SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

SIDDHARTHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

**VINOBHA NAGAR, IBRAHIMPATNAM, RANGA REDDY DISTRICT, TELANGANA-501506
501506**

www.siddhartha.ac.in

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

(Draft)

Executive Summary

Introduction:

Siddhartha Institute of Engineering and Technology (SIET) was established by G.P Educational society at Vinobha Nagar, Ibrahimpatnam, Ranga Reddy District in the year 2008, approved by AICTE, Govt. of Andhra Pradesh and affiliated to JNTUH Hyderabad to offer B.Tech program with an intake of 240 students comprising 4 branches of engineering viz. Computer Science & Engineering, Electrical & Electronics Engineering, Electronics and Communication Engineering and Information Technology for the Academic Year 2008-09. The Institution is located on the suburban of Hyderabad, spread over in 10 acres of pollution free scenic environment. SIET is accredited by NBA for Computer Science and Engineering, Electronics and Communication Engineering and Electrical and Electronics Engineering departments in the year 2019.

SIET has gradually increased its annual intake with 720 students at B.Tech, 18 each in CSE & ECE at M.Tech level and 60 students in MBA.

The primary objective of the institution is to provide a right learning platform in fields of Technology and Management for the overall personality and career development of the students. The Institution has a rich tradition of soaring high with academic excellence of highly qualified faculty members and the overall personal growth of the students.

The institution continues to prosper high with excellent infrastructure, committed teaching and non-teaching staff in imparting the quality education and chiseling the right careers by registering consistently a good number of placements in MNCs every year. Since Hyderabad has become a technical hub in the country in attracting the best investments and knowledge pool, our contribution is immense and be instrumental in deploying the research oriented and technically driven student community.

The Institute is having mentoring system to provide proper guidance to the students in choosing the right career path, helps them to become a complete professional by making students conscious of their social responsibility and sensitivity through outreach programmes organized by NSS and various Professional bodies like ISTE, IEEE, CSI etc., towards the upliftment of the underprivileged sections of the society.

Vision:

To be a pioneer institute and leader in engineering education whose primary concern would be the development of the human race and betterment of society through their knowledge, technological understanding and the spirit of progress.

Mission:

- To create a conductive environment for student centric learning and industry institute interaction.
- To integrate the state of the art infrastructure, facilities and cutting edge academic delivery and diversity.
- To develop and nurture socially conscious technocrats through continuing education and research.

SWOC

Institutional Strength :

- Visionary management with a commitment to bring high standards of quality in each and every aspect of the Institution.
- A strong presence in the Education Industry since 1996
- Approved by AICTE, affiliated to Jawaharlal Nehru Technological University, Hyderabad
- Accredited by National Board of Accreditation (NBA) for CSE,ECE & EEE programs
- Highly qualified and experienced faculty with collective team work and commitment
- State of the art labs to promote research and consultancy activities in all the Departments.
- Infrastructure which includes laboratories, ICT classrooms, sports and games.
- Provides Industry oriented Training programs for students to make them "Job Ready" through "Edu Skills"
- MoUs with reputed industrial and research organizations
- Centre of excellence facilities in Artificial Intelligence, Internet of things, Building Information Modeling, Electronic prototype design and development facility, Skill and Personality development program center for SC/ST students
- IQAC has been established for Quality Audit and continuous assessment and improvement
- Excellent infrastructural facilities
- Wi-Fi enabled campus
- Well established library with good number of knowledge repositories
- Ragging free environment
- Exclusive Training & Placement Cell to continuously monitor the career progression of the students through Training and Campus Placements
- EDC cell to promote entrepreneurial skills to students and make them self reliant
- Mentoring the students at regular intervals and to empower them with confidence levels
- Establishments of professional chapters and encouraging the active student participation through various Cells/ Clubs/ Committees
- Encouraging active student participation in community development programs through NSS
- The Institute has a robust system of collecting feedback from stakeholders.
- The continuous evaluation and suggestions given by the stakeholders are regularly analysed and appropriate action is taken to incorporate such suggestions into all aspects of functioning in the institution.
- The Society is running 20 educational Institutions in major field of education for the past 25 years and known to develop Institutions.

Institutional Weakness :

- Cutting edge Research infrastructure in Research & Development
- Industry collaboration towards patents and advanced research is limited
- Being a self financed institution, the delayed release of scholarship funds by Government is conservative
- Inflexibility academic structure and curriculum
- Potential research proposals in allied and thrust areas.
- Industrial consultancy
- The College is fully funded by the sponsoring Society and has limited financial resources to cater to the growing academic needs that support funding requirements to enhance teaching-learning resources for faculty members.
- Generation of funds is often a serious limitation in expansion and up gradation of campus facilities.

Institutional Opportunity :

- Global demand for technical man power is growing
- State Govt. is providing financial aid to the students' from the weaker sections
- Engineering education is still at affordable cost
- Immediate job opportunities to potential job seekers
- Many of the neighboring state students are opting for education in Hyderabad
- Collaborative student-projects with industries
- Attaining funding projects from AICTE, UGC, DST, DRDL etc
- The institution is eager to apply for the UGC Autonomous status based on the results of NAAC
- Several core and software companies within the vicinity and invite them for campus drives
- The Institute is having potential to collaborate with Universities and Industries in India and abroad.
- Multidisciplinary collaborations/ faculty and student exchange programmes etc.,
- Institute has a wide network of working relationships with academicians and Industry Personnel both at the national and international levels.
- The Institute is having highly qualified, efficient and committed faculty members who are capable of carrying out Research and Start ups.
- Over the years the Institute has developed its own credibility and established strong bonds with industrial partners through its Placement Cell and Alumni for internships of various departments.
- The scope to expand these linkages wider between the industry and the academic fraternity should be able to strengthen innovation and entrepreneurship activities in more tangible outcomes.

Institutional Challenge :

- Competing with the existing well established institutions in the surroundings
- The majority of admissions are from rural areas causing concern for improvement in communication skills
- Research and consultancy assignments from Government and private agencies
- Zero drop-out rate and attendance detentions
- Prevailing conditions of pandemic from past 3 years
- Attracting top rank students for admissions
- Modernizing labs with advances in technology and industry growth
- Motivating students towards research
- Involvement of Alumni at larger extent.
- The demand for core branches like Mechanical Engineering, Electrical Engineering and Civil Engineering is reducing and it becomes big challenge for Institution to motivate students to go for core branches. This is also leading to mismatch between sanctioned strength and admitted students.
- SIET caters to a large number of students who hail from the marginalized sections of society, many of whom are first generation learners.
- The challenge of meeting their day-to-day educational and personal needs is an urgent and immediate need. Improving communication skills to the above students are challenge to the Institution.
- The commercialization of education and change in the societal values presents a challenge to the service motto of the College.

Criteria wise Summary

Curricular Aspects :

The Siddhartha Institute of Engineering & Technology follows the curriculum designed by JNTUH. The institute gives emphasis to outcome based Education (OBE) and adhesives to Academic Calendar of the University for all academic activities. Various additional programs are offered in addition to the regular academic activities to fill the gap between industry and curriculum.

The institute offers add-on programs and overall development programs like entrepreneurship programs, hackathons, Guest lectures, Seminars, Campus Recruitment Training on soft skills, trending Technologies etc. All the students are encouraged to take part in the curriculum by adapting innovative methods to make the class more effective and interactive. Students are monitored continuously to improve their overall performance in curriculum, co curriculum and extra curriculum activities.

Field visits, internships, projects are the regular practices of the institute to promote effective teaching-learning process. Students and faculty are encouraged to participate in the programs as a part of effective outside world interaction.

Institute collects timely feedback at regular intervals from stake holders on curriculum and various other factors so as to accommodate the updated technology to fulfill the requirements for a successful student's career. Feedbacks are analyzed and action plan is initiated to rectify if any short fallings are observed, rectified and effective mechanisms are implemented for their correction.

Over all grooming of the students is the ultimate aim of the institute.

Teaching-learning and Evaluation :

SIET strictly adopts the admission norms of State Govt. and JNTUH which include convener, management quota and spot admission. 90 % of the seats were filled during admission in the last five years. The institute provides admission based on two grading factors: one is the percentage of marks scored in Intermediate/+2 level and other Rank secured in the EAMCET examination. The Institution conducts Bridge Course and Orientation Programmes soon after the admission to bridge the gap between the students and to cover the basics of all the subjects of the I- Year B Tech program. The faculty member employs students' centric methods such as experiential method, participative learning, and problem-solving etc in order to enhance the learning experiences of the students. ICT facilities are effectively used by the teachers with Learning Management Systems, E-Learning resources, etc. The teacher as a facilitator encourages the students to take part in different activities such as technical competitions, seminars, projects, etc. Students are encouraged to work in groups and give them an opportunity to get hands-on experience. Teaching Faculty is appointed as mentors to counsel students for their academic enhancement. The slow and the advanced learners are identified by the subject teachers as well as the class mentor according to their level of understanding and grasping abilities and thus more attention is given to them with continuous follow-up, interaction, counselling   their academic doubts and creating exposure to new technologies available in the market.

Research, Innovations and Extension :

SIET has well established infrastructure, Research and Development Cell to promote and progress research and development activities. The departments of CSE, ECE, EEE, CIVIL and MECH have best research funding projects and 10 faculty members have been recognized as research supervisors by different Government and Private universities. Under their guidance and supervision,

The institute has received sponsored research projects worth more than one Crore rupees from different funding agencies such as AICTE, and Non-government companies. Faculty members have published more than 600 research papers in UGC/Scopus/Web of Science journals in the last five years. Faculties have published more than 60 books in reputed publishers.

The institute has organized many workshops/seminars, Industry oriented-Academia innovative practices and Intellectual Property Rights. An IPR cell is established to help faculty and students for patent publishing and

filing and so far 8 patents have been filed. The institute has established an Entrepreneurship Development Cell and organized various programs for overall development of students. The institute has established 5 Centres of Excellence namely, Centre of Excellence for Internet of Things, Centre of Excellence for Artificial Intelligence, Centre of Excellence for Building Information Modelling , Centre of Excellence for Electronic Prototype design and development, Centre of Excellence for Skill and Personality Development Centre to enrich 360 degree development and to strengthen research activities.

In the past 5 years, a good number of extension and outreach programs were conducted through NSS, IPR cell, EDC etc. The institution has many collaborative events in the form of internship, industrial visits, research activities through department collaborations with industries and professional bodies. The institution has signed MOUs with multiple organizations such as Urban Box Pvt Ltd, UK academic Consultancy LTD, Edu Skills Foundation, AECC Global, BSMS Info Solutions Pvt.Ltd, Ganesh Rig Industries etc.

Infrastructure and Learning Resources :

SIET is committed to providing a conducive learning environment with state of the art infrastructure and learning resources. The institute has area of 10 acres with a built up area of about 14,391 sq.mts with extensive hi-tech environment and facilities which made the institution on par with the premier institutions at the national and international levels. ICT enabled classrooms and laboratories are established that lead to fast adoption to corporate culture during the transition of the students from campus to corporate. Library resources available in the central library stimulate the life-long learning skill of the students and also fulfil the needs of the faculty and students for their advanced studies and action research. The institute has adopted the digital platforms for learning resources such as e-journals, e-books, NPTEL, digital videos, PowerPoint presentation and various databases available from leading publication houses relevant to the engineering programs. All e resources of the central library can be easily accessible remotely by the students and faculty members. The contemporary infrastructural facilities and learning resources available at the institution have made it as one of the prominent institutions in Hyderabad in providing quality education.

Student Support and Progression :

SIET conducts a number of student support activities such as academic, co-curricular and extracurricular activities for the academic excellence to ensure the' progression of students towards placements and higher education. In addition to the scholarship provided by the Government of Telangana, the institution also extends its financial support to the economically backward and financially deprived students. The institution provides support to students to appear for their competitive exams such as GRE, GATE and GMAT, etc by providing the required guidance. More than 500 students have availed guidance for competitive exams every year. Career counselling is offered for the overall development of the students. Special care is taken towards slow learners by conducting remedial classes. Further they are also encouraged, motivated personally and academically counselled. In order to become professionally strong, soft skills training and advanced communication skills training is also offered to the students. Pre-placement training which includes technical, aptitude, group discussion, and interview skills are conducted every year with reputed training agencies to enhance the competency of the students. Students Grievance Redressal Committee, Anti-Ragging Committee, and Prevention of Sexual Harassment Committee have a transparent mechanism for timely redressal of their grievances. SIET conducts Alumni Association meetings every year and avails the guidance and suggestions of alumni to the present pursuing students. The alumni contribute a lot to the skill development of students by delivering guest lectures, conducting workshops, seminars, and webinars every year.

Governance, Leadership and Management :

The governing body of the institution had taken over 4 years of consultations for conceptualizing the infrastructural and other resources, such as vision and mission, study programs, human resource

requirements, networking, fundraising, etc. Teaching-learning practices, administrative activities and committees/cells are oriented towards achieving the Vision and Mission of the institution. The institution has made all the courses at UG and PG levels in perfect alignment with the objectives of higher education to achieve academic excellence, employability skills and equips every student to be a responsible citizen. The institution has a clearly defined Organizational Structure and hierarchy to decentralize the activities on academic matters and administration as well as to track and implement plans and policies effectively. The standard operating procedure is formulated for every activity, utilization of resources, committees/cells, IQAC, and periodic audits. Feedbacks received from the stakeholders are plowed back for upgrading the academic environment of the institution. The institute is maintaining an Up-to-date internal and external audited financial statement as per SIET norms. For sustaining the Quality of the institution, experts from Industry and Academia are involved as members in the IQAC cell. Academic Council and other committees such IQAC Committee, meet regularly to track academic / infrastructure practices and to effectively implement the management committee's plans and policies to achieve their wider goals and objectives. Faculty members are encouraged to contribute and write research papers, books and attending workshops, conferences, seminars, and FDPs, etc. The institution is organizing workshops, conferences, FDPs, etc., for the development of faculty members. The institution has active and vibrant Governance and Leadership policies which are pivotal for promoting and upholding the standards and quality of the institution.

Institutional Values and Best Practices :

Institutional Values and Best Practices Institutional Values:

SIET is very keen in upholding the foundational parameters such as: management of water resources, promotion of green practices, use of alternate energy, effective utilization of existing energy resources, promotion of human values, gender sensitivity and equity, and professional ethics, patriotism and a sense of pride in the nation, Waste management, eco-consciousness, etc.

The institution has installed Solar and LED to optimize energy consumption. Substantial amount of power is generated and the same is used as renewable energy sources. The Institute executes many environment-friendly policies which include plantation, waste management, water harvesting, and renewable energy sources. Being located on the outskirts of Hyderabad, the institution has taken certain techno-social initiatives such as Cyber-Crime and Road-Safety Awareness. Students and staff also participate in the camps and rallies for the social awareness organized through NSS such as Swatch Bharath, women's day, save the environment, etc.

Best Practices:

The institution has implemented several best practices for the holistic development of students, among which Interpersonally Development skill through Department clubs under Scheme for Promoting Interests, Creativity and Ethics among Students (SPICES) and Centre of Excellence (COE) are the highly notable best practices since all the practices are very crucial in fostering the students' career and make them industry-ready.

The institution is distinctive in providing research and development facilities to meet its vision, priority, and thrust. In view of this, several advanced centres, such as Internet of things, Artificial Intelligence Building Information Modelling, Electronic prototype design and development facility, Skill and Personality development program centre for SC/ST students, Drone Technologies, Cloud computing, VLSI and Embedded systems, Robotics, 3D Printing, Solar Applications and Computational Civil Engineering are established to foster research and development activities on various cutting-edge technologies.

