



SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

SCIENT INSTITUTE OF TECHNOLOGY

IBRAHIMPATNAM, RANGAREDDY DIST

501506

www.scient.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Endowed with sylvan surroundings, modern infrastructure and ambient learning environment, Scient Institute of Technology (SNTI) is forging ahead to achieve academic excellence.

The institute stood first among several competitors in the year 2001 to achieve the distinction from the state government to establish engineering institution in the entire Ranga Reddy district at Ibrahimpatnam, by Scient Educational Society spread over 26 acres of land in a serene surrounding offering quality education equipped with modern laboratories. Affiliated to prestigious Jawaharlal Nehru technological university, Hyderabad and duly approved by all India council for technical education, New Delhi.

Scient Institute of Technology (SNTI) offers B. Tech degree in Computer Science & Engineering (CSE), Electronics & Communication Engineering (ECE), Electrical & Electronics Engineering (EEE), and Master Business Administration (MBA). It was established for imparting engineering education and for promoting technological research to generate technical manpower in various areas of engineering and technology. The institution continues to prosper as a result of the keenness and hard work of the faculty, students and the administrative staff of the institution. Several outstanding personalities bestowed their blessings and beautified the institution by contributing their skills and abilities to develop each and every field.

Vision

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.

Mission

- 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.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- 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 Opportunity

- 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 Challenge

- 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.

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Scient Institute of Technology (SNTI) is an affiliated Institution of Jawaharlal Nehru Technological University (JNTU) - Hyderabad and follows the curriculum prescribed by the University. Academic calendar provided by the University is taken as the base for making curriculum delivery plan. The Principal of the college conducts meetings with the Heads of the Departments for developing detailed academic calendar for conducting curricular, co-curricular, extra-curricular activities. HODs, in turn, conduct meetings with their faculty for the

distribution of workload, preparation of class wise and Course wise time tables and course plan. Department calendar of events is derived from the college calendar of events which is specific to the department. All the faculty members submit lesson plans, course files and lab manuals of subjects they are handling, at least 1 week before the commencement of every semester / academic year, to the Academic In charge and made available to the students. Documentation of delivery of course contents is done by maintaining course files by the concerned faculty for both theory and lab courses. The contents of the course file include syllabus, history of subject, about subject handlers, pass percentage, batch and no of students, lesson plan, subject time table, lesson notes, Question bank which includes previous university question papers. Employing learner centric techniques such as assignments, peer learning, group discussion, brain storming, NPTEL lectures, case studies, field trips, industry visits, projects, and quizzes for the effective delivery of the academic courses.

The institution integrates the cross cutting issues like Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum by taking following steps:

(i) Environment - Apart from teaching Environmental Studies as a mandatory course, the institution conducts NSS Camps and Tree plantation.

(ii) Human Values - The institute integrates Human Values by conducting Blood Donation Camps, Health Awareness programs, Orphanage Visits, Motivation camps for the school students and CANCER Awareness programs through NSS.

(iii) Professional Ethics - To make the students as successful professionals in future, the institution conducts soft skills and personality development programs

Teaching-learning and Evaluation

All students are from the local area and the college needs to work to attract quality students from other parts of the state. Mentoring system exists in the Institute and is well managed. The Mentors regularly conduct meetings with their regarding their progress. Mentors are responsible to identify students who scored less than 60% marks in their internals. One faculty is allocated for every 15 students as Mentor for monitoring their attendance, punctuality, discipline and academic performance as well as to guide them through their career path. Mentor may be changed semester to semester.

In addition to traditional teaching-learning methods, the institute is highly interested in providing innovative methods for enriching the learning experience. The methodologies include illustration and special lectures, field study, case-studies, project-based-methods, experimental methods and group learning methods. The facilities arranged by the institute are (i) Lecture method: this conventional method is commonly adopted by all the teachers. This method facilitates the teacher to interpret, explain and revise the content of a text only for better understanding of the subject by the learners. At the end of instruction of each unit, the students are given with specific a assignment which enriches their learning. (ii) Interactive method: this method of learning

includes group discussion, role-play, subject quiz, news analysis, educational games and discussion with question/answers. In all the courses, tutorial classes are conducted in which problem solving skills are imparted.

Program Outcomes (POs) and Program Specific Outcomes (PSOs) for all programs are displayed in the website and also communicated to students. Most of these are common across departments and a few of these are programme specific. The program outcomes are assessed with the help of course outcomes of the relevant courses through Direct and Indirect methods. Direct measures are provided through direct examinations or observations of student knowledge or skills against measurable course outcomes. The mapping of Program Outcomes (POs), Program Specific Outputs (PSOs) with Course Outcomes (COs) has to be done in a more effective way.

Research, Innovations and Extension

The institute has a R&D Cell to monitor and address the issues of research. This cell encourages the faculty members to take up research activities by utilizing the existing facilities. It creates research culture among faculty members and students. It creates network with industries and research institutions for funding and cooperation. It provides guidance for publication of papers/articles. However, serious efforts are required to bring in externally funded research projects and publish quality research articles in peer reviewed reputed journals.

The National Service Scheme (NSS) in the Institute actively involve the undergraduate students in voluntary social service activities for the socio-economic development of the area surrounding the institution as well as the Nation at large. They are strongly connected to the neighboring villages and the nation through an emotional and moral bonding by virtue of the passion and dedication with which the students carry out the various social service initiatives.

Activities under SNTI - NSS Unit include (i) Blood Donation Camps (ii) Fund Collection and Distribution to Old age Homes and Poor Children (iii) Distribution of cloths and free medicines to slum area people (iv) Tree Plantation (v) CANCER Awareness Program (vi) Fire Safety Awareness Camps (vii) World Health day Activities (viii) Computer Awareness Programs to Rural Students and High School Teachers (ix) Conducting Classes to Students Mobilize them for Participating in Social Service Activities (x) Conducting Awareness

Program to Public on Plastic free environment (xi) Helping Physically Handicapped People (xii) International YOGA Day etc.,

Infrastructure and Learning Resources

Scient Institute of Technology has good infrastructure to cater to the needs of students. The Institute has sufficient classrooms with LCD/ICT facility and well equipped laboratories with good ambience for academic activities, good sport facility for co-curricular activities, digital library, free WI-FI access to all students and upto-date computer centre. The primary objective of the library is to support the educational and research programs of the Institute by providing physical and online access to information. The library of the institute offer access to 3633 book titles and 26192 volumes of books and hundreds of e-Journals and reference books. ECap

licensed Software makes search of all available books easy. DELNET Subscription, access all subscribed databases, consortium materials and E-resources, accessible on campus and remotely. The library has adequate number of book titles and volumes to address the academic needs. The CCTV surveillance is there

for the smooth functioning. All administrative offices of the Institute are computerized and the offices have LAN and

Wi-Fi connectivity. The internet capability of the Institute is providing by Meenakashi Teleservices Pvt Limited with 100 Mbps leased line with several servers for internet. The Institute maintains cleanliness of its Green Campus. Student's programmers are designed to learn to live and work together with achieving excellence in personal and academic areas. Training and Placement Cell provides training in aptitude, technical and personal

competencies and facilitates job placements. Career Guidance Cell creates awareness on career opportunities in emerging fields. Motivates students to take part of coaching classes in competitive exam such as GATE, CAT, GRE, and UPSC etc. Training and Placement Cell provides training in aptitude, technical and personal competencies and facilitates job placements.

Institute offers Continuing Education using ICT. The Institute has been chosen a Remote Centre for NPTEL online courses and certification initiated by IITs through NPTEL Local Chapter. Health Care Unit is available and take cares of the of health issues on campus. Grievance redressal mechanism is functional.

Student Support and Progression

A comprehensive Care System is in place to provide a 'conducive environment', for the holistic development of the students. Multi-pronged Capability Enhancement and Development Schemes include Individual Mentoring, Student development programmers', and programmers designed to learn to live and work together with achieving excellence in personal and academic areas. Student Club activities to develop variety of skills

and talents in both technical and non-technical activities. Career Guidance Cell creates awareness on career opportunities in emerging fields. Students are motivated to take part in competitive exams such as GATE, CAT, GRE, and UPSC etc.

Training and Placement Cell provides training in aptitude, technical and personal competencies and facilitates job placements.

Continuing Education using ICT: The Institute has been chosen as: 1. Remote Centre for NPTEL online courses and certification initiated by IITs through NPTEL Local Chapter.

Counseling / Mentoring services: are available for students to address the pressures of family expectations, personal expectations, academic pressure, social pressure, psychological adjustments and identity formation. Health Care Unit is there in the campus, annual medical camps, health services, Yoga Clinics etc take care of

health issues on campus. Grievance Redressal Mechanism is functional. The Alumni association needs to be registered and enhance their activities.

Governance, Leadership and Management

Conceptualization of the Institute took place resulting into development of the vision and mission, choice of study programmes, human resource requirements, networking, fund raising and sustainability. Organizational Structure is reasonably well planned. Decentralization of decision making is done at level of Head of the Departments. Process for Standard operating procedures of most of the systems in the Institute ensures quality.

Smaller Structures of Governance, with few Committees for various purposes are built in to ensure involvement and participation. Faculty Empowerment Strategies include faculty Development Programmes, Induction and Orientation Programmes, Performance Appraisal and Feedback, Refresher Courses etc. The

institute has made concrete plans to grow to level of Autonomous Institute and progressing in that direction.

The Role of the

IQAC: The IQAC is involved in planning, auditing performance, vetting strategic issues and in maintaining quality parameters. Accessibility of the Leadership afforded to everyone in the Institute to interact with all officials is a good characteristic of the Institute. IQAC takes care of lessons plans and its execution and is monitored on daily basis. The institutes could sustain and maintain reasonable strength of student's enrolment in spite of decreasing trends in engineering admissions. The progress of the institute during last five years is quite reasonable.

Institutional Values and Best Practices

The Institute addresses gender sensitive issues through various means. Equal opportunity without gender bias is visible. The social and community engagement activities are carried out through NSS and other activities of the Institute.

