluation methods:

- Students and other stakeholder's feedback
- Self-appraisal of faculty
- Academic Audit

Inferences:

- Feedback from the students and other stakeholders is collected and based on their feedback, the DAB meetings are conducted to include the modifications suggested.
- The self- appraisal of faculty is useful to evaluate the role, performance and individual contributions such as academics, research publications.
- The Academic Audit of Institute gives improvement in the quality of teaching, research, conferences/workshops conducted and interaction with industry. The Best practices adopted to improve the quality of technical education can also found from the Academic Audit.

Institutional strengths

- Committed Leadership with a vision to establish an institute in the rural area to provide an opportunity for students to pursue their higher education.
- Well qualified and experienced faculty

- Academic performance by means of reasonably good students' enrolment at UG level.
- Good Placement record of students.
- Good infrastructure, research facilities and good academic interaction with multidisciplinary departments .
- Student's participation in various training programs and internships in industries and national laboratories.
- Active student environment-learning communities, programs, student organizations and clubs.
- Use of ICT tools by all faculty members.
- Well-equipped and neatly maintained Laboratories.
- Regular Parent-Teacher Meetings.
- Exclusive Training & Placement Cell with adequate facilities for training.
- Self-learning space and time for the students.
- Active participation of students in Smart India Hackthon (SIH), VISWAKARMA CHHATRA AWARDS Competitions conducted AICTE.

Institutional weakness

- Being an affiliated institute of JNTU - Hyderabad Curriculum design flexibility is limited.
- Research work for societal development and publication of patents needs to strengthen due to the dearth of senior faculty with industrial research experience.
- Industry institution interaction needs to be strengthened.
- Student-staff interaction on thrust areas of research is limited in the affiliated university curriculum.
- As most of the students are first generation learners, their communication skills need to be improved.

Institutional opportunities

- To become an autonomous institute under JNTU-Hyderabad and UGC - New Delhi.
- To encourage faculty to acquire Ph.D qualification.
- Collaborative student-projects with industries

- To encourage entrepreneurship spirit among the students by creating sensitization, awareness and capacity building programmes.
- Transform pedagogical practices and adopt latest technological relevant courses in curriculum.
- To provide training and awareness for self-reliance of the rural people.

Institutional Challenges

- Continuously decreasing trend in Engineering admissions.
- The majority of admissions are from rural areas causing concern for improvement in communication skills.
- Providing scope for employability of the students in currently dynamically changing industry due to continuous change in technology.
- Exposing the teaching faculty to the Industrial practices.

Generating funds through Research, Patents and Consultancy.

The institute is aware of a few weaknesses consciously viewed as opportunities for improvement and is forging ahead with its proven strength. The institute can avail itself of opportunities and perceive challenges to excel by seeking external funding and generating internal resources.

“Strategic Plan is developed for institutional development based on SWOC analysis”

Objective-1: Promote student community to excellence.

- Develop and maintain focus on student learning outcomes.
- Support innovative pedagogical approaches that address the needs of diverse students.
- Design a system for weak learners for remediation and acceleration.
- Encourage students with high academic caliber to undertake mini and major projects.
- Continuous training activities in Placements, Scientific, Professional and Entrepreneurial skills to make students employable.

- Provide personal attention to students by offering counseling and orientation to higher studies and research.

Objective-2: Start academically distinguished and demand driven Post Graduate (PG) programs.

Strategies:

- Conduct periodic review of industry demand and increase support for the career oriented post graduate programmers.
- Offer online, blended and flexible programs and courses.
- Start advanced programs in the fields of Artificial Intelligence, Machine learning, Data science, Neural networks, Smart grids and other application oriented multi disciplinary programs in Computer Science Engineering(CSE), Electronics and Communication Engineering (ECE) Electrical and Electronics Engineering (EEE).

Objective-3: Sustain and enhance excellence in teaching and learning.

Strategies:

- Develop a culture of pedagogy that leads to demonstrable student learning.
- Train all the faculty to current pedagogical approaches and introduce state-of-art technologies in teaching and learning process.
- Increase financial support and provide leave facilities for the faculty to upgrade qualifications, attends seminars, faculty development programmes and conferences to undergo pedagogical training and interact with academic experts.

Objective-4: Development of effective ICT tools.

Strategies:

- Provide modern Information Technologies in library, computing centers, class rooms and laboratories for teaching-learning, research and academic administration.

- Extend the library, computing and internet facilities for all faculty and students at all locations on the campus.
- Promote ICT enabled teaching-learning process.
- Create rich and robust centre of excellences for research and consultancy.

Objective-5: Increasing research & development and consultancy competence.

Strategies:

- Provide innovative modern facilities and laboratories for multidisciplinary research.
- Recruit faculty with high research profile.
- Promote increased faculty participation in research and sponsored projects.
- Increase funding support for faculty research and creative endeavors.
- Create department wise centers to make the services and products to the industry, thereby generating internal funds.

Objective-6: Enhanced interaction with industry.

Strategies:

- Interaction with industry to provide opportunities to students by exposing new technologies and research problems solving.
- Support from industry for the institution in developing laboratories, provide software and exposure on latest technologies.
- Collaborate with industry to do student projects and R&D activities.
- Training faculty and staff on latest technologies in the industry.
- Enhance employability of students by training on technical and managerial skills and provide placement opportunities.

Objective-7: Expanding local, regional and national outreach.

Strategies:

- The institute departmental centers to identify the needs of the society and provide technical services in the institute neighborhood.

- Utilize the expertise and technology of the institution to foster social, environmental and economic development in the neighborhood.

Objective-8: Governance, leadership and Accountability.