Profile

BASIC INFORMATION

Name and Address of the College	
Name	SIDDHARTHA INSTITUTE OF ENGINEERING AND TECHNOLOGY
Address	Vinobha Nagar, Ibrahimpatnam, Ranga Reddy District, Telangana-501506
City	Ibrahimpatnam
State	Telangana
Pin	501506
Website	www.siddhartha.ac.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	K. Eshawara Prasad	08414-222799	9177607659	08414-222799	info@siddhartha.ac.in
IQAC / CIQA coordinator	V. Bhagya Raju	08414-222299	7893044445	08414-	vbhagya01@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	
Date of establishment of the college	01-01-2008

University to which the college is affiliated/ or which governs the college (if it is a constituent college)		
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](#)	25-06-2021	12	

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No

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	Vinobha Nagar, Ibrahimpatnam, Ranga Reddy District, Telangana-501506	Semi-urban	10	14391

ACADEMIC INFORMATION

Details of Programs Offered by the College (Give Data for Current Academic year)

Program Level	Name of Program/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted

UG	BTech,Btech Civil Engineering	48	Intermediate or Equivalent	English	120	16
UG	BTech,Btech Electrical And Electronics Engineering	48	Intermediate or Equivalent	English	120	63
UG	BTech,Btech Mechanical Engineering	48	Intermediate or Equivalent	English	60	24
UG	BTech,Btech Electronics And Communication Engineering	48	Intermediate or Equivalent	English	120	106
UG	BTech,Btech Computer Science And Engineering	48	Intermediate or Equivalent	English	180	177
UG	BTech,Btech Cse Artificial Intelligence And Machine Learning	48	Intermediate or Equivalent	English	60	50
UG	BTech,Btech Cse Data Science	48	Intermediate or Equivalent	English	60	52
PG	MBA,Mater Of Business Administration	24	Under Graduation	English	60	30
PG	Mtech,Mtech Vlsi And Embedded Systems	24	B.Tech or B.E or Equivalent	English	18	18
PG	Mtech,Mtech Computer Science Engineering	24	B.Tech or B.E or Equivalent	English	18	12

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				0				0				0
Recruited	0	0	0	0	0	0	0	0	0	0	0	0
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				25				41				131
Recruited	18	7	0	25	31	10	0	41	79	52	0	131
Yet to Recruit				0				0				0

Non-Teaching Staff

	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				50
Recruited	0	0	0	0
Yet to Recruit				50
Sanctioned by the Management/Society or Other Authorized Bodies				53

Recruited	33	20	0	53
Yet to Recruit				0

Technical Staff

	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				40
Recruited	0	0	0	0
Yet to Recruit				40
Sanctioned by the Management/Society or Other Authorized Bodies				45
Recruited	31	14	0	45
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD	0	0	0	0	0	0	0	0	0	0
Ph.D.	15	5	0	9	1	0	0	0	0	30
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	3	2	0	22	9	0	79	52	0	167

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD	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

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD	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

Details of Visting/Guest Faculties

Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year						
Program		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	1317	150	0	0	1467
	Female	625	5	0	0	630
	Others	0	0	0	0	0
PG	Male	104	0	0	0	104
	Female	45	0	0	0	45
	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	78	80	70	49
	Female	56	50	32	33
	Others	0	0	0	0
ST	Male	57	53	67	49
	Female	14	17	20	12
	Others	0	0	0	0
OBC	Male	253	233	215	217
	Female	73	85	102	77
	Others	0	0	0	0
General	Male	86	65	86	91
	Female	44	45	65	60
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		661	628	657	588

Provide the Following Details		
Number of Programs	Self-financed Programs offered	New Programs introduced during the last five years
	10	2

Provide the Following Details		
Unit Cost of Education	Including Salary Component	Excluding Salary Component
64102	146282174	35518174

Institutional preparedness for NEP	
1. Multidisciplinary/interdisciplinary:	Vision of the Institute To be a pioneer institute and leader in engineering education whose primary concern would be the development of the human race and betterment of society through their knowledge, technological understanding and the spirit of progress. Mission of the Institute 1. To create a conductive environment for student centric learning and industry institute interaction. 2. To integrate the state of the art infrastructure, facilities and cutting edge academic delivery. 3. To develop and nurture socially conscious technocrats through continuing education and research . • As per JNTUH University, humanities and science is part of the curriculum. • Credit Based system is followed based on the structure defined by the JNTUH University. • Institution/department encourages students to do the mini & major projects in their interested areas that help the society. • We empower the students to reach their pinnacle in careers as engineers so as to expand the image of the engineering and technology profession. • To inculcate positive thinking thereby demonstrating the value of diversity and inclusion towards society. • To impart skills and bring awareness about the latest technologies, industry requirements and overall personality development. • To help students in having a career vision and nourish the Design and Innovative skills, paving the way towards a career in core companies. • To gain a competitive advantage by developing technical skill set that is in demand. • To meet the demand for Business entrepreneurs, Innovators, Creative thinkers to Society • To build relationship with industry and improve interdisciplinary training of technical skills, collaborate with training companies for domain-specific employability.
2. Academic bank of credits (ABC):	Siddhartha Institute of Engineering and Technology is affiliated to JNTUH University, Hyderabad where in we follow the choice based credit system defined by the University. Choice Based Credit System (CBCS) was been implemented from the academic year 2016-17 including Professional electives and Open elective courses in the curriculum to facilitate the multidisciplinary approach for engineering problem-solving. The students are given the choice to select the open elective/ professional elective subjects in association with NPTEL Courses (MOOCS) with a minimum of 8 weeks course that reflects in the credit based system. The Structure of Assessments defined by the university is as follows: Procedure of Internal Assessment: Theory Courses Two mid exams are conducted that carry 25 marks

	each, in the semester as per the University norms. Ten marks for descriptive, ten marks for objective and five marks for assignments are allotted. The average marks of the two mid exams are taken as final marks. Practical Courses Every experiment is executed and evaluated based on the experiments prescribed by the university. There is an internal test in the semester. The criterion for internal assessment marks (25 marks) is based on the University guidelines. Project Work There are two kinds of projects namely mini-project and major-project. These projects are reviewed by an internal guide, project coordinator and Head of the Department. The marks for the industry oriented mini project and major project are awarded by the Head of the Department, internal guide, and the external examiner. The major project is for 100 marks, and the mini project is for 50 marks. Along with this, comprehensive viva-voce is conducted for 100 marks and technical seminar/presentation is for 50 marks. Project marks are awarded based on concept creation, project report, attendance and problem-solving ability. Some of the pedagogical approaches as Active Learning Methods (ALMs) followed by the faculty are: Group Discussions: This involves discussion among a group of students to assess the application of various concepts to gain a better perspective on the merits & demerits of the concepts. Quiz: Faculty conducts quiz on the subject/topic covered to review and revise the previous class concepts or to test their knowledge on a particular topic. Role Play: For explaining complex systems, the faculty uses the role-play method where each sub- system is enacted by a particular student, to involve the students much better into the teaching- learning process. Case Studies: Teaching using case studies enable the students to apply what they have learned in the classroom to real-life situations. Assignments: Giving assignments to the students can provide an opportunity for them to apply critical thinking skills as well as help them to learn course content. Interactive Seminars: During their presentation skills' hours, each group in a class will prepare a recent research topic or technical facts and present. Workshops/Guest Lectures/Seminars/Conferences: Workshops, seminars and conferences are organized every year for gaining the knowledge and increase the research potential. Working Models/Demos: Simple demo is given to illustrate the basic principles and are displayed in the laboratories.
3. Skill development:	To strengthen the technical skills and soft skills of students, the Institute concentrates on the quality standards and does the reviews periodically to update the academic programs. To implement this, the Institute has made it a practice to enhance the career guidance and quality placement opportunities

	to students in line with the requirements of the industry and help in entrepreneurship. Along with the technical (Core) subjects, the importance is given to the life science & Humanities. The subjects that are included in the curriculum are Environmental Sciences, Gender Sensitization, The Constitution of India, Professional Ethics, Disaster Management, and Principles of Entrepreneur to address crosscutting issues. To enhance the skills of the students, the internships and projects are allotted to the students based on their area of interest.
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	Siddhartha Institute of Engineering and Technology is affiliated to JNTUH University, Hyderabad where in we follow the rules & regulations defined by the university. As there are no guidelines from University, we do not strictly follow the bilingual mode, yet for the comfort of the students some of the faculties try to follow the bilingual mode.
5. Focus on Outcome based education (OBE):	Outcome Based Education (OBE) is implemented in our Institute since 2014 since it lays emphasis on what is expected from the student when they finish their course. We strictly follow the NBA defined PO's for our programs. For UG Programs, 12 well defined Program Outcomes (POs) are adopted. Minimum of 2 Program Specific Outcomes (PSOs) are defined for all programs by the Institution. Course Outcomes (COs) are direct statements that describe the essential and enduring disciplinary knowledge and abilities that students should possess and the depth of learning that is expected upon completion of a course. While defining the COs care is taken to follow the blooms taxonomy. There are a minimum of 5 CO's defined for each course and a maximum of 6. Course Outcomes are defined for every course of all programs of the institution. Course Outcomes are defined by subject handling faculty and Subject experts and approved in Department Advisory Committee (DAC) reviews. The Course Outcomes are then mapped on to Program Outcomes (POs) and Program Specific Outcomes (PSOs). Course End Survey is taken from the students at the end of the course, which helps to refine the CO's further. The Institution follows the Outcome Based Education (OBE) guidelines and defines the course plan formulated by the College Academic Advisory Committee (CAC), consisting of Head of the Institute and Heads of all departments of the institution for effective delivery. Based on the academic calendar of the university, all the departments prepare activity calendar/academic calendar of the department as per the schedule given by the university along with other activities like Remedial Classes, Industrial Visits, Guest lectures, Workshops, faculty, and student development programs. The process of attainment

	of COs, POs, and PSOs starts from writing appropriate COs for each course in the program. The course outcomes are written by the respective faculty member using action verbs of learning levels as suggested by revised Bloom's Taxonomy Predefined PO's are collected. All the COs of every course is mapped with POs and PSOs. A correlation is established between COs and POs, PSOs on the scale of 1 to 3.
6. Distance education/online education:	Siddhartha Institute of Engineering and Technology (SIET) is a private institute and is affiliated to JNTUH University, therefore we cannot offer distance education /online education on our own. Our Institution encourages faculty to adopt pedagogical methodologies. Apart from Chalk & Talk and regular teaching methods, the online teaching methodologies are given equal importance. Some of the methodologies are: Microsoft Teams and Google Forms: Faculty used Microsoft Teams and Google classroom extensively to share notes, presentations and student assignments. The tests and objective exams were conducted used Google forms/classroom. Group Discussions: This involves discussion among a group of students to assess the application of various concepts to gain a better perspective on the merits & demerits of the concepts. Quiz: Faculty conducts quiz on the subject/topic covered to review and revise the previous class concepts or to test their knowledge on a particular topic. Interactive Seminars: During their presentation skills' hours, each group in a class will prepare a recent research topic or technical facts and present. Workshops/Guest Lectures/Seminars/Conferences: Workshops, seminars and conferences are organized every year for gaining the knowledge and increase the research potential of the students and the faculty members. Working Models/Demos: Simple demo is given to illustrate the basic principles which are displayed in the laboratories. Project-Based Learning: In order to learn the practical courses more effectively, the students are instructed to do mini/major projects as per JNTUH rules. This method is extensively used to provide empirical evidence of the theory learnt. Blended Teaching: Usage of Teaching aid Techniques such as video lectures, power-point presentations are in use. We implement active learning strategies such as Collaborative and individual learning activities. Online Teaching: Faculty made a swift transition from classroom to online teaching by using platforms like Microsoft Teams, ZOOM and You-Tube.

QIF

1.Curricular Aspects

1.1 Curricular Planning and Implementation
1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

Answer:

Siddhartha Institute of Engineering and Technology (SIET)has a structured curriculum delivery plan. The academic calendar is prepared beforethe commencement of new academic year.

Academic Calendar: The Institute prepares College and Departmental academic calendars as per the JNTUH academic calendar by incorporating Institutional and Departmental specific activities planned for the Academic year.

College Academic Calendar: Curriculum, Co-Curriculum and Extra-Curriculum activities are incorporated in College Academic Calendar in addition to the JNTUH Academic Calendar for effective Curriculum delivery and **Outcome based Education (OBE)**.

Departmental Academic Calendar:.A well-structured Academic Calendar which is in-line with theJNTUH academic calendar is prepared by the Head of the Department with the approval of Principal. It includes all the departmental activities like Department Academic Committee (DAC) meetings, Workshops, Guest Lectures, Seminars, Field visits, Project Reviews, Parent Teacher Meeting, Campus Recruitment Trainings(CRT), Skill development Programs, Alumni Meet, value added and Add-on programs. Co-Extra-curricular activities are also planned for student enrichment.

Handbook: To familiarize the students with the Institute and their respective courses, a handbook is distributed to the students during First Year Orientation program before the commencement of the class work, which gives the overall idea of the Institute and Curriculum.

Induction Program for the First year students: The Institute conducts induction program for the first year students to overcome their apprehensions and shed their inhibitions and helps them to establish the relationship with the faculty and their peers.

Course File: The faculty prepares a course file which contains Course Objectives, Syllabus, Course Outcomes (CO), Program Outcomes (PO), Lesson Plan, Notes, Assignments, Assessment Methods, Beyond the Syllabus, PPT, CO-PO attainments and CO-PO mapping.

Project Based Learning: The Institute encourages project based learning to equip the students to resolve the real time problems. Third and Fourth year students prepare project dissertations and create the prototype of their project.

Student Centric Learning Methods: Innovative methods such as Presentations,Just-a-Minute,and Group Discussions are adapted to make the class more interactive.

Tutorial and Remedial Classes: Along with the regular classes, tutorial hours are also included in the time-table and a separate schedule is planned for remedial classes to improve student academic performance.

Use of Advanced Teaching Techniques: Teachers are encouraged to impart the curriculum through student centric learning methods such as,Presentations, Assignments, NPTEL Lectures, Group Discussions, Quiz, Role-Play, Seminars, Projects, etc. along with the regular teaching methods.

Subject Allocation: A systematic procedure is followed in allotting the subjects to the faculty. HOD conducts Department Academic Meetings to assigns the subjects to the faculty based on their preferences, experience, area of specialization and previous result analysis of the subject.

Mentoring: Every faculty is assigned with a group of students to mentor throughout the course in which the student's difficulties, requirements and suggestions are recorded for the necessary actions for the effective implementation of the curriculum and personality development.

IQAC plays active role in academic planning and monitoring the curriculum delivery.

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

1.1.2 The institution adheres to the academic calendar including for the conduct of CIE

Answer:

Siddhartha Institute of Engineering & Technology adheres to the Academic Calendar issued by the University as it's an affiliated Institution of JNTUH, Hyderabad.

Institute Academic Calendar is prepared by College Academic Committee (CAC) in line with JNTUH Academic Calendar with Principal involvement.

Every departments prepares a Departmental academic calendar in line with college academic calendar for effective execution opening and closure of the semester, departmental activities like workshops, guest lectures, Field visits, Add on Programs, professional body activities, departmental club activities, college annual functions, curricular, co-curricular and extra-curricular activities. Completion of syllabus, schedule of internal examinations MID I and MID II are as per JNTUH Academic Calendar.

Once the Exam time table is received from University, Principal instructs the HODs to prepare the question papers. For each subject three sets of Descriptive & Objective papers are prepared as per the blooms taxonomy levels .Department Academic Committee Selects one set and submits all the subject question papers to Exam Branch.

Mid Exam Pattern:

Mid question papers are prepared by following the JNTU Guidelines.

The question paper contains Descriptive and objective questions.

Descriptive Question Paper: It contains four descriptive questions from the 50% of the syllabus covered, out of which the student has to answer to any two questions based on his / her choice.