CCTV surveillance system in some areas is operational in the institute. The mentoring scheme with mentor to mentee is operational. Separate girls-common refreshment room has been made available.

Waste management systems are in place. Dustbins are installed at various places in the campus. Collection and disposal of sanitary waste, surgical waste is also in place. Eco-friendly, viable and integrated system of liquid waste management is implemented and the liquid waste is discharged into the soak pit/septic tank. College has attempted to maintain its campus free of plastics. Collection bins are kept at various locations to collect plastic

material. The institute has installed solar lights with sensors for lighting and illumination of the campus. Ground water recharging is being done in some part of the campus. The institution ensures transparency in its financial transactions to some extent. It also hosts the organizational manual on the website and communicates the attendance and performance in CIE through electronic reports. Transparency is maintained in internal assessment and answer booklets after valuation are shown to students. The institute also organizes national

festivals and birth / death anniversaries of the great Indian personalities. However there is no well documented IT policy, Gender Policy and Green audit. To develop communication and presentation skills among the students coming from the rural background, the institute has taken up necessary initiatives.

The distinctiveness of the institute is in creating an opportunity of higher education to the rural students and bringing them in the mainstream by providing good placement opportunities.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SCIENT INSTITUTE OF TECHNOLOGY
Address	Ibrahimpattam, Rangareddy Dist
City	Ibrahimpattam
State	Telangana
Pin	501506
Website	www.scient.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	G Anil Kumar	040-24737387	9246162822	040-24741658	scient_insteng@yahoo.co.in
IQAC / CIQA coordinator	Y V Balaram krishna Rao	040-65594666	9849350347	08414-223854	scient.naac@gmail.com

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	

State	University name	Document
Telangana	Jawaharlal Nehru Technological University	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	03-07-2022	12	

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Ibrahimpattam, Rangareddy Dist	Rural	26.02	14365

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Computer Science And Engineering	48	INTERMEDIATE	English	120	120
UG	BTech,Electronics And Communication Engineering	48	INTERMEDIATE	English	60	60
UG	BTech,Electrical And Electronics Engineering	48	INTERMEDIATE	English	60	31
UG	BTech,Computer Science And Engineering Artificial Intelligence And Machine Learning	0	0		0	0
PG	MBA,Master Of Business Administration	24	UNDERGRADUATE	English	60	60

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	13				25				44			
Recruited	13	0	0	13	17	8	0	25	29	15	0	44
Yet to Recruit	0				0				0			
Sanctioned by the Management/Society or Other Authorized Bodies	13				25				44			
Recruited	13	0	0	13	17	8	0	25	29	15	0	44
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				33
Recruited	25	8	0	33
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				33
Recruited	25	8	0	33
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				31
Recruited	20	11	0	31
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				31
Recruited	20	11	0	31
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	14	0	0	0	0	0	0	0	0	14
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	17	8	0	31	16	0	72
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties					
Number of Visiting/Guest Faculty engaged with the college?	Male		Female		Total
	0	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	116	0	0	0	116
	Female	124	0	0	0	124
	Others	0	0	0	0	0
PG	Male	33	0	0	0	33
	Female	27	0	0	0	27
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years

Category		Year 1	Year 2	Year 3	Year 4
SC	Male	26	27	28	24
	Female	21	22	16	17
	Others	0	0	0	0
ST	Male	13	14	13	13
	Female	10	11	6	6
	Others	0	0	0	0
OBC	Male	50	48	38	36
	Female	27	31	23	23
	Others	0	0	0	0
General	Male	89	97	74	77
	Female	69	67	56	51
	Others	0	0	0	0
Others	Male	9	9	6	7
	Female	4	5	4	4
	Others	0	0	0	0
Total		318	331	264	258

Institutional preparedness for NEP

1. Multidisciplinary/interdisciplinary:	The vision of National Education Policy is to provide quality education on global standards with diversity for all curriculum and pedagogy with technological innovations and teaching-learning process. The institution currently relies on the affiliated University to provide an innovative and flexible curriculum. The University JNTUH has started moving in the direction of NEP and provides environmental education and community engagement services. For students in their second and third years, the institute currently encourages multidisciplinary project-based learning, which is not credit-based. Also started the interdisciplinary certificate courses from the second year onwards.
2. Academic bank of credits (ABC):	The University has started taking steps to create an academic bank of credits, but they are still in their early phases. The institution has not registered under ABC; the only entity that may do so to access numerous entry and exits is the University. There are ongoing efforts to provide smooth research collaboration with academic institutions. The learning management system is used in terms of pedagogical approach to material and textbook, assignment, to allow some flexibility.
3. Skill development:	By partnering with the Telangana Academy for Skill and Knowledge(TASK) to run skill courses, the institution has started its efforts in skill development. Through the delivery of guest lectures and the organization of workshops, the development of humanistic, ethical, constitutional, and universal human values in the student is encouraged. The blended learning approach is also used. Association with www.task.telangana.gov.in encourages the development of fundamental skills.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	The affiliating University started and is continuing to teach the Indian Knowledge System in the curriculum. The promotion of Indian arts and culture is achieved by holding various festivals like Ganesh Chaturthi, Sankranti, Holi, Christmas etc. and holding traditional days like Raksha Bandhan etc.
5. Focus on Outcome based education (OBE):	The affiliating University has developed a good strategy to transform its curriculum towards OBE and the institutions is adopting it in totally. The institution has developed some good practices towards OBE by having well defined process to evaluate the outcome

	from Program Educational Objectives (PEO), Program Specific Objectives (PSO) and Course Outcomes (CO) for all courses. In addition, all the students are assessed as per the OBE model.
6. Distance education/online education:	Distance education has not been initiated for the engineering courses offered by the affiliating university and as such the institute has no such provision. The institute established a specific division Education Development Division (EDD) which will introduce the blended learning. The college has all the necessary infrastructure and necessary tools to offer online education, and this was extremely useful during the Covid-19 pandemic. The institute was highly successful in offering online classes through a myriad of online platforms such as Zoom, Google meet, Microsoft teams.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	Yes, Our college has been set up an Electoral Literacy Club(ELC). An Electoral Literacy Club is a platform to engage students above 18 years of age through interesting activities and hands-on experience to sensitise them on their electoral rights and familiarise them with the electoral process of registration and voting as per Government of Telangana.
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	The club will have student co-coordinator and co-coordinating faculty members as its members. One can become a member by registering herself/himself at the beginning of the academic year. After registration, one is recognised as a member till the completion of her/his graduation course.
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior	Our college organises festive event by the ELC members. The students have the choice of making this event open to all city colleges or organise it exclusively for its own college students. The Festival/ Mahothsav will bring together members of all college societies to organise an array of events.A few event suggestions are Election Quiz, Voters Pledge, Wall of Democracy etc.

<p>citizens, etc.</p>	
<p>4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to advancing democratic values and participation in electoral processes, etc.</p>	<p>The ELC in college is expected to have its own dedicated Social Media handles (Facebook, Twitter, Instagram and such). ELC's will regularly hold activities/contests on this page and also try to reach out to audiences with messages of voter awareness. ELC members will prepare a short video reporting the proceeding from their nearest polling station if there is an election being held in their constituency and post it on their social media handle.</p>
<p>5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.</p>	<p>SCIENT is working towards preparing India's electors and equipping them with basic knowledge related to the electoral process. Our primary goal is to build a truly participative democracy in India by encouraging all eligible citizens to vote and make an informed decision during the elections. Our College is always looking forward in achieving the aim of building a stronger democracy through greater synergy with Civil Society Organisations, Media and Corporate Houses and even greater queries, suggestions, and participation from individuals.</p>

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
937	844	683	589	497
File Description		Document		
Institutional data in the prescribed format		View Document		

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 211

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
82	90	82	108	149

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
173.73	150.7	184.39	153.43	267.46

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

Scient Institute of Technology is affiliated to JNTUH University and approved by AICTE and ISO

9001:2015 certified.

Curriculum planning:

- Based on the Almanac provided by the affiliating University, Institute prepares the Academic calendar and forwards it to all the departments.
- Respective departments prepare the academic calendars with proposed academic activities.
- Timetables are prepared including the library and project hours and are uploaded to the Institute website and displayed on all department notice boards.
- The Head of the Department allocates the courses to the faculty members as per their expertise and option. Class wise time tables will be prepared for effective planning and delivery of courses.
- Teachers are encouraged to impart the curriculum through student centric learning methods, such as presentations, assignments, group discussions, workshops, quiz, seminars, projects, industrial visits, etc., besides the regular/traditional chalk and talk methods.
- The Head of the Department monitors the academic activities on a regular basis by verifying monthly syllabus coverage report to ensure the execution of effective teaching learning process as per the academic calendar, and finds the gap, if any.
- The academic performance of students is continuously and meticulously monitored by conducting Mid Term exams, during the semester to assess the attainment of Course Outcomes (COs).

Curriculum Delivery

- Subjects are allocated to the faculty based on the area of specialization, experience and competency.
- The faculty members prepare the course outcomes and map them to the Program outcomes.
- The faculty members prepare lesson plan and course file.
- The Class monitoring committee collects the feedback from the students on syllabus coverage and academic related matters.
- Online E-learning resources like NDL,DELNET, E SHODHSINDHU and Learning Management systems (LMS) are used to enhance the concepts of engineering knowledge.
- Industry visits and guest lectures are arranged to bridge the curricular gap.
- Students are motivated to participate in various technical events.

CIE with revised Blooms taxonomy.

- The University provides the Almanac and the Institute prepares the Academic calendar and forwards it to the departments, where department wise academic calendars are prepared. The Faculty members prepare the lesson plans and course files.
- A course file consists of course outcomes, lesson plan, suggested references, study material and solved previous examination papers. Awareness among the students on the course schedule and course outcomes is created at the beginning of the semester.
- Syllabus coverage status is verified by the course monitoring committee periodically.