Strategies:

- Train the managerial and administrative heads of the institution in ethical and moral orientation in exercising leadership.
- Enhance the management capacity by decentralization of administration and foster participative management model.
- Provide overall satisfaction of all stakeholders through efficiency and transparency.

ACTION PLAN:

S. No.	Activity done	ACADEMIC YEAR				
		2015-16	2016-17	2017-18	2018-19	2019-20
1.	Establishment of corpus funds	✓	✓	✓	✓	✓
2.	NAAC accreditation for the institute					✓
3.	Starting new PG programs	✓	✓	✓	✓	✓
4.	Remedial classes for weak students	✓	✓	✓	✓	✓
5.	Student skill development programs (Technical, communication and entrepreneurship etc.)	✓	✓	✓	✓	✓
6.	Mentoring and orientation to	✓	✓	✓	✓	✓

	higher studies and research					
7.	Student evaluation reforms	✓	✓	✓	✓	✓
8.	Faculty development programs (FDPs) etc.	✓	✓	✓	✓	✓
9.	Qualification up gradation of faculty to Ph.D	✓	✓	✓	✓	✓
10.	Performance Appraisal of Faculty	✓	✓	✓	✓	✓
11.	Faculty incentives for research & Development	✓	✓	✓	✓	✓
112.	Conducting Guest Lectures / Seminars / Workshops / Conferences etc.	✓	✓	✓	✓	✓
13.	Industry Interaction	✓	✓	✓	✓	✓
14.	Up gradation of Library facilities	✓	✓	✓	✓	✓
15.	Up gradation of Computing facilities	✓	✓	✓	✓	✓
16.	Establishment of new labs and procurement of software	✓	✓	✓	✓	✓
17.	Training on latest tools / technologies for faculty and staff	✓	✓	✓	✓	✓
18.	Campus Recruitment Training (CRT) for placements	✓	✓	✓	✓	✓
19.	Self learning / MOOCS / NPTEL Certification	✓	✓	✓	✓	✓



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SCIENT INSTITUTE OF TECHNOLOGY



STRATEGIC PLAN

2020-2025



SCIENT INSTITUTE OF TECHNOLOGY

Ibrahimpattam, R.R Dist 501506

(NAAC Accredited, Approved by AICTE & Affiliated to JNTUH)



SCIENT INSTITUTE OF TECHNOLOGY



CORE VALUES:

The core values adopted by the Institute as enduring principles are Integrity, Excellence, Accountability, Transparency, and Empathy.

Integrity: Research and teaching shall be carried out in an environment of academic freedom and honesty. The Institute will adhere to the highest standards of ethics in all its activities .

Excellence: The Institute is committed to excellence in all spheres of its activities, and through internal and external reviews, and will work towards continuous improvement. The Institute will recognize exceptional efforts through awards and honors.

Accountability: Scient Institute of Technology has been a recipient of public funds and recognizes that it is accountable to the people of India and to all its immediate stakeholders including students, staff, faculty, alumni, and industry.

Transparency: The Institute will function according to defined procedures and rules, which will be informed to all stakeholders. The Institute will make public all important information related to its functioning.

Empathy: An awareness of the conditions of the weaker sections of our society and contributions towards solution of their problems will form an integral part of the research and education programmes of the Institute.

Goals:

SNTI as a modern research platform performs a diverse set of activities, which include: Educating high quality manpower with the required skills and knowledge at both undergraduate and postgraduate levels.

Generating new knowledge through fundamental research,

Being a repository of knowledge and of experts.

Being a source of new ideas and independent opinions through scholarship.

Being a source of innovation leading to solution of local problems, development of new products, processes, and formation of new businesses, leading to wealth and employment generation.

Growth in vibrant economies of the world has been fuelled by innovation, disruptive technology, and product development, which have roots in state of the art research and education in academic institutions.

Such institutions are strategic assets of a nation, contributing to both, national prosperity and national security. Successful institutions have strong links with local communities and industry, and contribute to the city, the region and the nation's development and growth.

It is recognized that technology has a major role in transforming lives.

Creating an enabling ecosystem for innovation and entrepreneurship is thus a key activity for progressive educational institutes.

In addition to the broad range of activities that the Institute carries out in pursuit of its mission, the following goals have been identified to be given special emphasis in the strategic plan:

1. Enhance engagement with society and industry
2. Broaden educational areas
3. Improve internal support systems
4. Enhance student experience
5. Broaden funding base
6. Attract international students and faculty
7. Advance frontiers of knowledge
8. Enhance diversity
9. Enhance alumni engagement
10. Develop a cleaner and greener campus



Sri. Dr. K.C. Shekar Reddy

Secretary

Secretary's Message

The Institute is committed to generating disseminating and preserving knowledge and to work with other to bring this knowledge to confront the world challenges. SCIENT is dedicated to provide its students with education that combines rigorous academic study and excitement of discovery with the support and intellectual stimulation of a diverse campus community. Developing a strong bilateral relationship with Industry and leading professional Institutions within our country and abroad. Hence the student can able to work wisely, creatively and effectively for betterment of Human kind.

SCIENT Educational Society is pioneer in the realm of Education having track record of 6000 students placed globally. Our aim is to provide 100% placements to all our B.Tech, M. Tech, MBA and Pharmacy students. The Society has wide range of relationships with multinational companies and National companies can conduct campus drives every year.



VISION AND MISSION OF THE INSTITUTION

Vision of the Institution:

To impart quality education in building engineering and management professionals striving for a symbiosis of innovative technological excellence, research and human values with global standards to meet skills, knowledge and behavior of industry and societal needs with global exposure .

Mission of the Institution:

- To achieve excellence by imparting innovative Teaching & Learning and Research
- To generate, empower, disseminate, and preserve knowledge and information.