Objective Paper: Objective paper consists of 20 Bits, Ten Fill in the blanks and ten Multiple Choice bits are given.

All the objective questions have to be attempted without any choice.

Department Academic Committee (DAC) assesses the question papers and their taxonomy levels with the help of domain lead and then submits the question papers to exam branch.

Once the exams are conducted as per the schedule, the answer scripts will be handed over to the concerned faculty members for evaluation.

Faculty members evaluate the answer sheets according to the key prepared by them. Once the evaluation is over, the faculty members interact with each and **every student with their answer sheets elucidating them proper answers.**

After the discussion the student's feedback is collected and action is taken to rectify the problems raised by students.

Later, marks list is signed by the concerned faculty member, HOD and Principal. The signed marks list and evaluated answer sheets will be handed over to the exam branch and the marks are uploaded to the University.

A schedule will be prepared for the smooth conduct of **lab Internal**. The practical skill-set of the students will be evaluated in these lab exams. Based on the performance in Lab exam, day to day evaluation, Lab Record and viva-voce conducted by the senior faculty, marks are awarded.

As per the JNTUH calendar, Institute invites the parents to inform their ward's performance during the semester.

Project Evaluation: Mini and Major Projects are guided by internal guides and evaluated with the help of Project Review Committee. Project Reviews are conducted in a well planned manner.

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

1.1.3 Teachers of the Institution participate in following activities related to curriculum development and assessment of the affiliating University and/are represented on the following academic bodies during the last five years

1. *Academic council/BoS of Affiliating university*
2. *Setting of question papers for UG/PG programs*
3. *Design and Development of Curriculum for Add on/ certificate/ Diploma Courses*
4. *Assessment /evaluation process of the affiliating University*

Answer: A. All of the above

File Description	Document
Institutional data in prescribed format	View Document
Details of participation of teachers in various bodies/activities provided as a response to the metric	View Document
Any additional information	View Document
Link for Additional information	View Document

1.2 Academic Flexibility
1.2.1 Percentage of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Answer: 100

1.2.1.1 **Number of Programmes in which CBCS / Elective course system implemented.**

Answer: 10

File Description	Document
Minutes of relevant Academic Council/ BOS meetings	View Document
Institutional data in prescribed format	View Document

Any additional information	[View Document](#)
Link for Additional information	[View Document](#)

1.2.2 Number of Add on /Certificate programs offered during the last five years

Answer: 143

1.2.2.1 **How many Add on /Certificate programs are offered within the last 5 years.**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
38	32	29	24	20

File Description	Document
List of Add on /Certificate programs	[View Document](#)
Brochure or any other document relating to Add on /Certificate programs	[View Document](#)
Any additional information	[View Document](#)
Link for Additional information	[View Document](#)

1.2.3 Average percentage of students enrolled in Certificate/ Add-on programs as against the total number of students during the last five years

Answer: 85.91

1.2.3.1 **Number of students enrolled in subject related Certificate or Add-on programs year wise during last five years**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
1978	1736	1696	1640	2043

File Description	Document
Details of the students enrolled in Subjects related to certificate/Add-on programs	[View Document](#)
Any additional information	[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

Answer:

The institution strongly believes that addressing crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability have a direct impact on achieving the holistic development of the students and the sustainable development of the nation. Therefore, the institute makes a continuous effort in integrating crosscutting issues to be an integral part of the curriculum and to create positive vibration in their studies and social commitment by offering integrated courses as prescribed by the University.

SIET offers courses to address crosscutting issues under various categories such as Professional Ethics, Gender, Human Values, Environment and Sustainability, Cyber security, Constitution of India, Intellectual property Rights, etc. The courses under taken in each category along with the name of the courses and their relevance are as follows:

Professional Ethics

- Organizational Behavior
- Business law and ethics
- Human resource Management entrepreneurship

Harmonious existence of Humanity. These courses also teach the standard for professional practice, proposed appropriate technologies and management patterns to create harmony in professional and personal life.

Gender

Gender Sensitization Lab:

- The course emphasizes the basic value system of Indian culture, instills in the young minds, not only gender equity but also the traditional honor and pride bestowed on women in accordance to Indian Ethics, and develops a sense of appreciation of women in all walks of life.
- Apart from this course, the institution upholds gender equity by providing   equal opportunities for both the genders in terms of admission, training programs, co-curricular and extra-curricular activities. The institution provides equal opportunities for women faculty to become members in various forums and encourages them to participate in women empowerment events.

Human values and Professional Ethics

- Professional Ethics Management and Organizational Behavior
- Business law and ethics
- Human resource Management entrepreneurship

These courses impart a set of ethical standards and basic values for the harmonious existence of Humanity. These courses also teach the standard for professional practice, proposed appropriate technologies and management patterns to create harmony in professional and personal life.

Environment and Sustainability

Disaster management:

- Understanding Disasters, man-made Hazards and Vulnerabilities Understanding disaster management mechanism
- Understanding capacity building concepts and planning of disaster managements
- The subject provides different disasters, tools and methods for disaster management

Environmental Studies:

- Understanding the importance of ecological balance for sustainable development.
- Understanding the impacts of developmental activities and mitigation measures.
- Understanding the environmental policies and regulations.

Constitution of India

- Constitution law concepts and constitutionalism
- Historical perspective of the Constitution of India
- Salient features and characteristics of the Constitution of India
- Scheme of the fundamental rights
- The scheme of the Fundamental Duties and its legal status

Intellectual property Rights

- Importance of intellectual property rights.
- Function of trademarks, acquisition of trade mark rights,
- Fundamentals of copy right law
- Law of patents: Foundation of patent law, patent searching process, ownership rights and transfer

File Description	Document
Upload the list and description of courses which address the Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.	View Document
Any additional information	View Document

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Answer: 56.95

1.3.2.1 **Number of courses that include experiential learning through project work/field work/internship year-wise during last five years**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
393	200	224	188	175

File Description	Document
Programme / Curriculum/ Syllabus of the courses	View Document
MoU's with relevant organizations for these courses, if any Average percentage of courses that include experiential learning through project work/field work/internship	View Document
Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses	View Document
Any additional information	View Document

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

Answer: 92.16

1.3.3.1 **Number of students undertaking project work/field work / internships**

Answer: 2103

File Description	Document
List of programmes and number of students undertaking project work/field work/ /internships	View Document
Any additional information	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the syllabus and its transaction at the institution from the following stakeholders

1) Students

2)Teachers

3)Employers

4)Alumni

Answer: A. All of the above

File Description	Document
Any additional information (Upload)	View Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management (Upload)	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback process of the Institution may be classified as follows:

Options:

1. *Feedback collected, analysed and action taken and feedback available on website*
2. *Feedback collected, analysed and action has been taken*
3. *Feedback collected and analysed*
4. *Feedback collected*
5. *Feedback not collected*

Answer: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Upload any additional information	View Document
URL for feedback report	View Document

2.Teaching-learning and Evaluation
2.1 Student Enrollment and Profile
2.1.1 Average Enrolment percentage (Average of last five years)

Answer: 90.42

2.1.1.1 **Number of students admitted year-wise during last five years**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
661	628	657	588	797

2.1.1.2 **Number of sanctioned seats year wise during last five years**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
816	678	714	642	840

File Description	Document
Institutional data in prescribed format	View Document
Any additional information	View Document

2.1.2 Average percentage of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (exclusive of supernumerary seats)

Answer: 100

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

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
461	383	403	363	475

File Description	Document
Average percentage of seats filled against seats reserved	View Document
Any additional information	View Document

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Answer:

The prime objective of the institute is to cater to the needs of the students based on their learning levels. In order to obtain a degree, a student has to earn the required number of credits as in the curriculum of their respective program of study. Based on the academic performance of the students in their First Mid-term and from also their day-to-day performance in the class rooms are classified into Slow Learners and Advanced Learners.

Measures taken to support advanced learners:

• Encouraged to prepare presentations, write papers and participate in international/national conferences/seminars/workshops.
• Students are encouraged to take up Innovative projects at higher levels under Incubation center.
• Access to advanced study material/Journals is provided.
• Embolden to take up competitive exams for higher studies like GATE, GRE, TOEFL, IELTS, CAT, and PGCET etc.
• Motivating the students to register for NPTEL/SWAYAM online courses.
• Students are encouraged to be members of professional bodies like IEEE, ISTE, IETE, IAENG, CSI, IGBC etc., under which various technical events are organized.
• Provided hands-on training in using advanced apparatus in laboratories in various programs.
• Encouraged to participate in the Industry Internships to provide practical learning and polishing the soft skills.
• Semester toppers and university rank holders are felicitated on the Annual Day.
• Motivated to write articles for the college/departmental magazines.
• Students are Encouraged to Organize Technical Seminars in order to enhance their ability to excel in the Industry.
• The students are deputed into various college level committees to enhance their leadership qualities.
• The students are motivated to participate actively in the activities like Technical Quiz, Aptitude Test,

Group Discussions and Mock Interviews to get placed in Multi-National companies.
- Students are encouraged to participate in NSS Programs.
- Motivated to involve in extra-curricular activities like Plantation, Swachh Bharat mission, Sports and Cultural events.

Measures taken for Slow Learners:

- Efforts are made to identify the cause of their problem and appropriate solutions are worked out.
- Mentor-mentee interaction keeps faculty in constant touch with students, irons out academic and personal issues and stimulates overall personality development.
- Frequent absentee students information is given to their parents through phone calls, SMS and Letters.
- Academic problems are addressed in tutorial classes.
- Assignments are evaluated and suggestions for improvement are given.
- Tutorial classes are taken as remedial sessions for slow learners.
- Remedial classes are included as part of the lesson plan, during which the faculty spends more time in helping slow learners to clear their doubts and repeatedly explaining the tough portions/topics until they understand it.
- CRT classes are conducted every year for the final year students so that it helps them to get placed in Multi-National companies.
- Students are encouraged to participate in NSS Programs.
- Students are encouraged to utilize the library facility which is kept open till 6 pm.

File Description	Document
Upload any additional information	View Document
Past link for additional Information	View Document

2.2.2 Student- Full time teacher ratio (Data for the latest completed academic year)

Answer: 11.19

File Description	Document
Any additional information	View Document

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

Answer:

SIET established the student-centric methods and are successfully implemented in regular academic habit.

They make the students more self-reliant and self-motivated. They also make learning interesting and effective. The institute strongly believes that student-centric learning methodsenhance the lifelong learning skills of the students.

The institute has taken up various student-centric teaching-learning methods to intensify the learning levels of the students. In regular classroom teaching, teachers apply experimental learning, problem-solving methodologies, role-play activities, classroom seminars, group discussions, project works, survey methods, case study, etc.

Apart from classroom teaching, students are taken out on Industrial visits and encouraged to utilizeLibrary e-resources and publish their research papers.

1. **Experiential Learning:**

The institute offers experiential learning for students with the following approaches:

- **Laboratory Sessions:**

Laboratory sessions are conducted for better understanding of theoretical concepts

- **Internship to expand the knowledge on market trends:**

Internships are provided to the Students through MOUs with the industries.

- **Add-on Courses on latest technologies:**

Through these courses the college aims at imparting essential job skills on latest technologies to the students through various certificate programs, thus enabling them to obtain an additional certificate along with their degree certificates. Students can pursue these certificate programs along with their regular Degree programs.

- **Project development:**

The Institute encourages the students to develop real time projects which are helpful to the society.

- **Library e-resources:**

The institute provides NDL logins to accesses text books & references, course materials, project reports, magazines, printed journals & e-journals.

- **Industrial Visits:**

The main aim of the industrial visit is to provide an exposure to the students about practical working environment and gain full awareness about industrial practices.

1. **Participatory Learning:**

- **Group Discussion, Debate:**

Encouraging students to participate in debates and discussions

- **Placement Related Learning:**

The institute provides Campus Recruitment Training for all students from 2nd year onwards for making them ready for placements.

- **Workshops, Guest lectures and Seminars:**

Students are trained on latest trends and innovative technologies by organizing workshops, guest lectures and seminars.

- **Technical club activities:**

The institute has various professional societies like IETE, CSI, ISTE, where the students can participate in the technicalactivities.

1. **Problem-solving methods:**

- **Practical Sessions to get Hands-on experience:**

In every semester, the students will undergo the training activities to explore on industry andadvanced technologies.

- **Assignments& Quizzes:**

The performance and the understanding capability of the student is assessed at the end of the concept through assignments & quizzes.

- **Think -Pair Share:**

Implemented in classrooms to help students to form individual ideas, to involve in discussions and to share their ideas with others.

- **Virtual labs:**

Students are given remote access to the labs in various disciplines, which enable them to avail tools like web-resources, video-lectures and animated demonstrations.

File Description	Document
Upload any additional information	View Document
Link for additional information	View Document

2.3.2 Teachers use ICT enabled tools for effective teaching-learning process.

Answer:

The Faculty at SIET makes the best use of the technology in their teaching process. Our faculty has sound knowledge and skills to use ICT tools to achieve high academic standards. In our campus ICT has been enabled for better communication, presentation of ideas in an effective and relevant way. It is a most effective tool for getting information from multiple sources to help students to build their knowledge database.

- The College is Wi-Fi enabled, which helps the faculty and students to stay connected to the internet to learn updated technologies. The classrooms are equipped withdesktops and projectors which help in the e-learning process. Some of the faculty use and share e-books which are very useful for the students. Faculty use microphone connected speakers to reach all the students in the classroom effectively.
- The library provides access to e-resources vide NPTE, which is helpful during research work. The digital library also helps in accessing and retrieving information from anywhere in the world.
- The faculty utilizes the facilities of well equipped labs for taking practical classes for the courses like CSE, ECE, EEE, Civil and Mechanical engineering.
- The faculty uses PowerPoint presentations in the classrooms for an interactive conversation with the students.
- The faculty uses Microsoft Teams for giving online classes.FDPs are also conducted to train the faculty through this platform.
- The faculty shares preparation materials, PPTs, e-books through different gateways like Microsoft Teams, e-mail, College Portal, Blogs, What'sApp, etc.

Faculty most often uses ICTs for lesson plan development, basic information search and presentation.

Green/White Board teaching:

To convey basics, critical information, history, background theories and equations Green/White board are being used.

Online teaching:

Thefaculty made a swift transition from classroom to online teaching by using platform likeMicrosoft Teams.

Massive Open Online Course:

The faculty and the studentsare encouraged to enrollin certified courses like NPTEL/SWAYAM for better understanding of the subject.

Usage of Social media in Education:

The faculty uses the social media platforms like WhatsApp and Telegram to connect with the students for sharing information.

Google Forms:

The faculty is also using Google forms for assessments.

Ability Assessment test:

Providing various online platforms like Reference globe, CodeTantra, etc., for training and assessing the students in analytical, aptitude and technical skills.

Blogs:

The faculty uses blogs as an instructional, potential online resource to students.

MOODLE:

MOODLE provides an e-learning platform that has different environments for learners with dynamic, interactive, nonlinear access to a wide range of information (text and videos) as well as self-directed learning in onlinecommunication.