Conduct of Continuous Internal Evaluation CIE:

- Performance of the students is evaluated by conducting internal examinations, assignments.
- Experiment wise performance of the students in laboratory is evaluated.
- Question papers are prepared with course outcomes and revised Blooms Taxonomy levels.
- Exam branch ensures smooth conduct of examinations.

CIE marks are uploaded to University web portal within the stipulated time as per the almanac.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.2 Academic Flexibility

1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years

Response: 99

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years

Response: 84.14

1.2.2.1 Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
914	835	478	412	348

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Response:

The curriculum offered by the university addresses the cross cutting issues like Gender, Environment and Sustainability, Human Values and Professional Ethics. The institute believes in maintaining healthy environment for all of its stakeholders.

Gender Sensitization / Gender Sensitization Lab:

JNTUH introduced a course “Gender Sensitization” to create awareness among students about sensibility with regard to issues of gender in contemporary India. The course also provides critical perspective on the socialization of men and women. It exposes students to debates on the politics and economics of work, to more egalitarian interactions between men and women. Sessions on gender help students attain a finer grasp of how gender discrimination works in our society and how to counter it. Emphasis is given to provide accounts of studies and movements as well as the new laws that provide protection and relief to women. Sessions also empower students to understand and respond to gender violence.

Apart from this the institution formed Grievances Redressal Cell to provide counseling, promote gender equity and also deal with related issues of safety and security of students and lady staff as well to dissolve discrepancies among students and staff.

The Objectives of this course is:

- To develop students’ sensibility with regard to issues of gender in contemporary India.
- To provide a critical perspective on the socialization of men and women.
- To introduce students to information about some key biological aspects of genders.
- To expose the students to debates on the politics and economics of work.
- To help students reflect critically on gender violence.
- To expose students to more egalitarian interactions between men and women.

Human Values and Professional Ethics / Professional Ethics:

- Through the course “Professional Ethics” students will be able to know the importance of ethics in engineering profession.
- This course is comprised of class room discussions with real life situations.
- It also focuses on ethical concerns common to human service situations.
- It is in response to a long- felt and urgent need to integrate value education with decision making skills in their professions.
- The issues in professional ethics are analyzed in the context of right understanding with the main focus on the development of ethical competence in the individuals.
- The course concludes by proposing several salient steps to undertake the journey towards holistic and value-based living.

Environmental Studies / Environmental Science and Technology:

University prescribed course “Environmental Studies/ Environmental Science and Technology”, “Disaster Management” provides students understanding of ecological balance for sustainable development, impacts of developmental activities and mitigation measures and environmental policies regulations. Institution encourages and supports students to go with plans of protecting environment like planting saplings, best out of waste and plastic free campus and training in first aid.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 84.53

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 792

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 82.27

2.1.1.1 Number of students admitted year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
318	331	264	258	212

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
330	331	300	378	342

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)

Response: 75.81

2.1.2.1 Number of actual students admitted from the reserved categories year - wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
140	132	120	118	98

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
150	150	145	186	171

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2 Student Teacher Ratio

2.2.1 Student – Full time Teacher Ratio (Data for the latest completed academic year)

Response: 11.43

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools

Response:

SNTI ensures that student-centric methods are effectively used in regular academic practices as it makes the students more self-reliant and self-motivated, and learning as interesting and effective. Instead of teacher-centric conventional teaching methods, the institution strongly believes that student-centric during course plan development, Faculty members plan for suitable student-centric learning methods for enhancing the learning experiences of the students. Learning by practice, experiments, project based learning etc., has a direct impact on improving the understanding level, communication skills, problem-solving skills, listening skills, etc. Faculty members take more effort into making the learning activity more interactive by adopting the below-mentioned student-centric methods.

Experiential Learning:

The institution imparts the following experiential learning practices to enhance creativity and cognitive level of the students

- Laboratory Sessions with advanced experiments
- Internship to expand the knowledge on market trends
- Add-on Courses on latest technologies
- Industrial visits & field visits
- **e-Learning:** The institution provides NDL , DELNET, N-DIGITAL, E-SHODH SINDU logins to access e-books & references, magazines, printed journals & e-journals, NPTEL videos., Swayam prabha DTH channel

Participatory Learning:

- Group Discussion, Debate, Role Play, Quiz
- Workshops, Guest Lecturers, Seminars
- Technical Presentation
- Periodical Industrial Visit to get insight into the internal working atmosphere of industries
- Co-curricular & Extra-Curricular activities/contests to trigger self-confidence of the students
- NSS and extension activities

Problem-solving methods:

- Practical Sessions to get Hands-on experience
- Tutorial Sessions
- Assignments
- Technical Seminar on contemporary topics cum group discussion
- Quiz Sessions
- Project Based Learning

The institution is very keen on implementing innovative methods such as online classes to make the learning experience more effective and interesting. Students are highly motivated to take part in inter-collegiate, state level and national contests, value-added courses, Add-on programs, and extension activities for their holistic development. The institution takes significant efforts to explore flipped classrooms with ICT tools and e-resources, such as NPTEL videos, e-books, PPTs, SWAYAM Prabha-DTH channel, which helps to easily transform conventional teaching process to student-centric process.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.4 Teacher Profile and Quality**2.4.1 Percentage of full-time teachers against sanctioned posts during the last five years**

Response: 100

2.4.1.1 Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:

2021-22	2020-21	2019-20	2018-19	2017-18
82	90	82	108	149

File Description	Document
Upload supporting document	View Document

2.4.2 Percentage of full time teachers with NET/SET/SLET/ Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)

Response: 13.5

2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
14	14	14	14	13

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.5 Evaluation Process and Reforms

2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Response:

The institution maintains high transparency and robustness in conducting internal assessment exams by adopting several effective mechanisms as given below:

- Schedule of Midterm examinations, syllabus and question paper pattern adhered to the academic calendar and regulations of JNTUH are displayed well in advance before the commencement of the academic session.
- Midterm examinations are conducted as per the JNTUH academic calendar.
- The evaluated answer scripts are made accessible to the students within a week to maintain transparency in the evaluation system. Scheme and keys are discussed in the classroom for each course. The issues related to awarding of fewer marks, the discrepancy in counting, etc., are resolved by the respective faculty members immediately. Subsequently, marks are displayed on the notice board to maintain high transparency.
- Attendance report for every fortnight is displayed and uploaded in the JNTUH web portal and the same is communicated to the parents through letters.
- In a technical seminar which is included as part of their curriculum for final years, the students are encouraged to give a presentation on recent and innovative topics.

- Project internal marks are awarded based on the presentation in mini and major projects reviews on presentation skills, technical skills, communication skills, and viva-voce by the committee consisting of project guide, project coordinator and head of the department.

The mechanism to resolve internal examination grievances

The issues related to internal exams are resolved by the respective faculty. When the student is not satisfied with the response from the faculty, they can approach the HOD through their mentor. Even if the issue is not resolved, they can approach Grievance Redressal Cell.

Grievance Redressal Cell

Grievance Redressal Cell takes utmost care in resolving exam related issues. This cell actively resolves the issues, such as awarding of less mark in answer scripts, seminar, assignment, counting mistakes, poor evaluation answer scripts and assignments.

Mechanisms/Authority to resolve external exam related issues

- Department Examination Cell Coordinator
- Examination Cell Officer In-charge
- The student apply for a recounting/Revaluation of the marks Within 15 days of declaration of results by paying the prescribed fee to the university.

The Examination Cell In-charge brings notable grievances immediately to the notice of the Chief Superintendent for necessary action and The University will take up all such applications and reevaluate/recount the scripts by competent subject teachers.

In the event of a student is found using unfair means during examinations, the following measures are adopted to address this situation.

Firstly, the subject expert is called to verify whether the material carried is related to the subject and mentioned in the question paper. If the material has appeared in the question paper the principal is notified about the incident. The principal then communicates the necessary recommendations to the affiliated university. The university then replies based on the letter received. The punishment is then decided and implemented by the university.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the

institution are stated and displayed on website and attainment of POs and COs are evaluated**Response:**

SCIENT has a distinct vision for the Course outcomes. By actively involving all the stakeholders, the institution is successfully implementing Outcome-Based Education(OBE) system. Program Objectives(POs), Programme Educational Objectives(PEOs), and Course Outcomes are used to determine the learning outcomes(COs).The PEOs are established in accordance with the institute's vision and describe the skill set that student possess upon completion of the programme. COs are typically defined in the JNTUH syllabus. If the university does not directly mention the COs, then the subject experts define the COs. At the start of the academic year, every faculty creates course files with information on the course objectives, course outcomes, modules, reference materials, teaching plan. The following channels of communication are used to inform about POs, PEOs, and COs:

- Website
- Classrooms
- Departmental display boards
- Laboratories through display boards
- Library

Each course concludes with a PO assessment based on the CO completion of all course requirements. For measuring the achievement of the programme outcomes quantitatively, the course outcomes are mapped to the programme outcomes.

CO-PO Attainment:

The artifacts that demonstrate the skills, personal characteristics and accomplishments required for measuring the attainments are collected from:

- 1.Direct attainment
- 2.In-Direct attainment

CO Attainment of a Course:**Computation of CO Direct Attainment in the course:**

Attainment of CO in a course = $((\text{Level1} \times \text{No. of Students Attempted}) + (\text{Level2} \times \text{No. of Students Attempted}) + (\text{Level3} \times \text{No. of Students Attempted}))/ \text{Total No. of Students.}$

COs INDIRECT ASSESSMENT TOOLS

End of Semester Course Evaluation Form: During the survey, students provide their responses on a given scale to the questions which are the COs of the respective

courses. Procedure to measure the Indirect-CO attainment of a course is same as direct attainment method, where the results are student's responses.

OVERALL CO ATTAINMENT

Computation of Attainment of COs in a course = 70% of Direct CO Attainment+ 30% of Indirect CO Attainment

File Description	Document
Upload Additional information	View Document

2.6.2 Pass percentage of Students during last five years

Response: 80.43

2.6.2.1 Number of final year students who passed the university examination year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
165	135	135	87	45

2.6.2.2 Number of final year students who appeared for the university examination year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
183	171	181	115	55

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.8

File Description	Document
Upload database of all students on roll	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 2.96

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	2.96	0	0

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

The institution has set up an innovation ecosystem to foster a culture of innovation and initiative for transfer of knowledge among the young talents in the campus. The institution keeps up the ecosystem more vibrant and conducive with state-of-the-art infrastructure and suitable scholarly human resources.