- To render social relevant technical services and inculcating entrepreneurial talents in technological advancements.
- To nurture, inculcate and develop skills, knowledge and attitudes to render technical services for industry and societal needs.

Quality Policy:

SCIENT INSTITUTE OF TECHNOLOGY is committed to prepare high standards Engineering & Management professionals with global technical skills, knowledge , leadership quality attitudes by usage of consistent advance ICT Teaching- Learning , innovative research and providing technical services for continual empowerment in enabling quality management system, practice, training and incubating for real time requirements and utility .

Strategy:

To translate the vision into action and accomplish the mission, SNTI should strive to:

- a) Provide state-of-the-art infrastructure.
- b) Recruit, develop and motivate high caliber diverse faculty.
- c) Continuously review and innovate teaching methods and learning resources.
- d) Focus on research, education, training and consultancy through an integrated industry- institute interaction

Quality Objectives

- To become dynamic, vibrant ,demand driven, quality conscious ,efficient ,forward looking and responsive to rapid economic and technological development occurring both at National and International level so as to offer instructions in

Science and Engineering at the level comparable to the very best anywhere in the world.

- To strive for total quality management in order to have quality faculty and churn out quality students having power in their technical/managerial domain with cultural values.
- To prepare Students for a life time leadership.

PRINCIPAL OF THE INSTITUTION



Dr G.Anil Kumar

B.Tech ; M.Tech; P.hD

Computer science Engineering

Dr G.Anil Kumar graduated from Osmania University. He has an excellent academic record. He obtained his masters in Software Engineering from Jawaharlal Nehru Technological University Hyderabad, Telangana State. He was awarded Doctorate for “Code cloning with refactoring support using textual and metric analysis in software” in the department of Computer Science Engineering from the prestigious JNTU Hyderabad.

Dr G.Anil Kumar has guided number of B.Tech and M.Tech (CSE) students for their projects. He has attended several national and international conferences. He delivered lectures in various Engineering colleges in and around Hyderabad. He published over 29 research papers in various National and International journals/ conference proceedings, 2 Patents & 1 Book Chapter.

Dr G. Anil Kumar has 18 years of teaching experience and 1 year of industry experience. He was instrumental in conducting many national and international conferences at Mahatma Gandhi Institute of Technology, Hyderabad. He is a member of Board of Studies for Department of Computer Science in various autonomous institutions.

Dr G. Anil Kumar is competent enough to guide the students in all spheres of life. His hard-working nature empowers success to the institution. With his managerial skills, he can strive for the growth and development of the institution.

Objectives

- Develop a campus which promotes higher learning and research.
- Recruit and retain a diverse faculty of outstanding teacher-scholars with principles and discipline.
- Promote industry - institute interactions.
- Expose students to leading Industries and Corporate Houses
- Foster a harmonious, cordial and tripartite relationship among the Management, Faculty and students for their respective growth and for establishing a congenial academic environment in the Institute.

Short Term Goals

- Quality assurance and endurance through NAAC.
- Achieving academic excellence in the Examinations.
- Encouraging active participation in co-curricular and extra-curricular activities through Club activities.
- Helping to excel in communication inter-personal and soft skills
- Providing environment and opportunities for multi-skills development through Campus Recruitment Training (CRT) and add-on courses.
- Organizing programs on personality development and entrepreneurship to foster Qualities of leadership and entrepreneurship.

- Providing 100% placement for eligible students.

Long Term Goals

- To attain the status of Centre of Excellence in Technical Education and Research
- To evolve as a University offering programs of relevance in emerging areas of Technology.
- To offer viable programs of related for up liftment of rural students
- To undertake national and internationally acknowledged research and development works in all disciplines by forging alliances with research organizations , government sectors, industries and alumni.

Teaching-Learning:

Strategies:

- To introduce innovative methods of teaching such as cooperative learning, parallel teaching and group teaching for quality and multi disciplinarily.
- To use modern tools such as Animation, simulation and visual tools in teaching
- To encourage enhanced student participation in teaching through group discussions, debates, role play and case studies.
- To adopt research based teaching for better learning outcomes
- To introduce the concept of focus groups for enhanced learning
- To adopt technology assisted learning tools such as MOOCS, NPTEL, and other self e-learning content.
- To provide additional learning platforms and resources for self-learning and practice
- To assign real time case studies for literature survey and research

S. No.	Activity	ACADEMIC YEAR				
		2020-21	2021-22	2022-23	2023-24	2024-25
1.	Establishment of smart class rooms / studios	✓	✓	✓	✓	✓
2.	Adopt research based teaching for better learning outcomes	✓	✓	✓	✓	✓

3.	Comprehensive Faculty Appraisal system	✓	✓	✓	✓	✓
4.	Introduction of MOOC/NPTEL	✓	✓	✓	✓	✓
5.	Scope for self-learning	✓	✓	✓	✓	✓
6.	Subscription to e-resources	✓	✓	✓	✓	✓



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Research & Development:

Strategies:

- To recruit faculty with a talent and competence in research
- To equip laboratories with relevant modern equipment, software and library resources to ensemble research demands.
- To forge into alliances with prominent research groups for collaborative work.
- To apply external research funding from private and government sectors in focused cutting edge areas.
- To create inter-disciplinary research groups for prospective applied research.
- To approach industry for setting-up of research laboratories on campus or the benefit of faculty and students.
- To identify areas of expertise in each domain for offering technical consultancy
- To approach agencies for marketing capital and technical resources
- To prepare department news letter highlighting the expertise and facilities
- To lend the technical services such as sophisticated equipment and software to others on payment basis.