File Description	Document
Upload any additional information	View Document
Provide link for webpage describing the ICT enabled tools for effective teaching-learning process	View Document

2.3.3 Ratio of students to mentor for academic and other related issues (Data for the latest completed academic year)

Answer: 12.14

2.3.3.1 Number of mentors

Answer: 188

File Description	Document
Upload year wise, number of students enrolled and full time teachers on roll.	View Document
mentor/mentee ratio	View Document
Circulars pertaining to assigning mentors to mentees	View Document

2.4 Teacher Profile and Quality
2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Answer: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5years(Data Template)	View Document
List of the faculty members authenticated by the Head of	View Document

HEI	
Any additional information	[View Document](#)

2.4.2 Average percentage of full time teachers with 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)

Answer: 16.06

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

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
35	37	42	35	29

File Description	Document
List of number of full time teachers with Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. and number of full time teachers for 5 years (Data Template)	[View Document](#)
Any additional information	[View Document](#)

2.4.3 Average teaching experience of full time teachers in the same institution (Data for the latest completed academic year in number of years)

Answer: 5.99

2.4.3.1 **Total experience of full-time teachers**

Answer: 1222

File Description	Document
List of Teachers including their PAN, designation, dept and experience details(Data Template)	[View Document](#)
Any additional information	[View Document](#)

2.5 Evaluation Process and Reforms
2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode

Answer:

The college is affiliated to JNTU and is guided as per the regulations formulated by the university in all the matters pertaining to syllabus, examination, evaluation and awarding of degree. University issues academic calendar for every year which includes schedule of internal assessment, assignments and other curricular and co-curricular activities. Academic calendar and timetables are disseminated at the beginning of the semester. Transparency is maintained in conduction and assessment of internal exams and assignments for theory, lab, project, and seminar through the mechanisms as followed:

Theory:

- Syllabus and schedule for every internal assessment and assignment is communicated to students well in advance.

- First internal examination is conducted after 8 weeks of commencement of the semester and second internal examination is conducted during 15th week.
- Internal examination question paper along with scheme and key is prepared by the respective faculty and audited by the senior faculty to ensure syllabus coverage, course outcomes and level of revised Bloom`s taxonomy.
- Examinations are conducted by the respective departments and the examination branch.
- The internal examination answer scripts are evaluated within three days of completion of exam schedule.
- Finalized internal marks are displayed on the notice board.
- Consolidated Marks reports signed by HOD and approved by principal are submitted to the University through college academic and examination branch.

Assignment:

Assignment test consisting of five questions are given to each student well before the mid-term exams. Students by referring various text books and other resources answer them and submit to the respective faculty on or before the commencement of mid-term exams. The assignments are then evaluated by the respective faculty and are shown to the students to bring out discrepancies, if any. Corrections are made and marks are noted. Evaluated assignment scripts are returned to the students for their reference.

Lab:

In laboratory courses, day to day evaluation is done in each laboratory session and marks are posted in the students' record book. The consolidated list of marks in each mid-term exam is displayed on the notice board.

Project:

Project reviews are done by the department project review committees based on the rubrics defined by considering various parameters. Project evaluation and awarding of internal marks are based on various problem statements, literature survey, scope of the project, proposed methodology, architecture, design and presentation skills.

Technical Seminar:

Students choose an innovative technology or latest topic and explore the topic. Performance of seminar is evaluated based on the parameters like literature survey, technical content, presentation skills and questioning and answering.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.5.2 Mechanism to deal with internal/external examination related grievances is transparent, time-bound and efficient

Answer:

Mechanism to deal with internal/external examination related grievances:

Institute conducts two types of examinations, Internal Examinations and External Examinations. Internal Examinations are conducted by the Institute and External Examinations are conducted by the University. As part of Internal Examinations, internal assignmentsare given and mid-term exams are conducted. The examinations are conducted with utmost transparency and fairness. The hall tickets are issued to the students for External Examinations well in advanced. Any grievances related to hall tickets like printing

mistakes, photo corrections, gender corrections,or delay in issuance are addressed by the examination cell. The examination cell immediately looks into the matter and takes necessary actions. The concerns of the students are given top priority and resolved immediately.

The general grievances related to internal examinations:

- The students approach their respective faculty for the correction in totaling and evaluating of marks, if any
- Ifa student finds any discrepancy in aggregate marks, he /she approaches HOD, then HOD instructs the internal assessment committee to resolve the issue.
- If a student finds that the marks are not awarded due to wrong numbering, then he /she directly approaches the faculty for redressal.
- All the grievances are therefore resolved with utmost priority. Institute level grievances are resolved within two/three days.

The general grievances related to external examinations:

Any grievance related to external examinations, is addressed by the examination branch. The student in need of help explains his/her grievance to the person in-charge who reviews the situation and provides a solution. In case the university needs to be contacted, a demand draft for the prescribed fee drawn in favour of "THE REGISTRAR JNTUH", payable at Hyderabad is to be submitted by the student at the college Examination branch.The examination branch in-charge submits the DD at Inward Examination building JNTUH duly representing the issue and pursues it till it is resolved. The student is also given provision to make payment through challan which is available only at SBI JNTU, Hyderabad branch. T-Wallet/ Swiping facility using the smart card (Debit/Credit card) is available for the students at the student's service counter.In case of loss of original certificates (PC, CMM, OD and semester wise memorandums) the student approaches the institute in order to obtain the clearance letter stating credentials of the student in support of FIR copy issued by the area police station.Upon student's request the Principal forwards the application to the examination in-charge for verification and return. On confirmation of the student particulars, the Principal approves the issue of clearance letter.

File Description	Document
Any additional information	View Document
Link for additional information	View Document

2.6 Student Performance and Learning Outcomes
2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Answer:

The Institute has clearly stated program outcomes (POs), program specific outcomes (, and course outcomes.

The mechanism followed by the institution to communicate/disseminate outcomes to the teachers and students is as follows.

- College website (http://www.siddhartha.ac.in)
- Department home page on the college website (http://www.siddhartha.ac.in/cse.php)
- Principal office
- Library

- Faculty Room
- Department Library
- Department Brochure
- Course File Handouts
- Canteen
- Newsletter
- Laboratory Manuals
- Corridors
- Classrooms
- College Magazine
- Laboratory Record Books
- Seminar Hall
- Placement cell

The course instructor defines the course outcome for all the courses using revised Bloom's Taxonomy. The Department Advisory Committee and the Head of the Departments review and approve the course outcomes (CO).

Each course outcome is mapped to program outcomes and program specific outcomes in terms of their correlation. Three levels of correlations are used for mapping COs with POs and PSOs, where, 1 is used for indicating low, 2 for medium and 3 for a high level of correlation. The contribution of a course to each PO/PSO is expressed in terms of the average relevance of COs mapped to that particular PO/PSO.

File Description	Document
Upload COs for all Programmes (exemplars from Glossary)	View Document
Upload any additional information	View Document
Past link for Additional information	View Document

2.6.2 Attainment of programme outcomes and course outcomes are evaluated by the institution.

Answer:

SIET has implemented Outcome Based Education which focuses on assessing student performance through outcomes. Course Outcomes, Program Outcomes, and Program Specific Outcomes are calculated to measure the knowledge, skills, and behavior of students for the continuous quality enhancement of each Course and Programs using the below-mentioned procedure.

Primarily, Course Outcomes are articulated as per Bloom taxonomy for all the courses.

Then CO-PO and CO-PSO correlation matrix are set for all the courses in the program.

Target Attainment Level is set for each Course Outcomes.

Course Outcomes	Target Attainment		
	3	2	1
CO1	>80%	>70%	>60%
CO2	>80%	>70%	>60%

CO3	>80%	>70%	>60%
CO4	>80%	>70%	>60%
CO5	>80%	>70%	>60%

Attainment of Course Outcomes is calculated using Direct and Indirect methods.

Assessment Tools used:

1. Direct Assessment Tools:

Assignment:

The assignment is a qualitative performance assessment tool designed to assess student's knowledge of engineering practices, framework, and problem solving. An analytic rubric was developed to asses students' knowledge with respect to the learning outcomes associated with the current scenario tool. The assignment contributes overall marks of 5 towards the internal assessment.

Objective:

Objective is a Multiple-Choice Questions (MCQ) based and fill-in the blanks based examination system that provides an easy way to assess objective skills which involves certain short and analytical concepts of the course. This objective exam contributes overall marks of 10 towards the internal assessment. The objective question paper is given by the University. The objective exam contributes 10 marks towards the internal assessment.

Descriptive:

This type of performance assessment is carried out during the examination sessions which are held twice a semester. Each and every session is focused in attaining the course outcomes. This type of assessment helps in evaluating the students understanding of the course concepts in an elaborative way. This Descriptive exam contributes an overall of 10 marks towards the internal Descriptive marks.

All put together, the internal assessment is evaluated for 25 marks which includes the assignments, Objective, and Descriptive Exams.

Semester End Examination:

Semester end examination is more focused on attainment of course outcomes and program outcomes using descriptive exam.

2. Indirect Assessment Tools:

Survey reports:

Indirect assessment strategies may be easily implemented by embedding them at the end of course Evaluation form, Alumni Survey and Employer Survey.

Graduate/Exit Survey:

Graduate / Exit Survey is conducted during the program for the final year out-going students.

Alumni Survey:

After one year of graduation alumni survey is formulated.

Employer Survey:

After one year of graduation employer survey is assessed.

Finally, in evaluating the Course Outcomes, we take weighted average of the 80 % of the direct assessment and 20 % of the indirect assessment.

File Description	Document
Upload any additional information	View Document
Paste link for Additional information	View Document

2.6.3 Average pass percentage of Students during last five years

Answer: 90.62

2.6.3.1 **Number of final year students who passed the university examination year-wise during the last five years**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
294	464	372	482	564

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

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
420	498	388	497	581

File Description	Document
Upload list of Programmes and number of students passed and appeared in the final year examination (Data Template)	View Document
Upload any additional information	View Document

Paste link for the annual report	[View Document]

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Answer:

File Description	Document
Upload database of all currently enrolled students (Data Template)	[View Document]
Upload any additional information	[View Document]

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, Chairs in the institution during the last five years (INR in Lakhs)

Answer: 104.38

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:

2020-21	2019-20	2018-19	2017-18	2016-17
21.16	47.93	6.85	11.43	17.005

File Description	Document
List of endowments / projects with details of grants	[View Document]
e-copies of the grant award letters for sponsored research projects / endowments	[View Document]
Any additional information	[View Document]

3.1.2 Percentage of teachers recognized as research guides (latest completed academic year)

Answer: 4.9

3.1.2.1 **Number of teachers recognized as research guides**

Answer: 10

File Description	Document
Institutional data in prescribed format	[View Document]
Any additional information	[View Document]

3.1.3 Percentage of departments having Research projects funded by government and non government agencies during the last five years

Answer: 66.67

3.1.3.1 Number of departments having Research projects funded by government and non-government agencies during the last five years

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
5	5	2	4	4

3.1.3.2 Number of departments offering academic programes

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
6	6	6	6	6

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Any additional information	View Document
Paste link to funding agency website	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

Answer:

Siddhartha Institute of Engineering and Technology has initiated an innovative ecosystem to inculcate research activities among students and faculty.

Keeping in line with Digital India Policy for nurturing young minds and making them industry ready, the institute has established an incubation center, research and development cell, entrepreneurial development cell, Intellectual Property Rights (IPR) cell, Centers of Excellence and MOUs used with different organizations.

Incubation Centre:

The objective of setting up an incubation Centre is to give life to the student's ideas. These ideas could be implemented by efficiently utilizing the available resources. Faculty proactively guides and motivates the students in developing their ideas.

Entrepreneur Development Cell (EDC):

The aim of EDC is to set up a platform for aspiring entrepreneurs. This cell organizes seminars, workshops to enhance the skill-set of the students. This also helps the students in acquiring the knowledge to establish collaboration with different industries. SIET, EDC works with an objective which promotes the students as a job creator than a job seeker. EDC conducts training programs for students to make them aware of the required statutory/ regulatory procedures for starting a business.

Intellectual Property Rights Cell (IPR):

This cell organizes seminars and workshops for creating awareness on IPR, filing of patents, technology transfer, copyrights and its challenges, trademarks and advances in IPR in India.

Research and Development Cell:

It encourages students and faculty to carry on with their research. In this regard, it conducts seminars and workshops to motivate the students and faculty fraternity by eminent academicians and industry representatives to enrich the knowledge in the concerned area. It also encourages student visits to research-oriented Labs

MOUs:

The institute has tie up with many industries as well as education Institutes to exchange knowledge in the form of guest lectures, workshops, seminars, Internships, certification training and Industry visits.

Centre of Knowledge

The institute has established the following centers of Excellence

- **Center of Excellence for Internet of Things (IOT):**

The vision of the IOT is to enable SIET as the innovation hub in the emerging technology of Internet of Things. This center aims to provide solutions for specific Indian needs like minimizing the wastage of water and energy, improving the agriculture yield, promotion of good health, providing security and assuring data privacy.

- **Center of Excellence for Artificial Intelligence (AI):**

The vision of this Center is to provide a platform for developing novel and innovative solutions in AI. A gateway to test and deploy the projects taken by SIET

- **Center of Excellence for Building Information Modeling (BIM):**

This center works for creating better visualization of a project by fine tuning the design process.

- **Center of Excellence for Electronic Prototype Design and Development (EPDD):**

This center creates exposure for the students and the faculty in developing prototypes as per the advanced industry standards.

- **Center of Excellence for Skill and Personality Development (SPD):**

This center provides skill and personality development programs for students from SC/ST background.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Answer: 21

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

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
5	3	4	4	5

File Description	Document
Report of the event	View Document
List of workshops/seminars during last 5 years	View Document
Any additional information	View Document

3.3 Research Publications and Awards

3.3.1 Number of Ph.Ds registered per eligible teacher during the last five years

Answer: 3.3

3.3.1.1 **How many Ph.Ds registered per eligible teacher within last five years**

Answer: 33

3.3.1.2 **Number of teachers recognized as guides during the last five years**

Answer: 10

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	View Document
Any additional information	View Document
URL to the research page on HEI website	View Document

3.3.2 Number of research papers per teachers in the Journals notified on UGC website during the last five years

Answer: 2.98

3.3.2.1 **Number of research papers in the Journals notified on UGC website during the last five years.**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
223	161	158	78	43

File Description	Document
List of research papers by title, author, department, name and year of publication	View Document
Any additional information	View Document

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

Answer: 0.62

3.3.3.1 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:

2020-21	2019-20	2018-19	2017-18	2016-17
60	30	48	0	0

File Description	Document
List books and chapters edited volumes/ books published	View Document
Any additional information	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.

Answer:

The institute is well known for humanity, education and discipline. It nurtures the students in all aspects by giving them a formal training like NSS, in order to take social responsibility. The institute encourages the students to participate in extension and out-reach programs and enrich them with social values and responsibilities. The Institute encourages active participation of the students as well as the faculty in the service-oriented programs. For the overall development of the student, the institute encourages them to participate in cultural and sports activities.

Sponsoring Education for Orphans/underprivileged students:

Every year SIET promotesfree education and welfare programs for the orphan students and provides free hostel facility for the underprivileged students.

National Service Scheme (NSS)

The NSS cell of our institute conducts many extension activities for the betterment of the neighborhood community in addressing their social issues. The NSS Cell maintains its social cohesiveness through extended activities like Harithaharam, Swacch Bharat,Women's Day Celebrations, PradhanManthriJeevanBhimaYojana Awareness Camp, Water conservation, Voters Day, Interstate Youth Exchange Program Between Telangana and Andhra Pradesh, National Integration Camp, Girl and women safety programs, Save environment programs, Self Defense programs for girls, Swacchta Pakhwada, NSS Day Celebrations and Awareness on Digital Transactions and Cybercrimes. The institutes conducted extensive health camps such asBlood Donation Camps and Health Awareness Programs(Such as AIDS, HIV, Covid-19, Kill Cancer programs). The institute also visits orphanages, old age homes, home for the blind, etc., to cheer them. SIET has adopted Thallapallyguda as part of Village Adoption scheme for development.