All required facilities are provided and Guidance is extended to the students and faculty. Students and faculty are encouraged to actively involved in the application of Technology for societal needs. Necessary support is provided for Documentation, Publication of Research Papers. Awareness meets, workshops, seminars and guest lectures on Entrepreneurship and Latest trends in the technology are organized. Students are provided opportunities to directly interact with outstanding entrepreneurs excelling in their field. Product service Training is provided for creating awareness on marketing the products.

The sole objective of the R&D Centre is to facilitate students and faculty to convert their Ideas into Technological Innovations. Students are provided facilities to build prototypes useful for promotion of Development of Society. Workshops on emerging trends in Technology are held. Students are awarded prizes and certificates for best models. Some of the faculty are published patents of their research work.

Students are encouraged to gain hands on experience and better Industrial Exposure. This would be an

added advantage to the students to further develop their Prototypes. Development of cost-effective society related projects are encouraged. Other Initiatives for creation and transfer of knowledge included.

Research & Development cell monitors the faculty, and students research progress and guides them time to time for better outcome. It conducted more than 25 workshops and seminars to create the culture of Innovation, Entrepreneurship and IPR among students and faculty.

Patents published by faculty:

1. A patent on “Integrated English Language Instructions through Virtual Reality Technology for College Students” by K.Sony Glory, Associate Professor, Department of English, Scient Institute of Technology.
2. A patent on “Computational Analysis of the Consistency for the Navier-Stokes Equation and the Formation of a Uniform Velocity Profile in a Channel” by B.Ramadevi, Assistant Professor, Department of Mathematics, Scient Institute of Technology.
3. A patent on “Underground Cable Fault Distance Display System over the Internet” by Dr Y.V.Balarama Krishna Rai, Associate Professor, Department of EEE, Scient Institute of Technology.
4. A patent on “SMS DRIVEN AUTOMATIC WIRELESS NOTICE BOARD” by Dr Y.V.Balarama Krishna Rai, Associate Professor, Department of EEE, Scient Institute of Technology.
5. A patent on “ENERGY MANAGEMENT SYSTEM ARCHITECTURE FOR SMART GRID TECHNOLOGY” by Dr Y.V.Balarama Krishna Rai, Associate Professor, Department of EEE, Scient Institute of Technology.
6. A patent on “OT BASED ELECTRIC VEHICLES MONITORING SYSTEM IN SMART CITIES” by Dr Y.V.Balarama Krishna Rai, Associate Professor, Department of EEE, Scient Institute of Technology.
7. A patent on “A SYSTEM FOR MEDIATING EFFECT OF FINANCIAL MANAGEMENT IN PROMOTING SUSTAINABLE BUSINESS PRACTICES & DEVELOPMENT” by G.Maruthy Raju, Assistant Professor, Department of Mathematics, Scient Institute of Technology.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.2.2 Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 60

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
17	14	10	9	10

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 1.04

3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
71	30	55	44	19

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.02

3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
2	2	0	0	0

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

The college has identified the social responsibility as one of the major priorities to act upon, which is being reflected in the Vision and Mission statements. College NSS wing is coordinating all the activities related to social responsibility. The motto of the National Service Scheme is “NOT ME BUT YOU.” This expresses the essence of democratic living and upholds the need to appreciate the other man’s point of view first and to show consideration for fellow human beings. The College has been sensitizing the students and faculty on Institutional Social Responsibilities through National Services Scheme (NSS). The college aims to develop students’ Emotional Quotient through their interaction with various challenges and hurdles faced by the people in the nearby community and encourage stakeholders to develop their positive attitude towards life. Student and faculty distributed masks and grocery kits in the neighbor villages and educated them to combat Covid-19 pandemic. The following activities are under taken by the students and faculty of the College.

1. Programme on Computer Education and higher education.
2. Student Members of NSS unit of college actively participate in blood donation camps , awareness programs to educate the community of nearby villages.

The College encourage the students to join NSS in the College. At present there are more than 400 student volunteers in NSS.

National Service Scheme (NSS):

NSS Cell of Scient Institute of Technology is very active in conducting various programs. The students actively participate in blood donation camps and environmental awareness programme under the supervision of the NSS Programme Officer. Mr.K.Saidulu, Assoc. Professor, Department of ECE. The Swachh Bharat campaign many localities have been cleaned/cleansed to inculcate the cleanliness among the general public. This has been taken up on priority basis by the NSS Unit. Further, during the rainy seasons, plantation of saplings has been taken up in a big way not only in the campus but also on the sides of thoroughfares with the active cooperation of the local officers.

Extension work is undertaken to ensure social justice and empower students from underprivileged and vulnerable sections of society: Activities are under taken by the students and faculty of the College.

- Blood donation camps
- Sanitation programs

Outreach activities and contribution to the community development. The initiatives of the College which have encouraged community participation in its activities are-

- Awareness programs on rural community development & rural education
- Awareness program on COVID & Plastic free campaign

Unnat Bharat Abhiyan (UBA)

Scient Institute of technology has agreed to participate in UBA program. Our NSS coordinator Mr.K.Saidulu has been duly authorized to carry on the activities of UBA as a Project Coordinator. In this connection we adopted five villages in Rangareddy district which was approved by the Rangareddy collector for UBA program. The main motto of this program is to build an understanding of the development agenda within institutes of Higher Education and an institutional capacity and training relevant to national needs, especially those of rural India. We adopted five villages namely Tippaiguda, Kurmida, Thakkallapalli, and Karniguda. We conducted Sanitation Awareness programs in Kurmida and Tippaiguda.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.2 Awards and recognitions received for extension activities from government / government recognised bodies

Response:

Scient Institute of Technology always encourages the stakeholders towards their goals and enrichments to fulfill their wishes. Along with studying in college, it also encourages recognition of skills. Students and teachers will be honored on their achievements and recognitions, also plans to get fellow teammates too.

The NSS Cell - SNTI continuously strives to get an appreciation by serving the society in a huge manner. It was the general habit of every member in the college. Institute encourages the social welfare activities, blood donation camps, awareness camps in and around the campus and getting a good reputation and recognitions for the service rendered.

The students are very social active and participates in every activity conducted by the college and must deliver their heartfelt service.

The following are few of the awards and recognitions bagged by the college/ the students/ faculty for their efforts.

1. Scient Institute of Technology received an appreciation from “Friends being a helping hands, an ISO certified NGO” in organizing a Harithaharam program.
2. Received an appreciation from “DELNET” for enhancing DELNET Best practices.

3. For the Best Volunteering services for the LION'S club, college got an appreciation award
4. Our Training and placement officer received an appreciation letter from Indian Institute of Technology Bombay for spreading awareness about Spoken Tutorial program.
5. Received an appreciation from SOCIETY FOR INNOVATIONS IN SCIENCE AND TECHNOLOGY in organizing Awareness programs on Covid.
6. Received an appreciation from IIT Bombay for spreading awareness on Spoken tutorial program.
7. For the active participation and social responsibility through the "Yashoda Cancer Awareness 5K Run" awarded with certification of Appreciation from Yashoda hospitals.
8. One of our student's awarded with Merit certificate from Jawaharlal Nehru Technological university, Hyderabad who had shown extraordinary efforts by winning MEGA competition in TECHNICAL QUIZ conducted by PRAGNYA 2020.
9. One of our student's awarded with Merit certificate from Telangana Yoga Association.
10. Received an appreciation from "MAKE THE WORLD WONDERFUL SOCIETY" for contribution in distributing various cloths, books to orphanage children.
11. Sakshi recognized and appreciated Scient for supporting The Rakshin project.
12. For the active participation and social responsibility through the "5K Run" awarded with certification of Appreciation from SAVE THE YOUNG HEART.
13. Our Secretary Dr.K.C.Shekar reddy honored for indomitable support extended in organizing free Pre-Recruitment training to the youth of Rachakonda in SCTPC selections.
14. One of our students received an merit certificate from NAGOLE INSTITUTE OF TECHNOLOGY & SCIENCE in Project Display Competition in the event of IMPULSE & PRAJANYA 2K19
15. Our students recognized as Campus Ambassador from Entrepreneurship Cell, IIT Kanpur for promoting and encouraging entrepreneurship activities.
16. Our NSS Coordinator received an Appreciation in participating 5K run on "Drug free Hyderabad" from AMERICAN TELANGANA ASSOCIATION, GOVT OF TELANGANA
17. One of our students awarded with an Merit Certificate at National Science day celebrations supported by NATIONAL COUNCIL FOR SCIENCE & TECHNOLOGY COMMUNICATION, GOVT OF INDIA

The college stood first in this type of recognitions and laurels. The college management is very much focused on shaping the young minds as socially responsible citizens

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

Response: 61

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year

wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
20	16	10	7	8

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.5 Collaboration

3.5.1 Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 224

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

1.ACADEMIC ACTIVITIES

SCIENT Institute of Technology provides state of art infrastructure to the students to become a globally recognized center of excellence for science, technology & engineering education, committed to quality teaching, learning and research.

- 1.The Institution has a sprawling campus spread over 26 acres with modern buildings, ICT enabled classrooms and excellent infrastructure to create a learner-centric environment.
- 2.The college has created and enhanced an infrastructure that facilitates effective teaching and learning. Frequently, the college management interacts with stakeholders regarding the College's facilities, such as classrooms, tutorial rooms, ICT enabled classrooms, laboratories, library, digital library, and seminar halls. These are regularly upgraded to meet the requirements, and every department has its own computing resources and department library.
- 3.The institute emphasizes co-curricular and extra-curricular activities. Outdoor and indoor sports and games help students to improve qualities like leadership, team spirit, and competitive spirit.