S. No.	Activity	ACADEMIC YEAR				
		2020-21	2021-22	2022-23	2023-24	2024-25
1.	Recruitment of Faculty with Research abilities	✓	✓	✓	✓	✓
2.	Equip laboratories with research suitable equipment / software	✓	✓	✓	✓	✓
3	Industry Support Laboratories	✓	✓	✓	✓	✓
4.	Recruitment of faculty in each area of specialization	✓	✓	✓	✓	✓
5.	Technical services such as sophisticated equipment and software	✓	✓	✓	✓	✓

Training Programs:

Strategies:

- To offer variety of training modules to suit higher education or perspective career
- To create online portals with high quality training database to practice
- To continuously provide mentoring with experts from industry to appraise of the industry demands relevant skill set.
- The core departments shall offer training in technical domains.

S. No.	Activity	ACADEMIC YEAR				
		2020-21	2021-22	2022-23	2023-24	2024-25
1.	Mentoring with experts from industry	✓	✓	✓	✓	✓
2.	Procurement of online training material	✓	✓	✓	✓	✓
3.	Technical domain training	✓	✓	✓	✓	✓



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Placements:

Strategies:

- To create institute portfolio showcasing its strengths, facilities and talent pool of students.
- To collaborate with top industries and corporate sectors for students placements in core areas and IT filed.
- To provide student internships in industry for real time exposure.

S. No	Activity	ACADEMIC YEAR				
		2020-21	2021-22	2022-23	2023-24	2024-25
1.	Creating institute portfolio	✓	✓	✓	✓	✓
2.	Core companies planned	✓	✓	✓	✓	✓



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Entrepreneurship:

Strategies:

- To identify students who are processing entrepreneurial interests
- To organize special awareness and training for students in developing the required skill set for entrepreneurship with the participation of successful entrepreneurs.
- To arrange for interactions of students with investors and other financial entities for prospective funding for their ideas.
-

S. No.	Activity	ACADEMIC YEAR				
		2020-21	2021-22	2022-23	2023-24	2024-25
1.	Organize special awareness and training for entrepreneurs	✓	✓	✓	✓	✓
2.	Interactions of students with investors and other financial entities	✓	✓	✓	✓	✓
3	Promoting student Entrepreneurs	✓	✓	✓	✓	✓



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Incubation centers and Start-Ups:

Strategies:

- To establish incubation centers in specialized areas of Engineering filed
- To invite industry and corporate to set up incubation centers on campus.
- To encourage students and faculty to establish research and development start-ups on campus.

S. No.	Activity	ACADEMIC YEAR				
		2020-21	2021-22	2022-23	2023-24	2024-25
1.	Establish incubation centers	✓	✓	✓	✓	✓
2.	Encourage students and faculty to establish start-ups on campus.	✓	✓	✓	✓	✓



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Faculty Development:

Strategies:

- To prepare an Institutional comprehensive training development plan for faculty and staff.
- To support faculty in qualification up gradation

S. No.	Activity	ACADEMIC YEAR				
		2020-21	2021-22	2022-23	2023-24	2024-25
1.	Institutional comprehensive development plan	✓	✓	✓	✓	✓
2.	Qualification up gradation of faculty to Ph.D	✓	✓	✓	✓	✓
3.	Faculty self appraisal system	✓	✓	✓	✓	✓
4.	Faculty incentives for higher education and Research & Development	✓	✓	✓	✓	✓



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Student Development:

Strategies:

- To establish Student Activities and Professional Society Activities.
- To organize extensive interactions of students with experts from industry and premier institutions.
- To sponsor students for industrial training and internship for real time experience

S. No	Activity	ACADEMIC YEAR				
		2020-21	2021-22	2022-23	2023-24	2024-25
1.	Establish Student Activity Center	✓	✓	✓	✓	✓
2.	Organizing Student Activities	✓	✓	✓	✓	✓
3.	Organize extensive interactions of students with experts from industry and premier institutions	✓	✓	✓	✓	✓
4.	Sponsor students for industrial training and internship	✓	✓	✓	✓	✓



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Industry Interaction:

Strategies:

- To interact with industry for faculty, staff and student development
- To tie-up with industry for setting up of advanced laboratories on campus.
- To collaborate with industry for starting joint educational programs
- To recruit professionals from industry as adjunct faculty
- To seek feedback and inputs from industry on curricular aspects and skill development.

S. No.	Activity	ACADEMIC YEAR				
		2020-21	2021-22	2022-23	2023-24	2024-25
1.	Interact with industry for faculty, staff and student development	✓	✓	✓	✓	✓
2.	Seek feedback and inputs from industry on curricular aspects and skill development	✓	✓	✓	✓	✓
3.	Collaborate with industry for starting joint educational programs.	✓	✓	✓	✓	✓
4.	Invite industry to set up finishing school concept	✓	✓	✓	✓	✓



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Alumni Interaction:

Strategies:

- To maintain and update the alumni digital database
-
- To establish Alumni Association with prominent Alumni on the Governing Body
- To start alumni chapters in prominent places where most of our alumni are employed or doing business.
- To create an eco system for alumni to give back to the Institution in cash or technology transfer.
- To provide special facilities and privileges to the Alumni on campus during their visit to make them feel comfortable.