Impact of the NSS Activities

1. The college campus and the surrounding neighborhoods are spick and span as the result of swacch Bharat, Swacchta Pakhwada and harithaharam programs.
2. By conducting health awareness programs there is a significant decline in the spread of diseases.
3. Awareness programs on digital transactions conducted in the villages made the villagers confident enough to use banking apps for transactions, thus curbing the crowd at banks.
4. There is a notable increase in the number camps being conducted and significant increase in the number of participants at these camps every year.
5. SIET held Eye-Check up camp at Thallapallyguda, and gave away the free spectacles to the poor for better vision.

6. The programs conducted on child health, Girl and women safety increased the confidence levels in girls and women, and made them emotionally and physically strong. The programs conducted on health awareness have improved the health of the surrounding community of SIET.

7. The SIET received many letters and certificatesof appreciation and recognition from various organizations like NGOs, National Mineral Development Corporation,TelanganaState Police,Lions club, Hyderabad and also from JNTUH, for the activities conducted for the holistic development of neighboring community.

The SIET has received Certificate of appreciation for providing free education from the Centre for Social Service,Nagole, Hyderabad as a token of gratitude.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

3.4.2 Number of awards and recognitions received for extension activities from government/ government recognised bodies during the last five years

Answer: 39

3.4.2.1 **Total number of awards and recognition received for extension activities from Government/ Government recognised bodies year-wise during the last five years.**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
12	9	7	8	3

File Description	Document
Number of awards for extension activities in last 5 year	View Document
e-copy of the award letters	View Document
Any additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC, Government and Government recognised bodies during the last five years

Answer: 75

3.4.3.1 **Number of extension and outreached Programmes 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:

2020-21	2019-20	2018-19	2017-18	2016-17
10	20	15	17	13

File Description	Document
Reports of the event organized	View Document
Number of extension and outreach Programmes conducted with industry, community etc for the last five years	View Document
Any additional information	View Document

3.4.4 Average percentage of students participating in extension activities at 3.4.3. above during last five years

Answer: 57.9

3.4.4.1 **Total number of Students participating in extension activities conducted in collaboration with industry, community and Non- Government Organizations such as Swachh Bharat, AIDs awareness, Gender issue etc. year-wise during last five years**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
850	1820	1144	1042	1167

File Description	Document
Report of the event	View Document
Average percentage of students participating in extension activities with Govt or NGO etc	View Document
Any additional information	View Document

3.5 Collaboration

3.5.1 Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship per year

Answer: 179

3.5.1.1 **Number of Collaborative activities for research, Faculty exchange, Student exchange/ internship year-wise during the last five years**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
53	45	32	31	18

File Description	Document
e-copies of related Document	View Document
Details of Collaborative activities with institutions/industries for research, Faculty exchange, Student exchange/ internship	View Document
Any additional information	View Document

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

Answer: 26

3.5.2.1 **Number of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. year-wise during the last five years**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
9	8	3	3	3

File Description	Document
e-Copies of the MoUs with institution/ industry/corporate houses	View Document
Details of functional MoUs with institutions of national, international importance, other universities etc during the last five years	View Document
Any additional information	View Document

4.Infrastructure and Learning Resources
4.1 Physical Facilities
4.1.1 The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Answer:

The college is spread over 10 acres of land with a built-up area of 14,391 sq.mts. and is surrounded with lush greenLawns, plants and trees. The Institution has adequate infrastructure andfacilities as per the regulatory requirements of AICTE and JNTUH.

The facilities available are mentioned as below:

Classrooms:

The classrooms are well-furnished and spacious with good ventilation. Each class room is structured with standard electrical fixtures. All the classrooms are equipped with LCD Projectors, audio system and ICT facilities for delivering the effective lectures.Adequate tutorial classroom are also available.

Laboratories:

Fully equipped labs as per the norms of Affiliated University with state-of-art infrastructure are established.Other facilities likeCentre of excellence in Building Information Modeling,Centre of excellence for Electronic prototype design and development facility,Centre of excellence for Internet of things,Centre of Excellence in Artificial Intelligence, and Centre of Excellence in Skill & Personality Development Program Center for SC/ST Students, along with separate R&D cell are also available.

Seminar Halls:

The institution has adequate modern seminar halls equipped with Audio Visual, Wi-Fiand ICT facilities for conducting seminars, conferences, guest lectures, webinars, and workshops.

Computing Equipment:

The Institute has a welldeveloped Computing resourceswhich include 770 computer systems, server, scanners/printers, CD/DVD writers and accessories which are used for various purposes like Lab experiments, research activities,etc.,

Internet connectivity:

500 Mbps broadband dedicated connectivity by Cyber Net links with 25 controlled Wi-Fi access points and optical fiber Connected network for campus-wide internet access.

Library:

Library is automated with e-cap ILMS Software.DigitalLibraryhas 30 systems with web based resources, audio/video materials, e-books, e-journals, DELNET, J-gate, IEEE, NDLsubscription,National & International Journals.

Infrastructure:

The Institute maintains a policy to create and enhance infrastructure to impart effective teaching and learning process. Every block in the campus has lift facility, ramps and wheel chairs for the benefit of challenged students.The main block has Administration department, Examination Branch, Classrooms, Computer Labs with access of internet facilities for NPTEL& SWAYAM courses, Placement & Training Cell and Library all under one roof.

Additional facilities:

The institute has a medical dispensary, Stationary stores and reprography facility. Canteen caters quality and hygienic food to the students and faculty.Purified Drinking water coolers on every floor of each block are in place. For uninterrupted power supply the campus is bracketed with 125 KVA Generator.

To provide sufficient academic and supporting space for effective teaching and learning, the feedback is acquired from various stakeholders,which helps the institution to enhance the need based infrastructure facilities.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.2 The Institution has adequate facilities for cultural activities, sports, games (indoor, outdoor), gymnasium, yoga centre etc.

Answer:

The Institute promotes Sports, Games and various cultural activities and offers the individual an opportunity for all-round development by enhancing self-knowledge, personal development, courage and

social interaction.The sprawling play area for outdoor sports and indoor games room is provided with adequate seating arrangements and material to play.

To develop team spirit, leadership qualities and organizing abilities among the students sports hour is tabled along with regular curriculum and annualsports meet are organized in which students of all departments can participate and enrich their talents. A full time qualified Physical Director is appointed to look after the day-to-day games and sports activities. Students are encouraged to participate in inter college competitions.

The following sports facilities/kits are provided for conducting Sports & Games.

Indoor Games:

1. Chess

2. Caroms

3. Table Tennis

Outdoor Games:

1. Cricket

2. Volley Ball

3. Basket Ball

4. Badminton

5. Kabaddi

6. Kho-Kho

7. Tennicoit

Yoga:

Institute conducts yoga, and meditation classes for staff and students.

Gymnasium:

A fully equipped gym with weighing machine, weight lifting apparatus, pushup beams, different weights and trade mill for fitness is available.

Cultural Activities:

Apart from the Sports and games, Cultural Activities are also taking part in the Institution to create a balanced atmosphere of academic and extra curriculum activities. The institute has an extensive auditorium.The Arts & Cultural Activities Committee is entrusted with the responsibility of training and ensuring student-participation in various intra and inter college competitions. Professional trainers are arranged by The Arts & Cultural Activities Committee for training the students by organizing various activities and events that thoroughly facilitate the overall personality development of the student's viz.

Yoga & Meditation. The students and the faculty members are given orientation about the importance of Yoga & Meditation in reducing stress, improving concentration and physical fitness. Special Yoga Camps are organized for faculty, staff, Boys and Girls separately. The institute has student welfare department which was established and it has various cultural clubs such as literary, dance, singing, dramatic, and photography.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.3 Percentage of classrooms and seminar halls with ICT- enabled facilities such as smart class, LMS, etc. (Data for the latest completed academic year)

Answer: 93.33

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Answer: 42

File Description	Document
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View Document
Upload any additional information	View Document
Paste link for additional information	View Document

4.1.4 Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years(INR in Lakhs)

Answer: 15.85

4.1.4.1 **Expenditure for infrastructure augmentation, excluding salary year-wise during last five years (INR in lakhs)**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
47.34	129.71	68.51	52.88	68.92

File Description	Document
Upload Details of budget allocation, excluding salary during the last five years (Data Template)	View Document
Upload audited utilization statements	View Document
Upload any additional information	View Document

4.2 Library as a Learning Resource
4.2.1 Library is automated using Integrated Library Management System (ILMS)

Answer:

The library is automated using Software E-CAP ILMS which is a web based Integrated Management Software. It is a unique combination of a library automation software. It comes with compatibilityto run on any version of windows and it runs in local area network without internet.The E-CAP is useful in enhancing and streamlining the library operations in a more effective and efficient manner with an Open Access Catalog for students and staff. By using this software the students and faculty cross check the status of the books. A barcode machine is used for issuing, renewing and returning of books.

ECAP permits the administrator to take a report of accession register, number of books issued, to insert and update, delete and view the details, such as title, author, subject, department, publisher, supplier and generate reports in the cataloging module.

Stock maintenance is done effectively using ECAP ILMS software.

All types of reports required for the audit of the library are generated with the use of ECAP software. It also facilitates to create book database along with users' database. Each book and the borrower's card are bar-coded. Issue and return process is fully automated using bar-code system and manual cards are kept as supporting documents for students and faculty.

The Library has a vast collection of 27,050Volumes and 5300 Titles.In addition 120 National Journals, 2050 full text IEEE-online Journals, DELNET, J-Gate Management Science online Journals,e-Journals and 30 General and Technical magazinesand national / regional Newspapers are also available.

The librarian takes care of purchase of Text Books, Reference books and PublishedJournalsasperAICTE&JNTUHnorms.OtherrequirementsofIndustrialrelatedbooks, motivationalbooks and competitivebooks are also indented

Beforethecommencement of every semester in every academic year, textbooksandreference books are procured as per the syllabus requirement of each department. TheLibrarian thenpreparescomparativestatementbasedonthequotations receivedfrom various publishersfor thepurchaseofbooks/journals.

Thelibraryprovidesvariousservicesforthestudentssuchas issuing of books, journals,back volumes,projectreports,photocopyingandaccess to digital library.

AlltheLibrary activitiesarecomputerized. Comfortableseatingand silent atmosphere forcompletereadingis providedinthe library.

The prominent display of sign boards enable divyang to use library with ease. BrailleBlaster software is also made available.

Name of the ILMS Software	ECAP
Nature of Automation	Partially Automated
Version:	Latest version/ Online

The Library NPTEL Portal Contains: (URL: http://192.168.0.108/)

1. 7500 + NPTEL Videos

2. 100+ Subjects NPTEL Text Content

3. 298 Subjects MIT Open Courseware

4. 1000+ E-Books

5. 500+ Projects

6. 1500+ Software Tutorial Videos

7. 2000+ Universities Information

8. 2500+ Companies Information

File Description	Document
Upload any additional information	View Document
Paste link for Additional Information	View Document

4.2.2 The institution has subscription for the following e-resources

1. *e-journals*
2. *e-ShodhSindhu*
3. *Shodhganga Membership*
4. *e-books*
5. *Databases*
6. *Remote access to e-resources*

Answer: A. Any 4 or more of the above

File Description	Document
Upload any additional information	View Document
Details of subscriptions like e-journals, e-ShodhSindhu, Shodhganga Membership , Remote access to library resources, Web interface etc (Data Template)	View Document

4.2.3 Average annual expenditure for purchase of books/e-books and subscription to journals/e- journals during the last five years (INR in Lakhs)

Answer: 7.6

4.2.3.1 **Annual expenditure of purchase of books/e-books and subscription to journals/e- journals year wise during last five years (INR in Lakhs)**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
8.03	8.92	8.67	7.48	4.90

File Description	Document
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the last five years (Data Template)	View Document
Audited statements of accounts	View Document
Any additional information	View Document

4.2.4 Percentage per day usage of library by teachers and students (foot falls and login data for online access) during the latest completed academic year

Answer: 25.42

4.2.4.1 Number of teachers and students using library per day over last one year

Answer: 632

File Description	Document
Details of library usage by teachers and students	View Document
Any additional information	View Document

4.3 IT Infrastructure
4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Answer:

In means of providing internet access to students and faculty, the institute is well equipped of about 770 systems with a connectivity of 500 Mbps bandwidth. The institute also provides Wi-Fi facility for on-campus and the students residing in Campus Hostels.

The Principal's Office, Administrative Office, Examination Section, Training and Placement Cell and Senior Faculty member cabins and all Departments are well equipped with computer systems, scanners, printers, reprography machines, Wi-Fi routers with advanced configurations.

The computer labs are with internet facility and are respectively installed withlicensed software in all departmental labs depending on requirement like MATLab, AutoCAD, StadPro, Rational Rose, Turbo C++ which are upgraded to meet the standards as provided in the syllabus and in pursuing of student's need, if any.

Up gradation of IT Infrastructure:

Timely considering the need of technology and pursuing the academic curriculum, the institute has upgraded its IT infrastructure such as procuring of a Server and Firewall, reforming the CRT Monitors to LCD Monitors, enhancing 1 GB RAMs to 8 GB RAMs, increase of Internet Bandwidth from 100 Mbps to 500 Mbps including installations of Wi-Fi routers in entire campus. To provide more resources in Teaching and Learning the institute has procured LCD Projectors for classrooms and seminar hall along with Smart Interactive Board.

Implementation of Bio-Metric machines for monitoring of Faculty & Staff. CCTV's are also installed throughout the campus in perceptionof electronic surveillance. Printer and Scannersavailable in the campus are increased year after year as per the requirement.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Answer: 2.96

File Description	Document

Upload any additional information	View Document
Student – computer ratio	View Document

4.3.3 Bandwidth of internet connection in the Institution

Answer: A. ≥50 MBPS

File Description	Document
Upload any additional Information	View Document
Details of available bandwidth of internet connection in the Institution	View Document

4.4 Maintenance of Campus Infrastructure

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

Answer: 19.14

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)**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
115.79	112.19	25.62	128.01	34.03

File Description	Document
Upload any additional information	View Document
Details about assigned budget and expenditure on physical facilities and academic support facilities (Data Templates)	View Document
Audited statements of accounts	View Document

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Answer:

The Institution has appointed full time staff for maintaining facilities such as Buildings, Transport, Electrical, Housekeeping, Gardening etc. Regular cleaning of College floors, classrooms, laboratories, lab equipment, restrooms,college grounds, and internal roads, are being done by the housekeeping team under the supervision of the floor in-charge. College transport vehicles are regularly serviced and maintained as per the state transport regulation act. Electrical wiring and switch boards are supervised and maintained by college electrician. Lawns and gardens are mowed and trimmed by a full time gardener. Stock verification and up-keeping of the equipment in all labs and other facilities is done at the end of every year by IQAC and the report is submitted to the Principal for further action.

LABORATORY:

Periodical inspection of equipment is carried out as per the schedule given by the lab in-charges. In addition, regular maintenance is being done and respective registers are maintained in the laboratories.

Minor repairs are carried out by the lab in-charges or the faculty in-charge of the concernedlab.

Major repairs ofequipment will be carried out by the following procedures:

1. The service request is forwarded to the Principal through Lab-in-Charge and HOD

2. After approval, quotation for service is called for and the recommended service provider is identified and forwarded to the Principal for approval.

3. After approval, the service is carried out in the presence of Lab-in-Charge

4. After servicing, the work completion statement and bills are submitted to the accounts department through proper channel for payment.

5. Periodical maintenance is carried out in all labs. At the beginning of the semester, required consumables and nonconsumables are procured according to the needs. All the lab experiments and maintenance are supervised by a well trained technical staff. The safety precautionsdo's & don'ts, are displaced in each laboratory, First aid box, fire extinguisher are provided in each lab.

LIBRARY MAINTENANCE:

Maintenance of library material involves continuous monitoring of the stack, displaying of new material on the display racks, verification of the bundles and arranging the books and periodicals in the shelves after every use. Besides these, the material is dusted and cleaned at regular intervals to reduce the damage caused by dust, insects and pest invasion. This institution has library monitoring committee to observe the above maintenance.