2.LABORATORIES

- 1.The laboratories are equipped with state-of-the-art equipment and are more than sufficient to conduct experiments as per the JNTUH University curriculum. The programming laboratories are equipped with open source & licensed software as per JNTUH regulations.
- 2.Students are encouraged to conduct case studies in emerging areas of research in addition to the regular curriculum.
- 3.The college has established **Research & Development Laboratory** facilities in specific areas to inculcate research habits among the student fraternity.

3.SPORTS AND GAMES

Students are trained and supervised by experienced physical directors who participate in various sports and games activities and competitions. During their allocated time, physical directors train students in their chosen games. It has a spacious and well-equipped indoor sports room with table tennis, caroms, chess, and gym. Well laid courts are available for games such as badminton, basketball, volleyball, throw ball, Kho-Kho, kabaddi, cricket net practice, ring tennis etc. Intercollegiate, university-level, district-level, state-level, and national competitions are encouraged by the institution

4.Cultural Activities

All seminar halls and auditoriums are provided with adequate facilities to conduct various cultural activities. These seminar halls and auditoriums are used for cultural events like fresher's day, annual day,

independence day, republic day, Batkamma, Sankranti, Diwali festival celebration etc

To bring out and encourage the inherent talents of students, various clubs are introduced. Students join in these clubs depending on their interest. Students are encouraged to actively participate and showcase their talent and skills. These activities contribute to bring out latent talent among students, which help to build their overall personality by developing communication skills, leadership qualities and to be a constructive part of a team.

Facilities	Total Numbers	Area in Square metres
Class Rooms	28	3200
Labs	37	3200
Seminar Halls	02	800
Staff Cabins & HoD Rooms	44	800
Video Conference Room	01	50
Workshop	02	500
Drawing Halls	01	200
Computer Labs	10	1042
Library	01	500
Research and Development lab	01	150

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 24.96

4.1.2.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
19.85	21.43	44.67	20.3	125.81

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

Response:

Library is total automation of institution with spanning over an area of 450 sq.mtrs. The library creates good atmosphere to read and refer the books with a peace of mind and noiseless ambience. The library kept opened from 9AM–5PM.

The library uses E-CAP software developed by M/s Webpros Solutions Pvt. Ltd., Library automation is major part in this package. This Library Management Information System supports in-house operations of the library. Retrospective conversion of bibliographic records the data base available in the library is being updated on day to day basis with details of recently acquired books, records of all the library patrons have also been created in this package.

It has main modules, i.e.

- Acquisition
- Cataloguing
- Circulation
- OPAC
- Administration
- Authority Control
- Report Generation
- Stock Verification
- Technical processing (cataloguing)
- Acquisitions serial management
- OPAC besides administration.

Name of the ILMS Software: ECAP (open source)

Nature of Automation: Fully Automated

Version: 1.5

Year of automation: ECAP 1.5 (2014)

Library has the collection of 26192 volumes and 3633 titles. Central subscribes two online databases like DELNET and NDL. Each database consists of 1413 and 816 of e-journals and e-books. They are downloaded and uploaded on all the systems. DELNET has Engineering Science and Technology

collection and Management collection. The library subscribes around 74 print journals every year.

The Library offers computerized Catalogue Search Services for user community through the On-line

Public Access Catalogue (OPAC) (<http://192.168.0.25>) which allows access of bibliographic details of the books available in the Library.

The library subscribes full-text e-resources providing access to e-journals and e-books, newspapers etc. and access to the e-resources are based on the authenticated IP address (<http://192.168.0.25>). The users can access these resources from anywhere on the campus at any time through the Intranet. Digital Library is equipped with 15 Desktops with Wi-Fi and LAN enabled with 100 Mbps for fast and seamless access the Internet and e-Resources for the benefit of their academic and research. Library webpage (<http://www.scient.ac.in/library/category/6>) provides access to various services as well as e-resources, Online Public Access Catalogue (OPAC) etc., besides giving detailed information about library, rules and regulations and necessary contact details.

In addition to central library, each department is well equipped with department library.

The library conducts a Book Exhibition by inviting local approved vendors/distributors and various prestigious publishers to inculcate reading habit among the students and faculty members.

Library has collection of Rare books & GATE Books for enhancing the knowledge of the students.

Library maintains the record of purchase of books , journals & e-resources.

The Library maintains Login register for staff & students for usage of books & journals.

Holdings of the Library as on date are :

Books : 26192

Titles : 3633

Print Journals : 74

e-Books (DELNET) : 816

e-journals (DELNET) : 2000

Facilities / Services available at SCIENT Library: Yes

Open Access System : Yes

Reprographic Facility : Yes

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Response:

Scient Institute Of Technology has established excellent IT infrastructure to the needs of all students and faculty. Updating the IT facilities has been on the high priority activities of the institution.

Our IT infrastructure includes below mentioned items

- Computers
- Printers
- Scanners
- Software
- LAN / WAN hardware
- LCD projectors
- Internet with High bandwidth
- Surveillance camera facility available etc

Our institution keen in updating, IT facilities for effective learning and teaching process.

In the entire campus, the LAN connects all the computers with 150 Mbps speed capacity is provided.

- LAN connects all the computers in Labs, Principal, HOD, Staff rooms, Administration, Library.
- Surplus Ethernet ports are provided all over the campus, for laptops/devices in need of internet connectivity.
- Computer laboratories are equipped with latest technology and are available to all the staff and students.
- All the departments are equipped with printers and LAN connected computers.
- Wi-Fi Facility is provided with access points in the entire campus of the scient college.
- At the beginning of the academic year every system is updated with new software or hardware equipments. At present we have 290+ systems in various laboratories, departments, administration office, library and examination branch to meet the requirements of curriculum.
- The institute upgrades the software packages and also purchases new softwares when it is required.
- 20 users of Quick Heal Antivirus is installed in the systems to prevent malware from causing damage.

- The Computer laboratories are being upgraded from time to time to provide the best computational infrastructure to the students by providing 290 systems.
- Each and Every Department is provided with a Computer through which staff can work effectively.
- Teaching aid provisions like LCD projector with computer internet based system available in each class room.
- Aadhaar based biometric attendance system is provided for the staff .
- 50+ CCTV cameras have been installed in all over the campus at various places for 24/7 campus surveillance.
- Teaching aid provisions like 24 LCD projectors with computer internet based system available in each class room.
- Printers and Scanners are available in every HOD , Principal Room, Administrative Office, Exam Branch
- CRT Monitors are replaced with LED Monitors.
- UPS is provided in the labs to provide clean and stabilized electrical power to sensitive electrical equipment.
- Internet Bandwidth is updated continuously to meet the needs of the college. Upgraded from 100 Mbps to 150 Mbps.
- Continuous Monitoring and maintenance of the labs will be taken by the technical staff.

Wi-Fi facility

•Full coverage of Wi-Fi

- **Name of the Provider: Meenakshi Tele services**

•Available Bandwidth : 150 Mbps

Internet Bandwidth for the last five years i.e from 2017-2022

Year	2021-22	2020-21	2019-20	2018-19	2017-18
Internet Bandwidth(Mbps)	150 Mbps	100 Mbps	100 Mbps	80 Mbps	80 Mbps

Software Server Details

E-Cap Server	Processor	: Intel Dual Core
	HDD	: 350GB
	RAM	: 2GB
	Monitor	: LED
Globarena	Processor	: Intel Dual Core
	HDD	: 500GB
	RAM	: 2GB
	Monitor	: LED

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3.2 Student – Computer ratio (Data for the latest completed academic year)

Response: 3.23

4.3.2.1 Number of computers available for students usage during the latest completed academic year:

Response: 290

File Description	Document
Upload supporting document	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lakhs)

Response: 66.64**4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)**

2021-22	2020-21	2019-20	2018-19	2017-18
139.91	120.13	122.9669	119.19	117.34

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

Response: 71.66

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
673	593	481	418	379

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.3 Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

Response: 93.01

5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
891	835	646	520	410

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

1. Implementation of guidelines of statutory/regulatory bodies
2. Organisation wide awareness and undertakings on policies with zero tolerance
3. Mechanisms for submission of online/offline students' grievances
4. Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

5.2 Student Progression

5.2.1 Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 74.66

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
136	134	117	72	39

5.2.1.2 Number of outgoing students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
158	159	123	161	66

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 92.78

5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
26	25	8	24	7

5.2.2.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
28	27	10	25	7

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 87

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at

national/international level (award for a team event should be counted as one) year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
24	18	5	10	30

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 26.8

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
38	12	17	37	30

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

The institution has a registered and functional alumni association under the name “SCIENT ALUMNI ASSOCIATION”.

Alumni meet is conducted every year during the month of December, to encourage interaction among alumni and the students. On the day of the event many activities are conducted for the Alumni like games, quizzes.

Alumni have contributed to the association fund, to organize various alumni and developmental activities.

Guidance for Higher Education:

The Alumni, pursuing their higher studies in various universities across the world, share their experiences and help the students in choosing specialization for higher education.

The Alumni guide students appearing for GATE, PGECET, GRE, TOEFL, IELTS and other competitive exams.

Guidance on Placements:

Our Alumni are placed in various reputed organizations like Wipro, Infosys, Accenture and many reputed organizations. They help the students to prepare for placements by giving suggestions on improving articulation and soft skills. They share their valuable experiences at work, so that students get accustomed to different work environments and learn standards of work and ethics.

Extra-curricular Activities:

Our alumni support and encourage students to participate in various extra-curricular activities. Our Alumni Mr. Sairam from ECE Department and Ms. Padhma from ECE are associated with Scient Dance Club and guided students

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance

Response:

The Scient Institute of Technology (SNTI) has a vision and mission which are futuristic in nature and satisfy the needs of society by providing quality education through leading-edge technology.

Vision and Mission of the Institute focuses on the needs of society by providing quality education. The governance comprising of Governing Body (GB), Department Advisory Board (DAB) and Internal Quality Assurance Cell (IQAC) play significant role in the evolutionary reforms towards positioning the Institute in the preferred list of all stake holders. The Institute believes in promoting a culture of delegation of powers through strategic policies.