S. No.	Activity	ACADEMIC YEAR				
		2020-21	2021-22	2022-23	2023-24	2024-25
1.	Alumni Online database	✓	✓	✓	✓	✓
2.	Start alumni chapters in prominent places	✓	✓	✓	✓	✓
3.	Alumni Committee	✓	✓	✓	✓	✓
4.	Conduct Alumni Meets at every year	✓	✓	✓	✓	✓



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ROAD MAP OF SCIENT COLLEGE FOR FIVE YEARS DEVELOPMENT

- Collaboration for research with national level to conduct of international conferences any one of the dept.
- Result pass% to at least by 21%
- Placement overall % to by 70-90%
- Research paper publications to se by 35-40%
- NAAC accreditation with A Grade

2021

- NBA accreditation for EEE,CSE & ECE Dept
- Results pass % to atleast by 8%
- Placement overall % increased by 70 %
- Research paper publications to increased by 15%

2022

- Research colloboration with international research Organization
- Tech park inside campus
- Funded Research projects
- Student exchange programe

2023

- To conduct international Conference
- Getting autonomous status approval from UGC
- Obtaining center of excellence

2024

- More causes of excellence in collaboration with international research organization
- Funded research projects

2025

Strategic plan for :

SCIENT INSTITUTE OF TECHNOLOGY

The SNTI has distinguished itself among the nation's top engineering colleges for its commitment to reaching beyond the boundaries of traditional disciplines in pursuit of innovation and solutions to real-world problems. Our strategic plan honors and expands upon that core strength, aligning the College's people, processes and priorities around a common vision.

The title of the plan—Expanding Collaboration; Empowering People; Elevating Impact—expresses our vision for becoming an even more significant contributor of solutions to the world's problems, and a visible thought leader on vital topics within our areas of expertise. We intend to build upon our solid foundation as a world-class engineering college with a distinct identity and a reputation for excellence. Our intent is bolstered by our legacy of innovation and collaboration and is grounded by our core values.

The plan will serve as the measuring stick against which we evaluate our decisions over the next five years. It establishes a common vision of our destination, and defines the route for our journey. It reaffirms our commitment to collaborate with our colleagues across disciplines in higher education, government and industry in pursuit of breakthrough discoveries and transformative solutions.

We move forward with renewed energy and dedication to advancing the science of engineering and its practical application to solving the salient problems of our time.

- Vision & Mission
- Leadership
- Strategic plan for Diversity, Equity & Inclusion.

Strategic Objectives

We are proud of who we are and what we have accomplished. We will stay true to our interdisciplinary mindset by the choices we make in hiring, the students we select to join us, and the research challenges we undertake. Our faculty, students, and staff are given the resources and freedom to experiment. Our education is characterized by engaging classroom experiences paired with hands-on application of knowledge in well-equipped laboratories and workshops.

Our "maker" culture is ingrained in all that we do, leading to novel approaches and transformative results. Our impact is disproportionate to our smaller size because the mindset and methods we employ catalyze innovation.

We will achieve our vision by expanding collaboration, empowering our people, and elevating the impact of our work. We, therefore, direct our strategic energies over the next five years toward four key objectives that further advance meaningful research and continually fortify the scientific community with well-trained minds.

1. Achieve and be recognized for extensive integration across engineering and other discipline in our research and scholarship while maintaining strength in core disciplines.

Over the next five years, we will expand our engagement in "boundary less" discovery through targeted growth of our interdisciplinary research and teaching initiatives. By investing in more cross-college initiatives, establishing mechanisms for departments to share space and expanding the number of integrated research initiatives we will not limit ourselves to the confines of SNTI in our pursuits, but will proactively extend our outreach across the state. Notwithstanding, we believe that strength in our core disciplines is prerequisite to productive interdisciplinary collaboration. Therefore, achievement of this objective requires that we apply focus to maintaining the high quality of those core fields of study.

We will seek out additional opportunities to participate in the global dialog on issues of importance to society where our research and scholarship can have a positive impact. We choose this purposeful, holistic approach to the sharing and pursuit of knowledge because it builds on our inherent strengths and it is precisely what is needed in our increasingly interconnected and complex world.

2. Provide a world-class, campus –based educational experience that engages students’ minds, hands and hearts.

Our mission is to produce creative and technically strong engineers. We choose to do this in a campus-based setting where students are immersed in an environment that engages them in classroom discussions, research with faculty

and hands-on, experiential learning. However, we also commit to use more technology-enhanced educational approaches that increase the quality of student learning outcomes.

Campus-based education requires significant resources on the part of the college and the student. Accordingly, by fostering an environment for educational innovation and hands-on experience we commit to delivering an educational experience that cannot be fully replicated online.

The personal interaction of faculty and student immeasurably enriches the educational experience. Our faculty engages students in collaborative group settings, in discussion and debate, and in laboratory and workshop experiences. We significantly challenge our students to take on unusual problems, to be innovative, to be inquisitive, and to take full advantage of our "maker" environment.

Our students should trust that failure is tolerated if it leads to new knowledge being acquired, that interpersonal skills are as important as intrinsic knowledge, and that all of the College's courses and locations are accessible to them no matter which campus or learning center they are attending.

3. Energize, Equip, and Motivate our faculty and students to achieve excellence and to enjoy a high quality of life.

Within the Scient campus we have, and will, continue to operate with an authentic concern for the lives of our faculty, students, and staff. We seek excellence; we are intentional about being genuine and respectful; we welcome diverse backgrounds and perspectives; we act with integrity; and we trust and are trustworthy. It is these core values that propel us to incorporate in this plan an

objective to energize, equip, and motivate our faculty, students, and staff to achieve excellence and to enjoy a high quality of life.