SPORTS ROOM:

Indoor and outdoor sports infrastructure facilities are properly maintained throughout the year. Playgrounds, sports materials, and other field and gym equipment are also maintained regularly. Stock Register and Issue Register are maintained to ensure the proper handling of the sports equipment.

IT MANTENANCE:

System administrator resolves the issues like installation of software, anti-virus, firewalls, hardware trouble shoot and looks after maintenance of computers and CC cameras, biometric and network issues. Installation of antivirus and firewalls are installed to secure the software and systems. A weekly status is checked on the condition of hardware and software and is noted in the register. Breakdown maintenances of the system failures due to SMPS problem or boot failure is recorded in the register. Minor problems are rectified by the System Administrators. For resolving the major failures, support from the dealer is taken with the permission of the Head of the Institution. Software and antivirus are updated periodically.

CLASSROOMS:

Atthe beginning of each semester the readiness of classroom and   ICT facilities are checked. Supervisor regularly maintains cleanlinessof the class room boards, furniture, fans & lights.

ELECTRICAL MAINTENANCE:

Regular servicing and maintenance will be carried out by the Supervisors for providing fresh and filtered water to the entire institution. Most of the maintenance work is completed during the summer break and a

close monitoring of maintenance activities are a prime responsibility of HOD/EEE and the In-charges of various facilities.Electrical maintenance is followed up by the HOD/EEE along with the recognized electrical supervisor appointed by the college. This institution has a committee to maintain the electrical supply, Electrical Trouble Shooting, Periodical maintenance of 11KV Electrical Installations (11KV Transformer), Switch gear, Operation of Diesel Generator set, Monthly Energy Consumption Records etc.

TRANSPORTATION:

Excellent transportation facilityis provided for both students and the staff. College buses fly from all parts of the city. The college is well connected by TSRTC busses to the city.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.Student Support and Progression
5.1 Student Support
5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during last five years

Answer: 59.01

5.1.1.1 **Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
1203	1250	1162	1195	1419

File Description	Document
upload self attested letter with the list of students sanctioned scholarship	View Document
Upload any additional information Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years (Data Template)	View Document

5.1.2 Average percentage of students benefitted by scholarships, freeships etc. provided by the institution / non- government agencies during the last five years

Answer: 15.74

5.1.2.1 **Number of students benefited by scholarships and free ships provided by the institution, Government and non-government bodies, industries, individuals, philanthropists during the last five years (other than students receiving scholarships under the government schemes for reserved categories)**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
453	318	253	335	309

File Description	Document
Upload any additional information	View Document
Number of students benefited by scholarships and freeships institution / non- government agencies in last 5 years (Date Template)	View Document

5.1.3 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*

Answer: A. All of the above

File Description	Document
Details of capability building and skills enhancement initiatives (Data Template)	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Answer: 48.02

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

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
1162	1011	827	922	1185

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	View Document
Any additional information	View Document

5.1.5 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*

Answer: A. All of the above

File Description	Document
Upload any additional information	View Document
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	View Document
Details of student grievances including sexual harassment and ragging cases	View Document

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Answer: 65.53

5.2.1.1 **Number of outgoing students placed year - wise during the last five years.**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
256	319	273	329	384

File Description	Document
Upload any additional information	View Document
Self attested list of students placed	View Document
Details of student placement during the last five years (Data Template)	View Document

5.2.2 Average percentage of students progressing to higher education during the last five years

Answer: 23.33

5.2.2.1 **Number of outgoing student progression to higher education during last five years**

Answer: 98

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education (Data Template)	View Document
Any additional information	View Document

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: IIT-JAM/CLAT/ NET/SLET/GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/State government examinations, etc.)

Answer: 76.29

5.2.3.1 **Number of students qualifying in state/ national/ international level examinations (eg: IIT/JAM/ NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government**

examinations, *etc.*)) year-wise during last five years

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
23	14	17	13	13

5.2.3.2 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

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
41	39	19	13	13

File Description	Document
Upload supporting data for the same	[View Document](#)
Number of students qualifying in state/ national/ international level examinations during the last five years (Data Template)	[View Document](#)
Any additional information	[View Document](#)

5.3 Student Participation and Activities

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

Answer: 65

5.3.1.1 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) year-wise during the last five years.

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
13	16	10	17	9

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at university/state/ national/international level during the last five year	[View Document](#)
e-copies of award letters and certificates	[View Document](#)
Any additional information	[View Document](#)

5.3.2 Institution facilitates students' representation and engagement in various administrative, co-curricular and extracurricular activities following duly established processes and norms (student council, students representation on various bodies)

Answer:

The main objective of the student council of **SIET** is to actively involve the students in the development of **SIET**and also to enhance their personality skills by allowing them to participatein various programs conducted within and outside the campus.The programs include annual celebrations, cultural programs, co-curricular activities, organizational skills and interactive programs with the members of faculty coordinator.

The **SIET** provides liberty and freedom for the students to rule, manage and learn themselves while they are in and out of the campus.

They are empowered to perform the activities independently like working on their soft skills, coordination, team work, collaborative activities, and networkingandin building self-belief.

In every academic year of **SIET,** student council is formulated as per the nominal rolls of the students who have show cased their talents in curriculum, co-curriculum and extra curriculum related activities with good leadership qualities. .

The Student Levelsof Participation

1. The **SIET**academic and administrative committees
2. Organizing career oriented activities, Institute level facilities.
3. The Institute Co-curricular and Extra-Curricular Performances.
4. College Disciplinary and Monitoring Planning.

1. The SIET academic(Curricular) and administrative committees

- InternalQualityAssuranceCell(IQAC)
- Department advisory committee(DAC)
- Library and Professional Societies Committee.
- Entrepreneurship Development, Publication.
- Placement and Training, Alumni.
- Grievances and Redressal Committee.

2. Organizing career oriented activities, Institute level facilities.

- Women Empowerment & Prevention of Sexual Harassment.
- Cultural Committee.
- Website/ IT/ ICT,Canteen Committee.
- Disciplinary, Transport Committee.

1. **The Institute Co-curricular and Extra-Curricular Performances:**
2. **Co-Curricular Committees:**

- Vibrant Co-curricular committee for the student community is prevailing whose main responsibility is to represent the students in various committees. The main function of this committee is toperiodicallyand regularly conduct the Seminars, Workshops,FDPs, Conferences and Technical-fest etc.
- Professional Chapter of Students: Like IETE, MISTE.
- Department collaboration Activities.

3. Extra-Curricular Committees:

- NSS/NCC Activities and Medical Facilities Committee.

- SC/ST Committee (Equal Opportunities Committee).
- Students Welfare and extracurricular activities Committee.
- Annual day, Sports,Hostel and games committee.
- Eco /Health Club.

1. **College Disciplinary and Monitoring Planning.**
2. **Anti Ragging Committee**

Institute **Anti ragging committee** is formulated under the guidelines of AICTE

The following are the formation of the committee.

- All the head of the departments
- Hostel chief warden
- Student coordinators
- Inspector of Police, Ibrahimpatnam Police station

4. Anti-Sexual Harassment Committee

SIET has organized anti-sexual harassment committee with the members of senior faculty from all the departments and students from all the branches for preventing any act/type sexual harassment.

5. Student Grievance Redressal Committee

A student grievance redressal committee is formulated by SIET.

Following are the functions of redressal committee.

- To receive the grievance in person.
- To analyze and examine the nature of grievance.
- To deliberate with the members of committee and call for remarks if necessary

To resolve the issues impartially.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Answer: 595.6

5.3.3.1 **Number of sports and cultural events/competitions in which students of the Institution participated year-wise during last five years**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
602	691	563	569	553

File Description	Document
Upload any additional information	View Document
Report of the event	View Document
Number of sports and cultural events/competitions in which students of the Institution participated during last five years (organised by the institution/other institutions (Data Template)	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

Answer:

Siddhartha Institute of Engineering And Technology Alumni Association (SIET AA) is administered by an Alumni committee. The alumni association is very dynamic in promoting interactions and camaraderie among the alumni, staff and the management. Besides helping the alumni in all possible ways, it also lends itin maintaining the college to achieve its Magical goals as per its vision and mission. SIET has conducted various alumni association meetings at different places in India and also planning to conduct in UK, U.S.A in near future.

 The main objectives of this official Alumni Association are to:

- Create a strong network between Alumni and Institute.
- Create a strong network for Alumni progression as well as student's progression.
- To promote a sustained sense of belonging to the Alma Mater among the Alumni by being in regular contact with them.
- To provide a forum for the Alumni for exchange of ideas on academic, cultural and social issues by organizing and coordinating reunion activities of the Alumni.
- Maintaining the updated and current information of all Alumni.

With these objectives, we are sure that we can increase strong bonding among alumni and Institute. Many of our Alumni occupied prominent positions in different sectors like in Banking, Finance, IT, Teaching, Entrepreneur etc. Institute is having a track record of outstanding performances of its pass-outs in different spheres. Many of them are occupying key positions in many private and public sector undertakings in India and abroad and have brought laurels to the institute. Most of alumni always contributed their knowledge and helped to institute in different way:

ALUMNI ASSOCIATION SUPPORT FINANCIAL AND NON-FINANCIAL ASSISTANCE:

Alumni association supports the college in nurturing the students to develop their technical skills, soft skills by providing career guidance for improving the placements in ongoing placements. Alumni association funding is used to enhance the student community by participating them in FDP's, webinars, guest lectures, workshop which in turn elevates their leadership qualities. The college invites the Alumni for guiding the youngbudding engineers of the institution to inculcate the students on behaviouralManagement, Current Opportunities, Stress Management, Career Management, Time Management, Emotional Awareness etc., Special talks are also arranged on Higher Education Topics, Current Events, Industrial revolutions and technological changes.

Talented alumni will likely have a wealth of experience and skills to share with current students via talks and newsletters. "Creating an engaged alumni network is beneficial for the college because engaged

graduates are much more likely to want to "give back" to the SIET; that could be, for example, by coming back and sharing their experiences with prospective and current students – there are no better ambassadors for our SIET than our alumni!"Alumni meetings are conducted regularly whoseminutes of meeting and events are recorded.Databaseis maintained comprising of all alumni names,their addresses, contact details and organizational details etc.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

5.4.2 Alumni contribution during the last five years (INR in lakhs)

Answer: A. ≥ 5 Lakhs

File Description	Document
Upload any additional information	View Document
Link for any additional information	View Document

6.Governance, Leadership and Management
6.1 Institutional Vision and Leadership
6.1.1 The governance of the institution is reflective of and in tune with the vision and mission of the institution

Answer:

SIET institutionalized governance with participation of teachers in decision and policy making as per the guidelines of AICTE and affiliated university, JNTUH.

Vision of the Institute:

To be a pioneer institute and leader in engineering education whose primary concern would be the development of the human race and betterment of society through their knowledge, technological understanding and the spirit of progress.

Mission of the Institute:

1. To create a conductive environment for the student centric learning and industry institute interaction.
2. To integrate the state of the art infrastructure, facilities and cutting edge academic delivery.
3. To develop and nurture socially conscious technocrats through continuing education and research.

Quality Policy:

We at Siddhartha Institute of Engineering & Technology endeavour to uphold excellence in all aspects by adopting best practices in effort and effect.

The Governing Body is the highest body in the hierarchy which is also the primary body in decision making and governance of the institution. This body is constituted with Chairman of the society, Secretary and Correspondent, Principal of the institution, JNTUH nominee, Educationalist, Industrialist, faculty member, any other management member as per AICTE guidelines. Strategic plan framing involves bottom up approach with all stakeholders participating and suggesting the necessary incorporations or amendments which has to be implemented as ensured by the Governing Body.

Admission, Budget, infrastructure, TLP, placements which are in line with the institution's mission, Vision and Quality Policy are handled by the governing body with equal involvement of stakeholders. The Governing Body ensures the implementation of all decisions at all levels of hierarchy solely and independently.

Admissions are entrusted to a team of highly active members who ensure progressive admission count every year. Yearly budget is proposed well in advance before the academic year starts which has to be duly discussed in the Governing Body meetings for approval. The institution is equipped with highly sophisticated laboratories and ICT enabled classrooms. SIET has a strong placement and training division which has a commendable track of placing students with packages in well-established MNC'S.

All the proceedings are recorded with action taken reports and all the issues are appraised to the Governing Body regularly.

The institute Quality Policy is we at Siddhartha Institute of Engineering and Technology endeavour to uphold excellence in all aspects by adopting best practices in effort and effect.

The Governing Body ensures truly democratic, decentralized and transparent governance with involvement of all faculties, committees, finance department, controller of Exams, TPO and Heads of various committees. The Governing body reviews the TLP, quality measures and is prominent in making overall decisions for the growth of the organisation. Meetings are held regularly to discuss all matters related to development of faculty, students and overall college progress.

The Governing Body timely monitors the quality initiatives and activities through Internal Quality Assurance Cell (IQAC). IQAC conducts audits, awareness programs, review of TLP, feedback analysis, student survey and Training programs for faculty and staff periodically. The purchase committee of the college looks into decisions of purchase, upgradation of infrastructure.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.1.2 The effective leadership is visible in various institutional practices such as decentralization and participative management

Answer:

The management of SIET firmly believes in the growth and development of the institution achieved through good governance and participative management of all stakeholders and also maintains transparency and confidentiality. Good governance involves decentralization and delegating responsibilities to Deans, Heads of the Department, senior faculties, various committee members, Administration department, Exam Branch Controllers, TPO. This ensures participatory management and active involvement of all staff members through various committees and statutory bodies. The Principal is the Head of institution in the hierarchy, followed by Deans and Heads of department to delegate responsibilities involving administrative and academic activities. Effective decision making with proper authority and financial support are significant for decentralisation which helps in Policy making, planning and management.

Decentralization is implemented through various committees, statutory bodies, along with involvement of stakeholders for framing guidelines, framing mission, vision and Quality Policy improving efficiency of the system and quality.

The performance of institution, decision making and policies are instantiated by the governing body members with involvement of all stakeholders. The top down approach of the governing body focuses on development of the institution with active involvement of stakeholders at all levels.

Institution also practices transparent governance by including MOM of Governing Body, various committees in the college website, through circulars and meeting information that is shared to employees. The organisation chart of SIET depicts the delegation of roles and responsibilities adhered to each and every member in hierarchy. The smooth functioning of the institution entirely depends on the teamwork and harmony of all the stakeholders of the organisation at various levels.

Case study- budget proposal: STTP Budget proposal Approval and Allocation

SIET Organized an AICTE Sponsored STTP on integration of renewal energy resources with electric vehicles for green transportation.

The aim of STTP is to familiarize the faculty and industry personnel with knowledge of electric vehicle technology. This program covered the advances of battery powered electric vehicle battery charging technology. SIET has applied for AICTE grants under AQIS 2019-2020 for conduct of STTP or FDP and it was approved and a grant of Rs.2, 53,333 rupees was sanctioned.

The Budget proposal was prepared by Head of the Departments administrative in-charge and was submitted to AICTE and the grant was released by AICTE under AQIS. HOD instructs the Department, STTP in charges, advisory committee to prepare the budget proposal for activities which include website development, brochure design resource person talks, publicity and media along with demonstration kits.

The STTP in-charges then co-ordinate with the teaching and non-teaching staff to form various committees by allocating in charges for STTP brochures, website design and development committee, transportation committee, hospitality committee, technical review committee, photography and media committee etc. These committee in-charges prepare a budget proposal of their requirements to the concerned Heads.