IQAC has a well developed process to ensure quality benchmarks of academic and administrative activities. The Institute maintains the culture of retention of Faculty and hence has an edge of senior and dedicated faculty for realizing its vision.

Based on the Vision and Mission of the Institution, Quality Policies are framed and driven by the needs of the corporate world, society and stakeholders. Institute has a perspective plan developed by Principal and HOD's with suggestions of IQAC, DAB under the guidance of Governing body. Deployment of the quality policy is done by providing requisite academic infrastructure, learning environment and harmonious work culture.

Decentralization and operational transparency are the features of the institute.

The institute was a supporter of participatory management in which faculty and students were involved resulting a policy as a part of democratic governance. The Governing Body considered the same to be a quality promotion policy for the improvement of the institution and approved it.

The institute runs as per JNTU H rules and regulations and the governing Body in scheming and implementing the quality policy and plans.

The plans and the policies for fulfillment of the mission of the institute are executed by the active involvement of the college authorities, along with all the faculty members. Different committees have been constituted at the institute in order to implement policies and programs.

Effective Leadership of the Management, Principal and Faculty.

The institution offers decentralization and participative management in the overall schema

- HoDs have functional autonomy to Propose Budget, Course allocation, Framing time table, Organizing seminars, FDPs, Guest lectures, workshops, conferences, competitions and industrial

visits

Delegation of Financial Powers

- Budget is allotted for programmes organized at the Institutional level after taking concern and Budget approval by the management.
- Annual Budget for the respective department is prepared by the respective in-charges (lab procurement, infrastructure etc.) and forwarded to the Management for approval through Principal by HoDs.
- Principal and HODs have been authorized to sanction any expense up to an amount of Rs.25,000/- and Rs.10,000/- respectively.
- Other than these, certain members are given an imprest amount for any incidental expenditure

1. Principal – Rs.25,000/-

2. Head of the Departments – Rs.10,000/-

3. Admin Manager – Rs.3,000/-

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc

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:

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. In our institute all major tasks related to teaching-learning, Academic and Administration

planning, implementation is being monitored by (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 on the discrepancies found during audit.

Research and Development

Research and Development was institutionalized and many research papers were published through peer reviewed journals during 2015-20 & 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

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 Training & placements department
- Student internships through AICTE Internshala and Training & Placements department.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.2.2 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures and Performance Appraisal System for teaching and non-teaching staff

Response:

The Welfare Schemes for teaching and non-teaching staff: Availability of Casual, Special Casual Leaves in a calendar year, Provision for CCLs, ELs and summer vacation, Commuted leave facility of 20 half days (= 10 full days) per year on medical grounds.

Maternity Leave, Subsidized transport facility for the staff, Accidental Insurance policy for the staff, Institution organizes refresher courses, FDPs and workshops for teaching staff, Institution conducts training programs on IT enabled skills and soft skills for non-teaching staff, Best teacher awards to encourage teaching staff, ESI-facility for all eligible staff, Festival Advance for non-teaching staff, Cafeteria facility Sports and gymnasium facilities for staff.

The institution organizes health awareness camps and free health checkups, A health clinic and ambulance facilities, Partial reimbursement of health insurance policy premium.

Professional growth welfare schemes:

Ø Financial Support for attending FDP, Refresher courses, workshops and for publications in journals & conferences, NPTEL courses etc.,

Ø Financial assistance for Professional body memberships.

Ø OD (on duty) for attending conferences, seminars, FDPs and research work.

The Institution has a practice of assessing the performance of the faculty through Annual Faculty Appraisal system.

Annual Faculty Appraisal Form:

Teaching Staff: The self-appraisal form is submitted by the faculty at the end of each academic year. The

annual faculty appraisal form itself is a self-assessment report, verified by the HOD and forwarded to the principal. The faculty performance appraisal form consists of two parts.

Part - I Professional details of faculty member. Information about teaching load. Details of project works guided; FDP's/ Seminars/ workshops attended/organized, administrative works carried out.

Part -II The quantitative assessment:

Instructional related parameters: Participation in departmental work and students' activities, Contributions to Research publications and Consultancy works, Student feedback and Result analysis.

A review committee comprising of Principal, HOD, and two senior faculties review the appraisal report.

The committee interacts with individual faculty to suggest and guide them for improvement in performance. Based on the observations, the review committee also recommends a list of suggestions to be implemented by individual faculty through an advisory note.

Non-Teaching Staff: The non-teaching staff and administrative staff are assessed through a self-appraisal form based on the works assigned. The performance appraisal form of technical supporting staff consists on few parameters like :Workload, Academic Duties, Training courses attended.

The performance appraisal form of administrative staff consists of the Details of works allotted, Training courses attended, Participation in additional duties, including professional competence and personal characteristics, maintenance of harmony with staff, students, co-workers & Public.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

6.3.2 Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 67.12

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
72	77	50	68	76

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

Response: 44.04

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
38	23	59	72	74

6.3.3.2 Number of non-teaching staff year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
22	16	19	17	19

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

The Accounts department prepares the budget estimates by collecting the requirement with regards to recurring and non-recurring expenses at the department as well as at Institute level. The department conducts the budget meeting well in time before the commencement of academic year, collects the various requirements from the faculty and lab in-charges for the procurement of equipment (based on the changes

in curriculum or based on obsolete items) and also separates budget for the maintenance of the equipment for conducting experiments for the coming semester. The HoDs conduct a meeting with the faculty members to collect the inputs regarding the activities planned for the coming academic year and prepares a budgetary requirement. The accountant collects the requirements of the budget from various departments.

All the budget requirements are consolidated and put forward to the admin committee. The committee suitably conducts the meeting with HODs, Coordinators, AO, Librarian and other coordinators to fine tune the requirement of budget for the financial and academic year. After deliberations in the meeting, any changes required will be incorporated in consultations with the concerned head. The final consolidated budget is submitted through the Principal for further action of approvals from the management/governing body.

Once the budget is approved, the department is empowered to utilize the same for conducting the activities as desired in the proposals. The sanctioned budget is released by following the due procedures and the necessary bills for the same are collected by the accounts department for the expenditure incurred.

The institute carries out two type of auditing; Internal and External. The college has an Internal Finance Committee to examine the budget proposals, receipts, bills and vouchers and supporting documents for the current year. The financial committee after scrutiny may advise the concerned departments for any possible improvement. They also verify the due process followed in application, sanction and utilization of the budget. After due verification the accountant prepares the balance sheet.

The institute also appoints an external auditor (Chartered Accountant) as per the income tax regulatory authority who carries out auditing of the institute budget and gives the valuable inputs to the management for effective planning and implementation of budgetary requirements.

Once the budget is audited for a financial year the same will be made available on the college website.

File Description	Document
Upload Additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

An IQAC was constituted in the year 2015 as the directions of UGC to initialize the quality assurance strategies and processes. The college oversee the quality assurance with the help of committee.

Initiatives for quality assurance are as follows:

- Implementation of OBE
- Defining COs, PSOs , CO & PO attainments and strategies for improvement.
- Usage of ICT tools for better TLP.
- State of art equipment.
- Strengthening Student Mentoring System.
- Introduce Biometric attendance system for Teaching&Non-teaching staff
- Participation in NIRF.
- MoU's with various organizations.
- Placement and career guidance activities.
- Faculty participation in FDPs, Workshops, STTPs to enrich their knowledge.

Student Mentoring System

The IQAC implemented an effective student mentoring system. The students are mentored by faculty members on aspects related to academics, profession, career from first year. A record of the student's activities are maintained. Each mentor is allotted with 15 students. The mentor counsels the students which develops an interaction between students, mentor, and parents, considerable improvement is observed in attendance, academic results.

Promoting Technology Enhanced Learning

For promoting technology enhanced learning experiences of the students and staff, IQAC has initiated the process of enrolment into MOOCs (Massive Open Online Courses)

IQAC regularly reviews the TLP, its methodologies, operations, and learning outcomes. Two examples of institutional reviews and implementation of teaching learning reforms are:

1. Methodologies of Operations of skill upgradation in teaching learning process:

IQAC initiated to collect the feedback from the stakeholders. Based on the stakeholder's input IQAC reviews and finds gaps in teaching learning process.

Identified gaps namely value-added courses, skill development courses, MOOC certification courses and improvement in industry interaction to facilitate internships and design projects. HODs & Training Placement Committee identifies the resources to meet the gaps identified by the IQAC & are filled by conducting value-added courses to enhance knowledge. Skill development courses such as communication skills, soft skills and technical skills are introduced from first year only in collaboration with various organizations viz. TASK, Data Point, Vermac Labs, etc., to improve placement opportunities.

To enrich the student's industrial exposure and practical knowledge, students are encouraged to undergo internships, mini and major projects at various Govt. and Pvt. Organizations like DRDO, RCI, BHEL, BDL, ECIL, CISCO, ISRO, TCS, NAIR etc.

Pedagogical-Learner-centric methods meets the needs of such diversity in various dimensions of technical education in our institution. "**Learning by Doing**", "**Think-Pair-Share**" and "**Process Oriented Guided Inquiry Learning (POGIL)**" fosters cooperative learning and addresses different learning levels and styles.

2. Methodologies of Operations of Implementation of Outcome-Based Education (OBE) inTLP:

The institute switched over to outcome-based education and prepared CO's, PO's, PSO's and PEO's for all the programs.

Course Attainment computations are made for each course at the end of the semester and the Program Outcomes are mapped and evaluated.

Learning Outcome:

These assessments are useful for offering the course with necessary improvements as required for the next semester. The Course end feedback and program exit feedback are collected from the students and corrective actions are initiated to improve.

File Description	Document
Upload Additional information	View Document

6.5.2 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)/ membership of international networks**
- 3.Participation in NIRF**
- 4.any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc**

Response: A. All of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

Gender equity & sensitization in curriculum:

The course on “Gender Sensitization (An Activity-based Course)” was introduced by the Affiliating University JNTUH as a compulsory foundation course with two credits in II year II Semester in B.Tech for all branches of Engineering and Technology from the academic year 2015-16 (with existing R13 & R15 regulations. It should be treated as a Lab Subject (Student Centered). Further continuing with “Gender Sensitization Lab” from 2016-17 onwards.