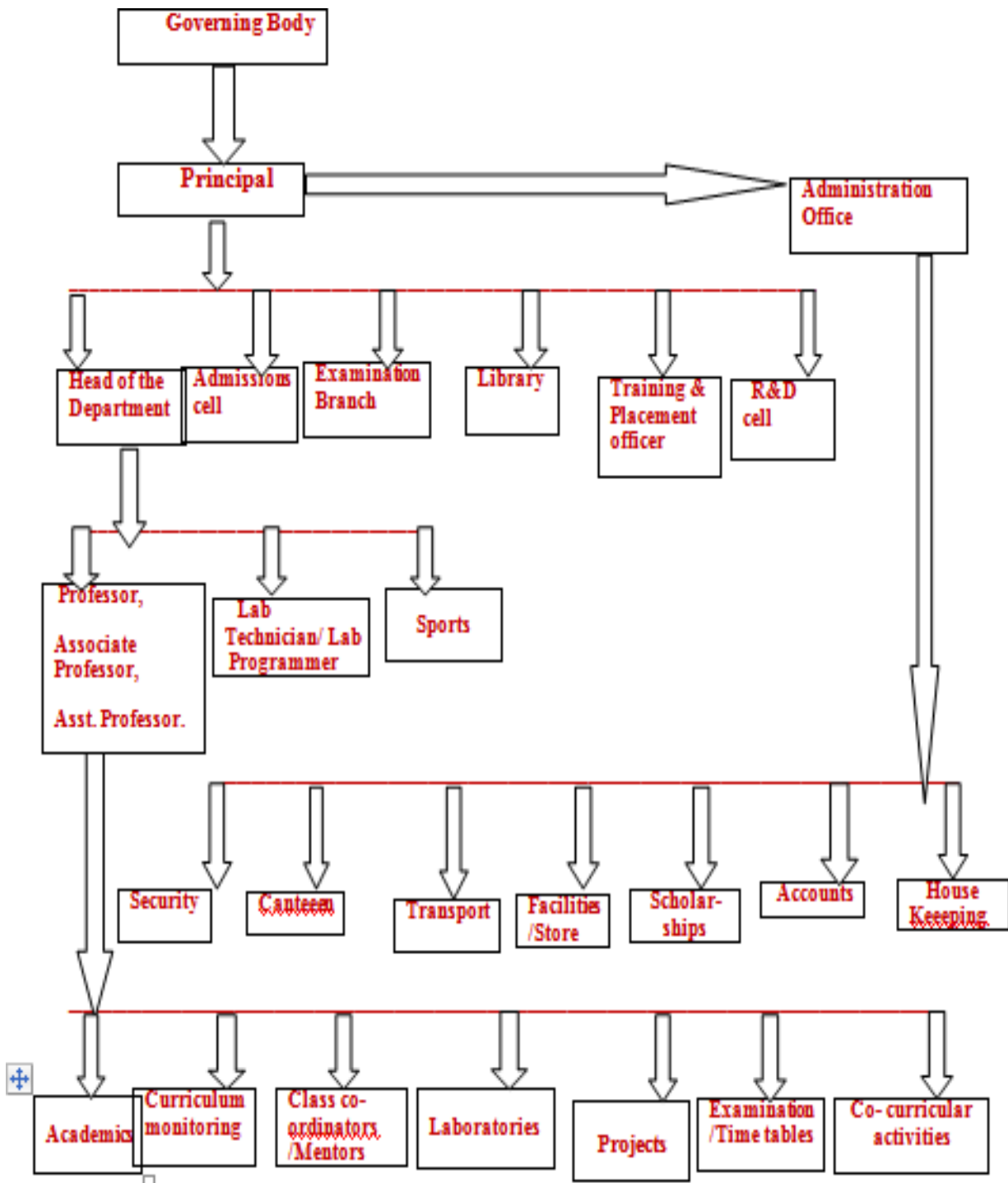
By providing our faculty, students and staff, with comfortable surroundings, appropriate workspaces and an undeniable sense that every individual in our employ and under our instruction is welcome, we will continue to maximize productivity in a collaborative, efficient and positive work environment.

4. Drive the intellectual and economic vitality of our community, nation and world .

The successes of our Scient Institute of Technology is significant and many. We will continue to make significant contributions to the intellectual and economic vitality of the world through our discoveries and innovations. As we open our doors to ideas and opportunities, we will invite bright minds from around the globe to join us in our on-going quest for discoveries that transform the world into a better place to live and work.

By expanding our participation and influence in State research forums, we will have a stronger voice on the stage to share our insights and discoveries on emerging issues. We will form deeper industry ties, and increase opportunities to collaboratively develop solutions to broad problem statements that create economic value through new products that are useful, usable, and desirable in the marketplace. We will seek to develop new relationships to expand research opportunities beyond traditional sponsors. We will work to strengthen ties to our alumni, providing them a meaningful, life-long connection to the SNTI, and drawing on their experiences to enrich our programs and our students.

ORGANIZATIONAL CHART OF SCIENT



(ADDITIONAL INFORMATION)



SCIENT INSTITUTE OF TECHNOLOGY

Ibrahimpatnam. R.R Dist - 501506

(Approved by AICTE & Affiliated to JNTUH, Hyderabad)

The institutional Strategic / Perspective plan is effectively deployed

Response:

The perspective/strategic plan is made by institution to fulfill requirements of industry and society by providing quality education to produce technically competent Engineers and Managers to serve the nation. Student's progression towards technical and social excellence is achieved with well established infrastructure. Institute has developed a strategic plan of establishing IQAC in 2015 for ensuring quality in Teaching and learning, enhancing industry institute interaction, innovation and incubation centre, promotion of research in staff and students. Successfully Implemented:

1. Internal Quality Assurance Cell (IQAC)

According to the strategic plan which is in line with vision of our institution, IQAC was established in the year 2015-2020. In our institute all major tasks related to teaching -learning, Academic and Administration planning, implementation is being monitored by Internal Quality Assurance Cell (IQAC).