Apart from the grant received from AICTE, SIET incurred additional expenses which are included in the final budget report.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.2 Strategy Development and Deployment
6.2.1 The institutional Strategic / Perspective plan is effectively deployed

Answer:

The quality policy of the institute states "SIET is engaged in imparting quality technical education and training to prepare responsible technocrats for effective nation building. The quality policy aims at achieving customer satisfaction. It constantly strives towards achieving high standards of teaching, training and development of human resources by encouraging its faculty and staff to work as a team and to update their knowledge and skills continually to match the needs of industry."

The institute strongly believes that to reach the position as stated in Vision and Mission statements, the human resource is the prime factor amongst the other resources. In the present scenario of liberalization and highly competitive world, to become a world class institute one has to bestow the end-user with the best possible service. Basing on this idea the quality policy was developed. All the activities are driven by the quality policy and are closely monitored. The various performance indicators like pass percentage, input ranks, placements, achievements in co-curricular activities of students and the achievements of the faculty will be critically analyzed each semester / year and reviewed.

Review

The institution has 30 active committees which work constantly towards overall student development. High level committees constitute governing body, statutory body, Middle level committers and Principal, Deans, HOD's, Controller of examination, IQAC and various low-level committees ensure overall development and growth of Institution along policy monitoring. Bottom-up approach ensures decision making, policy making, overall development to be in synchronization and inclusion of teachers, administration staff at all levels for institution growth.

Successful implementation of the processes is monitored at various levels by evaluating the students' performance by teachers, teachers' performance by HOD and HODs' performance by the Principal. The co-ordination of IQAC in the various monitoring processes also helps in the review processes.

Effective leadership involves a smooth functioning by Internal Quality Assurance Cell whose primary entity is to monitor the quality activities of the institution. GOB timely monitors the quality activities of IQAC regularly and periodically and gives timely suggestions whenever required. The decentralisation of governance into various committees primarily focuses to strengthen the administration and strive for institution progress towards realizing the vision, mission adhering to Quality Policy. Hence the Governing Body implements good governance to ensure participative and active involvement of various stakeholders for overall progress of the institution.

Perspective plans of the Institution are:

Institution getting accredited with NAAC

Institution getting autonomous status after getting accredited with NAAC

Establishing well equipped Centre of Excellences

Establishment of Intellectual property rights (IPR) Cell

Establishment of Research & Development Centers

Organize Labs Using Emerging Technologies

Establishment of Incubation Center to meet the challenges of emerging technologies

Effective utilization of Enterprise resource planning (ERP)

ECAP Implementation in TLP, Examination, Accounts and Administration

Effective implementation of the National Cadet Corps (NCC) at institute level

Student Motivational/Empowerment Cell

All Class rooms/Labs well equipped with LCD projectors

Upgrading Internet Bandwidth to meet the online classes' requirements especially in this pandemic situation

File Description	Document
Upload any additional information	View Document
strategic Plan and deployment documents on the website	View Document
Paste link for additional information	View Document

6.2.2 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules and procedures, etc.

Answer:

A well-defined hierachy and organization structure is essential for effective decision making and policy framing. SIET has an organized hierarchy which leads to sustainable, consistent and effective involvement of external members in various Committees.

Principal the head of institution along with experts in the prominent positions in the hierarchy are responsible for decision making, policy framing. Principal, Hod's along with the faculty members are involved in reviewing the progress of the institution participative management is practiced by constituting various Committees involving faculty. The management has always welcomed the views and suggestions expressed by the faculties in taking institution ahead. The presence of the faculty can be found in all the following Committees.

1. Governing body Committee
2. Research and development cell
3. Finance and Purchase Committee
4. Student training and Placement cell
5. Students Affairs,Welfare & Alumni cell
6. Disciplinary Committee
7. Women Welfare Committee
8. Library Committee
9. Canteen Committee
10. Grievance Redressal Committee
11. Anti ragging Committee
12. Anti sexual harassment Committee
13. Right to information cell
14. College academic Committee
15. Transport Committee
16. Sports & Games Committee
17. NSS cell
18. Hostel Committee
19. Social welfare Committee
20. Industry Institute Interaction cell
21. Intellectual Property Rights Cell
22. Public Relations (press, media & publications Committee)
23. Examination/ timetable Committee
24. Entrepreneurship Development Cell
25. Website/ ICT/Self learning Committee
26. Internal Quality Assurance Committee
27. Professional Societies Committee
28. Renewble Energy Committee
29. Maintenance Committee
30. Anti -Drug Commitee

Such other authorities as may be declared by the Statutes to be authorities of the Institution.

1. SIET has a defined organizational structure to support decision-making processes which is consistent.

2. The institution has a number of Committees for decentralized management activities for smooth functioning and effective learning to the students.

3. The Principal, and HODs, with the help of faculty members, reviews the progress and problems faced by various Committees. The presence of the faculty can be found in all the Committees.

4. The details of the roles and responsibilities of various Committees are well defined in order to ensure clarity and accountability.

5. External members are part of Governing Bodies for enhancing the broader base and bringing transparency and fairness in the system.

6. The institution has a number of students and faculty Committees for decentralized management activities/ affairs for better functioning and effective learning of the students.

7. Service Rules, Recruitment procedures, Promotion Policies are provided in the Service and Conduct Rule Book approved by the Secretary. Achievements of the staff are recognized with financial and non-financial incentives.

8. The Grievances of the staff are redressed timely to keep their motivation all time for their performance efficiency and satisfaction.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document
Link to Organogram of the Institution webpage	View Document

6.2.3 Implementation of e-governance in areas of operation

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

Answer: A. All of the above

File Description	Document
Screen shots of user interfaces	View Document
ERP (Enterprise Resource Planning) Document	View Document
Details of implementation of e-governance in areas of operation, Administration etc	View Document
Any additional information	View Document

6.3 Faculty Empowerment Strategies
6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Answer:

Various welfare measures are provided for the teaching and non teaching faculty to ensure their well being and values their contribution towards the progress of the institution.

Teaching Staff:

- Providing Training to teachers for excellence in upgrading their credentials and skill sets.
- Sponsoring Faculty & Staff for pursuing higher education.
- Sponsoring Faculty & staff for attending workshops, conferences at national level by granting academic leave.
- TA and DA allowances provided for FDP, workshops, seminar and training programmes to the teaching faculty.
- Organizing Faculty development programmes periodically and regularly.
- Systematic organization of professional society activities.
- Development of its teaching and non teaching staff.
- Subsidized bus facility is provided for teaching and non teaching staff
- Subsidized mess facility is provided for teaching and non teaching staff

- Provident Fund for eligible Faculty.
- Resident nursing facility is available in the college to meet medical emergencies and in case of emergency a vehicle is readily available within the institute.
- Group health insurance for all the staff members.
- Technical assistance to meet emergency medical expenses of staff.
- Medical leave for hospitalized staff members.
- Maternity benefits, Paternity leaves, bereavement leaves.
- Free mobile facility for eligible staff
- Gym facility, yoga centre for health and fitness.
- College providing cash less transactions/ digital payment facility in campus.
- If the faculty members meet with an accident the salary payment of the period will be provided.
- Baby care centre is available to meet the requirements of infants for working women.

Non-Teaching Staff:

- Festival advance as and when required.
- Group insurance is available.
- Crash Course in Computer Basics for the interested Supporting Staff.
- Casual Leaves are provided for all the Supporting Staff.
- Free transportation facilities for all the non-teaching staff members.
- Fee concession for the faculty's children.
- Festival bonus as and when required

On-Duty for attending JNTUH.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

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

Answer: 30.08

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**

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
70	68	68	65	62

File Description	Document
Upload any additional information	View Document
Details of teachers provided with financial support to attend conference, workshops etc during the last five years	View Document

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Answer: 7.2

6.3.3.1 Total number of professional development /administrative training Programmes organized by the institution for teaching and non teaching staff year-wise during the last five years

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
8	9	7	6	6

File Description	Document
Upload any additional information	View Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centres)	View Document
Reports of Academic Staff College or similar centers	View Document
Details of professional development / administrative training Programmes organized by the University for teaching and non teaching staff	View Document

6.3.4 Average percentage of teachers undergoing online/ face-to-face Faculty Development Programmes (FDP)during the last five years (Professional Development Programmes, Orientation / Induction Programmes, Refresher Course, Short Term Course).

Answer: 47.08

6.3.4.1 Total number of teachers attending professional development Programmes viz., Orientation / Induction Programme, Refresher Course, Short Term Course year-wise during the last five years

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
140	115	98	85	78

File Description	Document
Upload any additional information	View Document
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View Document
IQAC report summary	View Document
Details of teachers attending professional development programmes during the last five years	View Document

6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

Answer:

SIET believes in optimizing the contribution of individual faculty through a performance appraisal system. The performance appraisal system helps to access the progress and potential of staff members. The self appraisal form is filled by the individual staff members and is further forwarded to IQAC/ HOD/Principal and management for evaluation. Assessing the performance is based on following performance indicators:-

The ultimate aim of appraisal of faculty performance is to ensure that the program objectives are served best. The following methods are practiced in the college, among other informal ways:

1. Course Monitoring
2. Student Feed Back
3. Annual Faculty Performance Appraisal

The various assessment processes are designed to achieve the following objectives with respect to faculty:

- Awareness of the various activities expected to be carried out by them.
- Awareness of the ideas / parameters involved and methods of assessment
- To have feedback on their performance in various rolls
- To become aware of weakness and consciously work on them for improvement
- To reward faculty who do well and counsel those who fare poorly
- To assess the suitability of a teacher for a subject or other curricular/ co-curricular activities and to take corrective measures in time.

Annual Faculty Performance Appraisal

Annual Faculty Performance Appraisal is the annual confidential report to be submitted by faculty each year towards the end of the academic year.

The appraisal form consists of two parts. Part I consists of the information on the subjects handled, research, publications, other curricular and co-curricular activities and future plans. It also has the appraisal by the HOD on the personal and interpersonal traits of the teacher.

Part II is an assessment that aims to obtain an overall index of performance of a teacher, by quantification and rating of various activities.

The major activities of the teacher, referred to as criterion, are divided into classroom instruction, participation in dept. activities, projects guidance, consultancy, publications, and student feedback. Each Criterion consists of a number of specific minor activities or functions which are allotted certain marks. The total marks secured for a criterion are expressed as a ratio of certain maximum, and also assigned a relative weightage out of 100. The format consists of self-assessment as well as by HOD.

Part III is the report by the Principal and the decision of the Principal will be final which includes HOD Appraisal.

The appraisal acts as a log record of instruction, research and other activities during the year and makes one aware of the parameters of appraisal. It also helps to prompt the teacher to set up short and long range goals for oneself, as well as the department.

The institution organizes short term training programs, guest lectures, FDP's to strengthen the potential of staff which ultimately aids in strengthening the performance of every individual of the organization.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.4 Financial Management and Resource Mobilization
6.4.1 Institution conducts internal and external financial audits regularly

Answer:

Allocation of funds is significant for financial management and planning which strategizes the growth of the institution. SIET has a mechanism for financial management for internal and external financial audits. The college has a robust finance committee in place which plans and manages all the financial needs of the institution periodically.

The Institution conducts internal and external audits regularly.

State Government reimburses the tuition fee for eligible students under (TAFRC) Telangana State Admission and Fee Regulatory Committee. AFRC reviews the fee structure for every three years.

Internal Audit:

Internal audit is carried out by the finance committee. The finance committee reviews the Budget, statement of expenses are received by Finance committee quarterly every year. The finance committee reviews the records quarterly, investigates and checks all the instalments, receipts, diaries, vouchers of the exchanges, cash books, records and all ledgers in each monetary year.

External Audit:

An external qualified Chartered Accountant is appointed by the GP Educational Society for auditing of college accounts every year. The Governing Body reviews the budget proposals and internal and external audit reports and rectifies changes and remarks are given to auditors for future auditing in coming year. A thorough verification and investigation of all the transactions are carried out in each financial year. Depending upon the observations given by the internal auditor, action will be initiated and a copy of internal audit report is preserved for futuristic purpose. The external statutory auditor shall visit the institute office once in a year for vouching audit and submitting for final auditing report. The proposals are made on different heads such as library expenses, laboratory equipment, building and infrastructure, salary payments, sports facilities and other maintenance expenses. The auditors prepare and submit the income and expenditure statement and Balance Sheet and Depreciation statement. The report of external auditor of the last year along with audited Balance Sheet and Income & Expenditure account are displayed in the college website for the reference to stake holders. After the duly approval, the financial accounts, documents could be used for all statutory purposes. The accounts are finalized in the month of April/May and audited statements are prepared in the month of June/July duly signed by the Principal, and chartered accountant. At the beginning of each financial year the proposal budget is prepared in accordance with the expenditure that is going to be incurred and it is put up before the Budget Committee for their kind approval. Once it is approved by the Budget Committee it is sent to the Governing Body for approval. Apart from the contingency expenditure, student fund revenue and utilization, emphasis is given for utilization of the development fund on infrastructure development. The state government pay the fees (through reimbursement) to all the eligible students admitted into the college. Thus, the receipts are very transparent and readily available in the public domain.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III)

Answer: 0

6.4.2.1 Total Grants received from non-government bodies, individuals, Philanthropers year wise during the last five years (INR in Lakhs)

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
0	0	0	0	0

File Description	Document
Details of Funds / Grants received from of the non-government bodies, individuals, Philanthropers during the last five years	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Answer:

SIET has got very effective strategies to monitor the efficient utilisation of financial resources. Financial budget pertaining to the functioning of the college for the upcoming academic year will be prepared in due consideration of the probable expenses incurred and incomes mobilised. The Management of the Institute ensures that expenses are incurred for the purpose of implementing institutional plans.

The budget is prepared every year well in advance after taking the due consideration of the requirements pertaining to every Department. Each Department prepares the budget based on the requirement such as equipment, computer as well as consumable required for next academic session.

The head of the organization puts up the budget in Governing Body meeting and after the discussion the necessary modifications and corrections are done and then the Governing Body recommends the budget for approval. The budget is reviewed by the management and approved after necessary changes.

Quotations are invited from companies and evaluated, comparative statements are prepared, suppliers are called for discussion and after comparing all the quotations from various suppliers, orders are placed. The accounts of the Institution are further subjected to internal and external audit. Any discrepancy in internal audit will be brought to the notice of the head of the organization. The payments is released after delivery of the respective goods it is done as per the terms and conditions mentioned in Purchase order

Mobilization of funds:

Mobilization of funds is a significant aspect in financial management of institution. Major income is obtained from tuition fees of students, which is not sufficient to meet all expenses of the institution. Hence, SIET strategizes following fund mobilisation methods:

- Tuition fee is collected as per the guidelines of state fee regularity authority.
- Funds are mobilized by renting the college cricket ground for conducting cricket leagues and matches.
- Food waste in the mess is sold to local pigsty and fund is being mobilized.
- Funds are generated by conducting various government recruitment exams in the college.

Optimal utilization of financial resources:

- Professional development activities.
- Research/ publication/ staff welfare schemes.
- Rain water harvesting, segregation of waste.
- Training programs/ Academic activities/ fests

In addition to these optimal utilisations of the allocated funds is implemented for the infrastructure, maintenance and other miscellaneous as mentioned below.

- Laboratory maintenance
- Purchase of licensed software
- Internet charges
- Laboratory Equipment & Laboratory Consumables
- Furniture & Fixtures
- Repair & maintenance
- Stationary
- Printing

Adequate funds are allocated for workshops, conferences, short term training programs, FDPs, Orientation programs etc. to enhance and ensure the quality initiative activities in the institution. Adequate funds are proposed and allocated for enhancement of the library facilities. Allocated funds are properly utilized for maintenance and development of the infrastructure. Proper monitoring of budget preparation and utilization is taken care of to avoid mismanagement of funds.