Learning Outcomes of the Course:

Students will have developed a better understanding of important issues related to gender in Contemporary India.

Students will be sensitized to basic dimensions of the biological, sociological, psychological and legal aspects of gender. This will be achieved through discussion of materials derived from research, facts, everyday life, literature and film.

Male and Female students and professionals will be better equipped to work and live together as equals.

Gender equity & sensitization in co-curricular activities:

The following Gender equity promotion programs organized by the institution during the last five years.

Sports and Games competitions for girls Various club activities like Cultural programs, Dandiya & Bathukamma, Fresher’s day, International Women's Day, Painting competition, Pongal Celebrations, Plantation, International Yoga Day etc.

Facilities for women on campus:

The following Specific facilities provided for women

Safety and security:

- Surveillance CCTV Cameras are installed in the Campus for monitoring students’ movements into and out of the college.
- The security personnel are deployed across the college premises for any kind of security incidents/issues and offers strict vigilance.
- Fire extinguishers are available in all labs and corridors.

- Regular check on fire extinguishers is taken care by administration department.
- Anti-ragging committee will ensure that Campus is free of ragging.
- The anti ragging squad regularly monitors at scheduled timings in different places to make the campus ragging-free.
- The college also has anti-sexual harassment committee to address issues if any. Any sort of complaint can be lodged either through online or complaint box provided at the campus.

Counseling:

- Counseling is arranged by the college for girl students in three major areas i.e. Counseling related to academics, career and behavioral patterns.
- The counselor counsels the student on issues like personal, psychological, emotional problems and difficulties.
- It helps them to deal with stressful or emotional feelings and to inculcate the positivity in them.

Common Rooms:

- Separate Common rooms are provided for boys and girls.
- Rooms are provided with necessary facilities like first aid box, rest room, cots, beds, mirror, chair, table, washbasin, dustbin, etc.

Day care center for young children:

- Child care is one of the most effective ways that colleges can help their employees in completing their work without being worried about their child’s welfare.
- SCIENT provides an on-campus care center which is much less affordable and high in quality.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.1.2 The Institution has facilities and initiatives for

- 1. Alternate sources of energy and energy conservation measures**
- 2. Management of the various types of degradable and nondegradable waste**
- 3. Water conservation**
- 4. Green campus initiatives**
- 5. Disabled-friendly, barrier free environment**

Response: A. 4 or All of the above

File Description	Document
Upload supporting document	View Document

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

- 1.Green audit / Environment audit**
- 2.Energy audit**
- 3.Clean and green campus initiatives**
- 4.Beyond the campus environmental promotion activities**

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

7.1.4 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic diversity and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

Cultural Diversities:

The college establishes a good environment for the students to develop personality and behavior. Students are encouraged to form cultural clubs like Scient Campus Connect, Scient Dance Club, Youth for Seva in order to make large number of students take part in the cultural activities. Every year the college celebrates traditional day and cultural fest.

Regional Diversities:

The college promotes regionalism by celebrating regional festivals like Telangana Formation Day, Bathukamma, Bonalu, Sankranthi and Rangoli.

Linguistic Diversities:

Students are motivated to improve their linguistic skills by conducting various workshops, invited talks and guest lecturers by experienced people from NIT's and IIT's. The promotional events conducted are "Enhancing speaking skills in English-Invited Talk", "Skill developmental program-English proficiency test". A workshop on the importance of soft skills. and psychometric tests has been conducted.

Communal Diversities:

The college encourages the staff and students to improve their collective behavior by conducting various communal events like Dandiya, Rangoli, Holi, Kite Festivals. Apart from these the college promotes events like Gogreen Ganesha, Ganesh Nimarjan, New year celebrations and Annual Day Celebrations. The students of various religions are allowed to go to religious places during working hours to perform prayers. The students are sanctioned optional leaves to celebrate the festivals like Onam, Ugadi, Guru Gobind Singh's Birthday.

Socioeconomic and other diversities :

The college supports the students to improve the socio economic factor by organizing events such as “Building career path”, “Global Challenges and opportunities”, “Career Planning, Goal Setting, Habit formation, How to lead life, Moral values, Indian Culture”, “Motivation cum Personality Development”, which help them to improve their employability and entrepreneur skills.

The course on “CONSTITUTION OF INDIA (Audit Course)” was introduced by the affiliating

university JNTUH as a compulsory foundation course in II year in B.Tech for all branches of Engineering and Technology from the academic year 2018-19 and I year in M.Tech for all branches of Engineering and Technology from the academic year 2019-20 and. It should be treated as a Lab Subject (Student Centered).

Values

The Institution conducts various programs on the occasion of Independence Day and Republic Day, Flag Hoisting, Skits, Shows a patriotic movie, organizes Independence Day quiz, Institution has the proud privilege in expressing the essence of Teacher's Day by conducting few sports especially for the teachers like Football games, carom competitions, cricket, basketball and events like singing, short vedios, mimicry, lunch parties with teachers.

Fundamental Duties and Rights of Indian Citizens:

The Faculty has organized various academic and co-curricular activities for the propagation of the Fundamental Duties and Rights of the Indian citizens.

The students have enthusiastically participated in various programs like:

- Academic programs like Seminar, Conferences, Expert talks etc. which have enriched the awareness about this aspects.
- Various activities like poster making competition, etc.
- Organizing Annual Competitions on various contemporary legal issues.

Constitutional Obligations:

The Institute has organized student centric activities like paper, poster & essay competition through Club Activities which have always received huge participation from the students and promoted their awareness about various aspects of Indian citizenship.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.2 Best Practices

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual

Response:

Best Practice-1

Title of the Practice:

“LEARNER-CENTRIC “PEDAGOGY TO ACHIEVE GRADUATE ATTRIBUTES

2. Objectives of the Practice.

1. Develop “Learner– Centric Environment”.
2. Knowledge and Process Skills development through “Course-Based Projects”.
3. Enhance usage of “ICT in Teaching-Learning Process”.
4. Achieving “Graduate Attributes’ by all students

3.The Context

A fusion of several pedagogical - Learner-centric methods meets the needs of such diversity in various dimensions of technical education in our institution

4. The Practice:

Inspired and imbibed with “The Seven Habits of Highly Successful People” at all a level, encourages intrinsic motivation.

1. “**Learning by Doing**“, “**Think-Pair-Share**” and “**Process Oriented Guided Inquiry Learning (POGIL)**” fosters cooperative learning and addresses different learning levels and styles.
2. “**Course-Based Projects**” provides platform for modeling and development of projects.
3. “**Career Vision Approach**” sets the goals for Teacher and student.
4. “**Flipped classroom & Blended learning**” and **ICT** fosters learning even outside traditional classroom

In contrast to traditional classrooms, students in a POGIL classroom work in small groups (of 3

or 4) on a specially designed activity. Each student is assigned a role, such as manager, recorder, spokesperson or reflector. The instructor serves as a facilitator who listens to the discussion and intervenes at appropriate times to guide student learning. In groups, students discuss the answers to carefully crafted questions that lead them to consider the general ideas in question and to construct their own understanding of important course concepts. As ideas are formulated, groups share their findings and understanding to new and increasingly difficult problems or contexts.

This new Program allows prospective Engineering students to see Industry from a student's perspective and allows students to spend a week with a current engineering in the multidisciplinary areas (Computer, Electrical, Instrumentation, Electronics and Communication , Software &Hardware, or Systems Design) at the Industry and see what Industry life is really like. Visiting students will go around the Industry, see the manufacturing processes and facilities, and most importantly, get time to talk with working Engineers about their experiences.

5.Evidence of Success.

- 1.The interactive learning enhanced the team spirit, learning capabilities and soft skills and making them socially responsible.
- 2.Students' proactive involvement Course projects and are part of research projects leading to publications, Startups.
- 3.Built into the experience is the support of a variety of important process skills, including communication, teamwork, and critical thinking, which translates to a more complete understanding of the entire concept, and a lasting understanding of the material
- 4.Our students visited many industries , best of them like Shatish Dhavan Space Center –Sriharikota (SDSC-SHAR), ECIL, NGRI ,BSNL Srisailam Hydraulic Power ,Nagarjuna Sagar Hydraulic power projects and Infosys etc..

5 Success rate of the placements

Problems Encountered and Resources Required

1) Learning styles and retention vary across the student fraternity creating a challenge to the classroom deliverables.

2. Adaptation of ICT teaching methodologies is challenging.

3. There are two crucial aspects to the design of a POGIL activity.

I) First, sufficient appropriate information must be provided for the initial "Exploration" so that students are able to develop the desired concepts.

2) Second, the guiding questions must be sequenced in a carefully constructed manner so that not only do students reach the appropriate conclusion, but at the same time various process and

learning skills are implemented and developed

Best Practice-2

1.Title of the practice:

STUDENT PROJECTS BASED ON SOCIETAL EMPOWERMENT.

2.Objectives of the practice:

- Involve students and faculty in interdisciplinary research in cutting-edge technologies
- To sharpen the student's practical laboratory skills.
- To upgrade the student's ability to collect, analyze and interpret experimental data.
- To upgrade skills in developing societal projects
- To motivate them towards their goal

3.The Context:

The course structure assigns credits to the industry participation through Mini-Projects, Major Projects addressing the societal needs and Internships. **The Research and Development Cell** of the institute, promotes research and innovation in technologies

4.The Practice:

course-based projects, The best way to master a subject is by doing **projects**. Through a **project** student not only get a deeper understanding of the subject but also gain hands-on practical experience

Certificate Courses: Certification Course helps an individual to showcase his competency, commitment for the profession, build expertise in his professional subject area, and helps with job advancement. It is a designation earned by a person giving a kind of assurance to the company of his competencies of performing a job.