IQAC has made constant efforts to shift from the traditional teacher-centric approach to a student-centric approach. Some of the initiatives taken are:

- Periodical review of teaching learning process.
- Monitoring student academic progress.
- Adapting to student centric, ICT enabled and interactive teaching learning

- Scope for Self-learning
- Prominent academicians from reputed institutions were invited for guest lecturers on advanced topics.
- Organizing expert sessions on various teaching-learning and pedagogic methods.
- Organizing faculty enrichment programmers.
- Internal Quality Assurance Cell (IQAC), SNTI conducts Academic Administrative Audit (AAA) at regular intervals. Based on AAA report, suggestions are given to concern for improvement based of the discrepancies found during audit.

2. Research and Development

Research and Development was institutionalized and many research papers were published through peer reviewed journals in the year 2020-25. Some of the initiatives taken are:

- Recruitment of Faculty with Research abilities
- Equipped laboratories with research suitable equipment / software
- Technical services such as sophisticated equipment and software

3. Training and Placements

To offer variety of training modules to suit higher education or perspective career. To continuously provide mentoring with experts from industry to appraise of the industry demands relevant skill set.

The core departments shall offer training in technical domains. Some of the initiatives taken are:

- Technical domain training by TASK through placements department
- Student internships through AICTE Internshala and Placements departments



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STRATEGIC PLAN

2020 - 2025



SCIENT INSTITUTE OF TECHNOLOGY

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VISION AND MISSION OF THE INSTITUTION

Vision of the Institution:

To impart quality education in building engineering and management professionals striving for a symbiosis of innovative technological excellence, research and human values with global standards to meet skills, knowledge and behavior of industry and societal needs with global exposure .

Mission of the Institution:

- To achieve excellence by imparting innovative Teaching & Learning and Research
- To generate, empower, disseminate, and preserve knowledge and information.
- To render social relevant technical services and inculcating entrepreneurial talents in technological advancements.
- To nurture, inculcate and develop skills, knowledge and attitudes to render technical services for industry and societal needs.

Quality Policy:

SCIENT INSTITUTE OF TECHNOLOGY is committed to prepare high standards Engineering & Management professionals with global technical skills, knowledge, leadership quality attitudes by usage of consistent advance

ICT Teaching- Learning, innovative research aptitude and providing technical services for continual empowerment in enabling quality management system, practice, training and incubating for real time requirements and utility.

Strategy:

To translate the vision into action and accomplish the mission, SNTI should strive to:

- a) Provide state-of-the-art infrastructure.
- b) Recruit, develop and motivate high caliber diverse faculty.
- c) Continuously review and innovate teaching methods and learning resources.
- d) Focus on research, education, training and consultancy through an integrated industry- institute interaction.

Quality Objectives

- To become dynamic, vibrant, demand driven, quality conscious, efficient, forward looking and responsive to rapid economic and technological development occurring both at National and International level so as to offer instructions in Science and Engineering at the level comparable to the very best anywhere in the world.
- To strive for total quality management in order to have quality faculty and churn out quality students having prowess in their technical/managerial domain with cultural values.
- To prepare Students for a life time leadership.

SWOC ANALYSIS

Scient Institute of Technology (SNTI) was established in 2001. It has been in the forefront during the last sixteen years in providing quality technical education. SNTI is affiliated to Jawaharlal Nehru Technological University Hyderabad in Telangana State. The Institute has strengths, weaknesses and opportunities. It is required to address the weaknesses to meet the needs of stakeholders and society. The Institute needs to address the challenges to provide the quality of technical education.

Methodology:

A SWOC analysis of the Institute system is carried out using the following evaluation methods:

- Students and other stakeholder's feedback
- Self-appraisal of faculty
- Academic Audit

Inferences:

- Feedback from the students and other stakeholders is collected and based on their feedback, the DAB meetings are conducted to include the modifications suggested.
- The self- appraisal of faculty is useful to evaluate the role, performance and individual contributions such as academics, research publications.
- The Academic Audit of Institute gives improvement in the quality of teaching, research, conferences/workshops conducted and interaction with industry. The Best practices adopted to improve the quality of technical education can also found from the Academic Audit.

Institutional strengths

- Committed Leadership with a vision to establish an institute in the rural area to provide an opportunity for students to pursue their higher education.
- Well qualified and experienced faculty

- Academic performance by means of reasonably good students' enrolment at UG level.
- Good Placement record of students.
- Good infrastructure, research facilities and good academic interaction with multidisciplinary departments .
- Student's participation in various training programs and internships in industries and national laboratories.
- Active student environment-learning communities, programs, student organizations and clubs.
- Use of ICT tools by all faculty members.
- Well-equipped and neatly maintained Laboratories.
- Regular Parent-Teacher Meetings.
- Exclusive Training & Placement Cell with adequate facilities for training.
- Self-learning space and time for the students.
- Active participation of students in Smart India Hackthon (SIH), VISWAKARMA CHHATRA AWARDS Competitions conducted AICTE.

Institutional weakness

- Being an affiliated institute of JNTU - Hyderabad Curriculum design flexibility is limited.
- Research work for societal development and publication of patents needs to strengthen due to the dearth of senior faculty with industrial research experience.
- Industry institution interaction needs to be strengthened.
- Student-staff interaction on thrust areas of research is limited in the affiliated university curriculum.
- As most of the students are first generation learners, their communication skills need to be improved.

Institutional opportunities

- To become an autonomous institute under JNTU-Hyderabad and UGC - New Delhi.
- To encourage faculty to acquire Ph.D qualification.
- Collaborative student-projects with industries

- To encourage entrepreneurship spirit among the students by creating sensitization, awareness and capacity building programmes.
- Transform pedagogical practices and adopt latest technological relevant courses in curriculum.
- To provide training and awareness for self-reliance of the rural people.