Big Idea Competition :Scient Institute provides platform for our students to explore their innovations, intellectual projects and big ideas. R&D cell conducting project exhibition to develop projects for **societal empowerment** in the fields of Agriculture, Education, Health and Swachatha

Weekend projects lab transform classroom learning into a project-based experience.

SCIENT Hackathon : SCIENT HACKATHON are proving grounds for new ideas. They're especially good tools to stimulate the creative and problem-solving juices of developers. Unlike their course based projects where risk-taking may be frowned upon, in a hackathon there is a low cost of failure.

Research & Development Cell is important to gain knowledge to develop, design, enhance, and modify societal empowerment projects, services, technologies, business plans, processes and sometimes vision .R&D cell motivate students to incubate their ideas.

Centers of Excellence are established in every department identifying the respective domain expertise.

5.Evidence of Success:

Projects like Jarsh Pluto the first of its kind “Air Conditioned Helmet”, “Cough and wheeze analyzer for respiratory digital health services” , Solar Powered car and Weapon Locking and Tracking system won accolades at national Level.

Collaborative projects like “Development of Effective wireless sensor network system for water quality and quantity monitoring” . Automated Commando Training System for Greyhounds, and Driving simulator for X Design and **86 Social projects** are executed successfully by students

6.Problems Encountered and Resources Required:

Maintaining equilibrium between Research and Academia. Identifying and retaining the research team

Expertise training in upcoming technologies, on a continuous basis. Institutional network beyond the academic sphere.

Development of non-scientific skills related to research

File Description	Document
Best practices as hosted on the Institutional website	View Document
Any other relevant information	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

Scient Institute of Technology's (SIT) Vision, priority, and thrust are focused on:

Providing Value based education to excel in academics.

Conducting Interdisciplinary research in cutting-edge technologies.

Producing socially responsible engineers, managers, entrepreneurs leading to the sustainable socio-economic development of the nation.

Dedicated to serving the society, SIT with its environment of innovation pledges to reinvent itself from time to time and has an integrated model for all its activities of teaching, research, innovation and extension activities. The college SCIENT HUB, working with the motto of bridging the gap between the teachers and the students .The distinctiveness of the institution lies in its philosophy “ **Education Process Re- engineering(EPR)/ SCIENT Spectral Pyramid** “.

The Education Process Re-engineering(EPR)/ SCIENT Spectral Pyramid Model is widely disseminated by five critical faces in the Organization to develop the structure under critical success factors and sub functions. The five faces are:.

1.Excellence in Academics

2.Exploration of Knowledge through Research

3.Excitement of Innovation & Entrepreneurship

4.Exponent for Development of a Rounded Personality with Global Vision

5.Designing the projects for Societal Empowerment

Excellence in Academics

A high quality of academic excellence can provide value-added experience for the students. The positive outcomes are achieved by designing the curriculum to meet the global requirements and through teaching-learning methods blended with ethical values. It outlines the commitment to academic performance expected of all students. The structured induction of the student into the curriculum enables to visualize the career opportunities and the approach towards achieving them.

Exploration of Knowledge through Research

The Institute's determination to be transformed into a center for major research is therefore, in itself, a

commitment to offer high quality teaching through.

- Synergies between Research & Education
- Activities Research Based Learning & Teaching

The Course based projects, Social impact projects, certificate courses offered by the institute provides the knowledge regarding cutting edge technologies, enabling the students to carry out inter-disciplinary research. The Research and Development Cell (R&D), of the institute is equipped with advanced level research Laboratories to facilitate the academic and sponsored projects.

Excitement of Innovation & Entrepreneurship

The institute provides a platform to business Start-ups to develop their ideas into commercially viable products. The students participate in the **Big Idea Competition** and the best ideas are rewarded. **Week End Lab** facilitates the students to work on innovative project ideas. **SCIENT HUB** encourages the stakeholders to incubate the selected projects, by providing the seed money and infrastructure based on their credentials. **R&D Cell** crucially works on generating the excitement in the young engineering brains to produce innovation and thus laying the stones for entrepreneurship.

Exponent for Development of a Rounded Personality with Global Vision

Participation of students in Co-Curricular Activities (CCA) and Extra Curricular Activities (ECA) helps to enhance all rounded personality to strongly face the turbulent road of the future. Experiences and appreciations gained through these activities assist students during internships. Career guidance, Personal counseling, Training are well structured through a Mentoring Training and Placement (MTP) center. Student participation in ECA / CCA is facilitated through professional bodies and student associations.

Designing the projects for Societal Empowerment

Our Institute Adopted five village to transform the technology in rural areas. In this program the students and faculty teams are visiting the Adopted villagers to study and understand the way to transform technology in Agriculture ,Educations, Health and Swachatha. New technologies enable small farmers to shift from input-intensive to knowledge-intensive agriculture. ... Combined with improved seed quality knowledge , water management and innovative Agriculture , which can in turn increase double and triple cropping, farmers' income can grow. R&D cell conducting project exhibition to develop projects for **Societal Empowerment** in the fields of Agriculture ,Educations, Health and Swachatha.

File Description	Document
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Any other relevant information	View Document

5. CONCLUSION

Additional Information :

Action taken on the following categories for improving academic activities:

- Education and Placement of Students: Rigorous training for student placements.
- Qualified Senior Teachers and Heads of Departments: Faculty strength has been augmented with full time senior and adjunct faculty.
- Increase collaborative linkages with other corporate/ institutes for teaching and research.
- Strengthen formal feedback from students for quality improvement and analytic evaluation of teachers for improvement in quality of teaching.
- Promotion of research projects from funding agencies be given better attention.
- Counseling cell to be strengthened: counseling services available on campus
- Research Publications in indexed journals needs to be increased and incentivized.

Concluding Remarks :

Scient Institute of Technology is the outcome of meticulous planning, clear vision and concepts, conceived and nurtured by an internationally renowned educational society, committed to excellence in academics, research and governance, with its greatest strength in the cadre of men and women devoted to excellence in every process and undertaking. A detailed analysis of the criteria that are the concomitants of an institution of excellence is given in the Self Study Reports of the Institute and its Departments uploaded on the NAAC website.

The process of preparation of the Self Study Report of SNTI for NAAC inspection has given an opportunity to assess the quality of academic and administrative practices followed in the institution and to perform SWOC analysis. This SWOC analysis will help us to uphold the existing systems and procedures to meet the standards of higher education. The utmost cooperation and camaraderie extended by the faculty of all levels for collecting documentary evidence and data have strengthened and proven the team spirit. The contribution of the NAAC steering team, IQAC cell, and all the faculty members who have helped directly or indirectly in developing the SSR is gratefully acknowledged.

The institution is looking forward to the NAAC peer team visit not only to showcase our educational excellence but also to receive suggestions to further tune up the system.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																																								
1.2.1	<p>Number of Add on /Certificate/Value added programs offered during the last five years</p> <p>Answer before DVV Verification : Answer After DVV Verification :99 Remark : as per the documents</p>																																								
1.4.1	<p>Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)</p> <p>Answer before DVV Verification : Yes Answer After DVV Verification: Yes</p>																																								
2.1.2	<p>Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)</p> <p>2.1.2.1. <i>Number of actual students admitted from the reserved categories year - wise during the last five years</i></p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>147</td> <td>153</td> <td>124</td> <td>119</td> <td>99</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>140</td> <td>132</td> <td>120</td> <td>118</td> <td>98</td> </tr> </tbody> </table> <p>2.1.2.2. Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>150</td> <td>150</td> <td>145</td> <td>186</td> <td>171</td> </tr> </tbody> </table> <p>Answer After DVV Verification :</p> <table border="1"> <thead> <tr> <th>2021-22</th> <th>2020-21</th> <th>2019-20</th> <th>2018-19</th> <th>2017-18</th> </tr> </thead> <tbody> <tr> <td>150</td> <td>150</td> <td>145</td> <td>186</td> <td>171</td> </tr> </tbody> </table> <p>Remark : as per the documents</p>	2021-22	2020-21	2019-20	2018-19	2017-18	147	153	124	119	99	2021-22	2020-21	2019-20	2018-19	2017-18	140	132	120	118	98	2021-22	2020-21	2019-20	2018-19	2017-18	150	150	145	186	171	2021-22	2020-21	2019-20	2018-19	2017-18	150	150	145	186	171
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3.1.1	<p><i>Grants received from Government and non-governmental agencies for research projects /</i></p>																																								

endowments in the institution during the last five years (INR in Lakhs)**3.1.1.1. Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
2.32	2.95	2.96	0	0

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
0	0	2.96	0	0

Remark : as per the documents

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years**3.3.2.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
3	3	0	1	2

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
2	2	0	0	0

Remark : Other papers are not published with ISBN

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years**3.4.3.1. Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year wise during the last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
25	18	12	11	11

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
20	16	10	7	8

Remark : as per the documents

5.1.1 Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

5.1.1.1. Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
673	593	481	418	379

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
673	593	481	418	379

5.3.1 Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

5.3.1.1. *Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years*

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
24	18	55	24	42

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
24	18	5	10	30

Remark : as per the documents

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

5.3.2.1. **Number of sports and cultural programs in which students of the Institution participated year wise during last five years**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
39	12	22	45	40

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
38	12	17	37	30

Remark : as per the documents

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

6.3.3.1. Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
65	66	81	85	76

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
38	23	59	72	74

6.3.3.2. Number of non-teaching staff year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

1. Green audit / Environment audit
2. Energy audit
3. Clean and green campus initiatives
4. Beyond the campus environmental promotion activities

Answer before DVV Verification : A. All of the above

Answer After DVV Verification: A. All of the above

2.Extended Profile Deviations

ID	Extended Questions
1.1	Number of teaching staff / full time teachers during the last five years (Without repeat count):

Answer before DVV Verification : 222

Answer after DVV Verification : 211

2.1 **Expenditure excluding salary component year wise during the last five years (INR in lakhs)**

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
170.98	152.78	193.7	180.52	180.46

Answer After DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
173.73	150.7	184.39	153.43	267.46