Institutional Challenges

- Continuously decreasing trend in Engineering admissions.
- The majority of admissions are from rural areas causing concern for improvement in communication skills.
- Providing scope for employability of the students in currently dynamically changing industry due to continuous change in technology.
- Exposing the teaching faculty to the Industrial practices.

Generating funds through Research, Patents and Consultancy.

The institute is aware of a few weaknesses consciously viewed as opportunities for improvement and is forging ahead with its proven strength. The institute can avail itself of opportunities and perceive challenges to excel by seeking external funding and generating internal resources.

“Strategic Plan is developed for institutional development based on SWOC analysis”

Objective-1: Promote student community to excellence.

- Develop and maintain focus on student learning outcomes.
- Support innovative pedagogical approaches that address the needs of diverse students.
- Design a system for weak learners for remediation and acceleration.
- Encourage students with high academic caliber to undertake mini and major projects.
- Continuous training activities in Placements, Scientific, Professional and Entrepreneurial skills to make students employable.

- Provide personal attention to students by offering counseling and orientation to higher studies and research.

Objective-2: Start academically distinguished and demand driven Post Graduate (PG) programs.

Strategies:

- Conduct periodic review of industry demand and increase support for the career oriented post graduate programmers.
- Offer online, blended and flexible programs and courses.
- Start advanced programs in the fields of Artificial Intelligence, Machine learning, Data science, Neural networks, Smart grids and other application oriented multi disciplinary programs in Computer Science Engineering(CSE), Electronics and Communication Engineering (ECE) Electrical and Electronics Engineering (EEE).

Objective-3: Sustain and enhance excellence in teaching and learning.

Strategies:

- Develop a culture of pedagogy that leads to demonstrable student learning.
- Train all the faculty to current pedagogical approaches and introduce state-of-art technologies in teaching and learning process.
- Increase financial support and provide leave facilities for the faculty to upgrade qualifications, attends seminars, faculty development programmes and conferences to undergo pedagogical training and interact with academic experts.

Objective-4: Development of effective ICT tools.

Strategies:

- Provide modern Information Technologies in library, computing centers, class rooms and laboratories for teaching-learning, research and academic administration.

- Extend the library, computing and internet facilities for all faculty and students at all locations on the campus.
- Promote ICT enabled teaching-learning process.
- Create rich and robust centre of excellences for research and consultancy.

Objective-5: Increasing research & development and consultancy competence.

Strategies:

- Provide innovative modern facilities and laboratories for multidisciplinary research.
- Recruit faculty with high research profile.
- Promote increased faculty participation in research and sponsored projects.
- Increase funding support for faculty research and creative endeavors.
- Create department wise centers to make the services and products to the industry, thereby generating internal funds.

Objective-6: Enhanced interaction with industry.

Strategies:

- Interaction with industry to provide opportunities to students by exposing new technologies and research problems solving.
- Support from industry for the institution in developing laboratories, provide software and exposure on latest technologies.
- Collaborate with industry to do student projects and R&D activities.
- Training faculty and staff on latest technologies in the industry.
- Enhance employability of students by training on technical and managerial skills and provide placement opportunities.

Objective-7: Expanding local, regional and national outreach.

Strategies:

- The institute departmental centers to identify the needs of the society and provide technical services in the institute neighborhood.

- Utilize the expertise and technology of the institution to foster social, environmental and economic development in the neighborhood.

Objective-8: Governance, leadership and Accountability.

Strategies:

- Train the managerial and administrative heads of the institution in ethical and moral orientation in exercising leadership.
- Enhance the management capacity by decentralization of administration and foster participative management model.
- Provide overall satisfaction of all stakeholders through efficiency and transparency.

ACTION PLAN:

S. No.	Activity done	ACADEMIC YEAR				
		2020-21	2021-22	2022-23	2023-24	2024-25
1.	Establishment of corpus funds	✓	✓	✓	✓	✓
2.	NAAC accreditation for the institute					✓
3.	Starting new PG programs	✓	✓	✓	✓	✓
4.	Remedial classes for weak students	✓	✓	✓	✓	✓
5.	Student skill development programs (Technical, communication and entrepreneurship etc.)	✓	✓	✓	✓	✓
6.	Mentoring and orientation to	✓	✓	✓	✓	✓

	higher studies and research					
7.	Student evaluation reforms	✓	✓	✓	✓	✓
8.	Faculty development programs (FDPs) etc.	✓	✓	✓	✓	✓
9.	Qualification up gradation of faculty to Ph.D	✓	✓	✓	✓	✓
10.	Performance Appraisal of Faculty	✓	✓	✓	✓	✓
11.	Faculty incentives for research & Development	✓	✓	✓	✓	✓
112.	Conducting Guest Lectures / Seminars / Workshops / Conferences etc.	✓	✓	✓	✓	✓
13.	Industry Interaction	✓	✓	✓	✓	✓
14.	Up gradation of Library facilities	✓	✓	✓	✓	✓
15.	Up gradation of Computing facilities	✓	✓	✓	✓	✓
16.	Establishment of new labs and procurement of software	✓	✓	✓	✓	✓
17.	Training on latest tools / technologies for faculty and staff	✓	✓	✓	✓	✓
18.	Campus Recruitment Training (CRT) for placements	✓	✓	✓	✓	✓
19.	Self learning / MOOCS / NPTEL Certification	✓	✓	✓	✓	✓



A handwritten signature in green ink, appearing to be "S. R. R.", with a long horizontal stroke extending to the right.

PRINCIPAL
Scient Institute of Technology
Ibrahimpatnam, R. R. Dt. -501 505