File Description	Document
Upload any additional information	View Document
Paste link for 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

Answer:

The Internal Quality Assurance Cell was started in the year 2014 to monitor the quality of teaching learning process provided by the institution in coordination with the stakeholders. An IQAC committee is formed and approved by the governing body to take care of Quality assurance strategies and processes. IQAC has contributed significantly to continually improve the infrastructure, enhance the faculty skills, and empower the students with advanced technologies to make them employable and encourage entrepreneurship. The Institute's existing policies on academic and administrative systems are in respect of the process of teaching-learning and evaluation system, academic performance, faculty recruitment and training/qualification enhancement, are initiatives of IQAC.

Best practices:

Two examples of best practices institutionalized as a result of IQAC initiatives are:

Practice-I

Title: Interpersonally Development skill through Department clubs under Scheme for Promoting Interests, Creativity and Ethics among Students [SPICES].

Objective

- Today effective teaching as well as analytical understanding is important for the students to respond to the challenges emerging in the society.

Practice - II

Title: Centre of Excellence (COE)

Centre of Excellence in skilling ecosystem is envisioned to be a one-stop resource Centre with state of art facilities and infrastructure, established/working in partnership with industry/internal and external domain experts under one roof to raise training standards, boost productivity, address emerging skill gaps and align training & research with Industry needs.

Internet of Technologies [IOT]

Objectives

- To create innovative applications and domain capability across verticals for the country's needs such as Smart City, Smart Health, Smart Manufacturing, Smart Agriculture, etc.

1. **Electronic Prototype Design and Development Facility**

Objectives:

- To provide sophisticated labs for the engineering colleges with sound infrastructure equipped with advanced circuit board design tools and to enhance the technical skills of students.

1. **Artificial Intelligence**

Objectives:

- To consolidate AI resources, learning and talent in one place.

1. **Building Information Modelling (BIM)**

Objectives of the Practice:

- To develop a precise virtual model of a building.

1. **Skill and Personality Development Centre (SPDC) for SC/ST students**

Objective:

- To create employability amongst the engineering graduates by imparting the required skills for sustained performance, success in career and make them industry prepared.

Campus Recruitment Training:

- Campus recruitment training is given to the students in order to improve their skill sets in reasoning, aptitude and group discussions. These classes are helpful for writing the placement exams and which is useful for thinking and development of students. The students develop confidence through Learned Knowledge which ensures them to face any kind of interviews for selection. These are very much useful for students to write placement exams, competitive and higher studies.

Faculty Development Programme (FDP):

It is one of the major initiatives of IQAC for improving the quality of the faculty in various aspects. Quality initiatives with regard to FDPs are conducted in order to strengthen faculty in

(1) Teaching Learning Process

(2) Research and Development

(3) Outcome based education

(4) Faculty Personality Development.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental

improvement in various activities

(For first cycle - Incremental improvements made for the preceding five years with regard to quality

For second and subsequent cycles - Incremental improvements made for the preceding five years with regard to quality and post accreditation quality initiatives   )

Answer:

The institution reviews its teaching-learning process, structures & methodologies of operations through Academic Departments. The IQAC is responsible for developing, coordinating and monitoring academic assessment activities to effect improvement in student learning.

The roles and responsibilities of the IQAC are mentioned below.

- Plan, monitor and control the academic functioning of all the Departments.
- Introduce innovation in Teaching, Learning and Evaluation practices.
- Advised for industry-oriented projects and internships, suggested other technical training activities related to enhancing the employability skills
- A constant review mechanism is done by IQAC in the college which guarantees the smooth functioning of the quality teaching-learning process.

Methodologies –

- A teaching-learning plan and a course schedule along with the academic calendar will be given to the faculty member well before the commencement of the semester. This is done under the guidance of the HOD.
- The class coordinator periodically reports to the HOD about the syllabus coverage and the number of classes taken by the faculty.
- Guest lecturers will be conducted for the subject who is difficult to understand.
- The individual course schedules, plans, and related information/ materials are issued to the students at the commencement of the semester.
- IQAC also ensures the Counselling given to slow learners and Parents meet of such students is done with their respective Mentor if required.

Outcome –

IQAC periodically ensures the attainment of learning outcomes of each course and program.

Two examples of institutional reviews and implementation of teaching-learning reforms initiated by the IQAC

1. **Course Files**

Course files or planning documents of every course are used to bring objectivity and strategize the course of teaching and learning for every topic. The Faculty go through the syllabus and ensure that all the students fulfil the pre-requisites of the course. Upon cross-checking pre-requisites the faculty starts their event schedule that they plan at the beginning of the year. A proper plan for each topic and its delivery is made by the Faculty. The mapping of the course outcome is done along with the program outcome. Course files have proven to be great guiding tools that provide the faculty direction and a sense of clarity while teaching.

ii) Evaluation-System with regard to IQAC reforms as given by Input Based Education to Outcome Based Education (OBE) with direct method i.e., teaching-learning process which includes Mid exams, lab internal, external and End semester (University examinations) and indirect methods using various assessment tools like stakeholders feedback etc.

The procedure of evaluation for OBE is as follows: Evaluation procedure for Outcome Based Education: the varied assessment methods used for the evaluation of CO's are as follows.

1. Internal (Mid) Examinations: Two Mid Examinations are conducted for the students in each semester as per the university prescribed norms. The Mid- exam questions are mapped to the defined Cos as per blooms taxonomy levels.

2. Assignment Questions: Two assignments are given in each course and questions are mapped to Cos as per blooms taxonomy levels.

3. Lab Examinations: Lab exam provides the sensible knowledge for college students. It consists of internal day-to-day evaluation, execution of programs and viva-voce. This is often helpful for college students to possess the sensible knowledge.

4. External Lab Examinations: external lab exam provides the sensible knowledge for college students. It consists of execution of program and external viva voce. This is often helpful for college students to possess the sensible knowledge.

5. End semester university examinations: The question paper for every course is given by the affiliating university. The marks scored by the students are given to assess the attainment level of the course. The Evaluation process is explained within the additional information.

The IQAC conduct periodical meetings with the departments, Council of the Heads, the principal, throughout the academic year in the presence of the IQAC coordinator. College has various committees for each and every department. The IQAC conducts an academic review of all departments collecting information on academic activities, such as completion of study programs, unit tests, assignments, seminars, group discussion, quiz and other activities.

1. **Students Feedback on Faculty, Teaching-Learning Process & Evaluation**

There are two different forms of feedback, verbal feedback, and summative feedback. Verbal feedback is acknowledged given at the beginning and/or throughout the course, used to instruct your teaching and allow you to make appropriate alterations along the way. A "continuous Improvement philosophy" is recommended with verbal feedback. Students' feedback significantly showcases the actual quality of the teaching-learning process. The IQAC has brought several changes in the Students feedback process like

- No faculty members will be involved in the students' feedback process.
- Only students having attendance above 75% will be allowed to give feedback on faculty, teaching earning process & Evaluation.

Minimum 60% students of each department will be present at the time of feedback.

File Description	Document
Upload any additional information	View Document
Paste link for additional information	View Document

6.5.3 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 intitiatives with other institution(s)*
3. *Participation in NIRF*
4. *any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)*

Answer: A. All of the above

File Description	Document

Upload e-copies of the accreditations and certifications	[View Document](#)
Upload details of Quality assurance initiatives of the institution	[View Document](#)
Upload any additional information	[View Document](#)
Paste web link of Annual reports of Institution	[View Document](#)

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 during the last five years.

Answer:

Measures initiated by SIET for providing a safe space with gender sensitivity and empowering education for students is worth mentioning. SIET has set gender equity as one of its goal. The following are the gender equity promotion programs organized by SIET in the last five years:

1. **Gender Sensitization Lab:**
   The pedagogy of gender sensitization course is not just limited to the classroom but is an activity based learning. The aim of this course is to increase awareness about contemporary and historical experiences of women and the trials faced by them pertaining to their gender, class and creed.

2. **Self defense and Karate Program:**
   Self-defense is an art of overcoming one's fears and turning them to strengthen themselves to enable one to be confident about one's physical and mental ability to defend themselves in dire consequences. To attain this, every year SIET is conducting Karate workshops for its students.

3. **SHE TEAM:**
   A "SHE TEAM" has been introduced by Telangana State government with a motto to provide safety and security to women. "SHE TEAM" educates the girls about issues like cyber-crime, eve teasing, sexual harassment, etc. "SHE TEAM" has conducted sessions for the student of SIET to bring awareness among them and has highlighted the need for self-defense in girls. **SHE TEAM Ibrahimpatnam help-line no.: 7901099260.**

4. **Yoga:**
   SIET celebrates "The International Day of Yoga" to promote awareness among the girl students of the many benefits for building stable and focused mind, by practicing yoga. Yoga sessions at SIET are organized by the Peace of Society: Guardian of the Mind, Body and Spirit.

5. **Sports:**
   SIET encourages its women faculty and the girl students to take up sports by emphasizing on the fact that, the sports are an integral part of life and its importance for one's physical well being. Therefore, SIET conducts common sports to remove the barrier between the genders.

6. **Rangoli and Mehendi Competitions:**
   Rangoli is a traditional art form that brightens up an occasion and is believed to bring good luck. SIET conducts Rangoli and Mehendi competition every year to enhance creativity of girl students. SIET also conducts Mehendi competitions during Women's Day celebrations.

7. **Women Welfare committee:**
   The objective of women welfare committee of SIET is to improve the social and economical status of women in the society. The committee actively addresses women grievances. Women Welfare committee has organised seminars on Human trafficking, Violence at home, Human rights and laws, Health and hygiene, Self development, Bhatukamma celebrations, etc.

8. **International Women's Day:**
   SIET celebrates International **Women's day** to empower Women with motivational talk on self

confidence, decision making, and their right to influence social changes for themselves and others.

9. **Facilities:**
All the required facilities like girls/boys common rooms, separate on campus hostels, Day care centre, Counselling centre, CCTV surveillance, etc are provided.

File Description	Document
Link for specific facilities provided for women in terms of: a. Safety and security b. Counselling c. Common Rooms d. Day care center for young children e. Any other relevant information	View Document
Link for annual gender sensitization action plan	View Document

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation measures

1. *Solar energy*
2. *Biogas plant*
3. *Wheeling to the Grid*
4. *Sensor-based energy conservation*
5. *Use of LED bulbs/ power efficient equipment*

Answer: A. 4 or All of the above

File Description	Document
Geotagged Photographs	View Document
Any other relevant information	View Document
Any other relevant information	View Document

7.1.3 Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)

- *Solid waste management*
- *Liquid waste management*
- *Biomedical waste management*
- *E-waste management*
- *Waste recycling system*
- *Hazardous chemicals and radioactive waste management*

Answer:

Solid waste management:-

In order to maintain a clean environment in the SIET campus, garbage bins are provided throughout the Institute premises at every nook and corner. Each set of garbage bin consists of two different coloured bins (Blue & Green). Blue trash bins are used for collection of dry waste like paper wrappers, paper waste, glass bottles, etc.Green trash bins are used to collect wet waste like vegetables, food waste and other degradable waste from the canteen. The organic waste from the canteen is converted into methane gas (cooking gas) by anaerobic fermentation and the by-product manure is used as compost to promote sustainable agriculture.The accumulated dry waste material from the blue trash bins is disposed daily from the campus by theIbrahimpatnam municipality vehicle. Metal scrap, wood waste and other material collected from the engineering workshop are disposed periodically by selling it to outside agencies.

Liquid waste management:-

To minimize the wastage of water in the campus, water drip pipe system/sprinklers are adopted wherever necessary. The waste water from R.O water plant is used for watering gardens / lawns in the college campus. The waste water from the washrooms, kitchen and labs flow through the sewage pipelines and properly disposed.A plumber regularly checks the faucets and water pipe lines for leaking/clogging and fixes them immediately.

E-waste management:-

The Institute has signed an MOU with a private agency, M/s Urban Robex Private Limitedfor the proper disposal of the e-waste. The e-waste generated from electronic and computer labs iscollected and sent to the store room, from there it is picked-up by the agency.Some of the computer peripherals are used in the IT workshop for hardware training.

Biomedical waste management:-

Biomedical waste from the First-Aid clinic and the sanitary waste from the wash rooms are disposed-off by the sanitary napkin incineratorin an environmental friendly by burning and converting it into ash.

Waste Recycling System:-

Recyclable waste like paper waste, old news papers, carton boxes, used record books, etc., are disposed through an outside agency, M/S Urban Rebox Private Limited, Hyderabad. They sort out thewaste into different categories like baling, bagging and lifted from the college.

Hazardous chemicals and radioactive waste management:-

Hazardous chemical spills in the chemistry lab and the environmental engineering lab are disposed by chemical spill kit. Acids and chemical mixture waste generated are diluted, neutralised before drained into sink. Similarly, Mercury spillin Civil Engineering Laboratory is collected by using Mercury spill kitand purified for reuse. Theuse of radioactive chemicals/materials is not prescribed in any of the experiments. Therefore, not used in SIET labs.

File Description	Document
Any other relevant information	View Document
Link for Relevant documents like agreements/MoUs with Government and other approved agencies	View Document
Link for Geotagged photographs of the facilities	View Document

7.1.4 Water conservation facilities available in the Institution:

1. *Rain water harvesting*
2. *Borewell /Open well recharge*
3. *Construction of tanks and bunds*
4. *Waste water recycling*
5. *Maintenance of water bodies and distribution system in the campus*

Answer: A. Any 4 or all of the above

File Description	Document
Geotagged photographs / videos of the facilities	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.5 Green campus initiatives include:

1. *Restricted entry of automobiles*
2. *Use of Bicycles/ Battery powered vehicles*
3. *Pedestrian Friendly pathways*
4. *Ban on use of Plastic*
5. *landscaping with trees and plants*

Answer: A. Any 4 or All of the above

File Description	Document
Various policy documents / decisions circulated for implementation	View Document
Geotagged photos / videos of the facilities	View Document
Any other relevant documents	View Document
Link for any other relevant information	View Document

7.1.6 Quality audits on environment and energy are regularly undertaken by the Institution and any awards received for such green campus initiatives:

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

Answer: A. Any 4 or all of the above

File Description	Document
Reports on environment and energy audits submitted by the auditing agency	View Document
Certification by the auditing agency	View Document
Certificates of the awards received	View Document
Any other relevant information	View Document
Link for any other relevant information	View Document

7.1.7 The Institution has disabled-friendly, barrier free environment

1. *Built environment with ramps/lifts for easy access to classrooms.*
2. *Divyangjan friendly washrooms*
3. *Signage including tactile path, lights, display boards and signposts*
4. *Assistive technology and facilities for Divyangjan accessible website, screen-reading software, mechanized equipment*

5. Provision for enquiry and information : Human assistance, reader, scribe, soft copies of reading material, screen reading

Answer: A. Any 4 or all of the above

File Description	Document
Policy documents and information brochures on the support to be provided	[View Document](#)
Geotagged photographs / videos of the facilities	[View Document](#)
Details of the Software procured for providing the assistance	[View Document](#)
Any other relevant information	[View Document](#)
Link for any other relevant information	[View Document](#)

7.1.8 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words).

Answer:

The Institute endeavors towards maintaining an inclusive atmosphere for all stakeholders. As our students are from diverse socio economic spectrums and regions of India, we strive towards academic excellence as well as promoting societal, cultural, linguistic, regional consciousness and other diversities among the students through various activities as mentioned below:

Cultural Diversity:

The College has established a very good environment for the students' behavior and personality development. Students are encouraged to participate in cultural clubs and competitions like singing, dancing, drama & film, videography, editing, art, music, fashion contest, rangoli, poster making in order to acquaint them to diverse cultures.

Regional Diversity initiatives:

SIET facilitates celebration of regional cultural festivals in order to emphasize the importance of understanding and respecting different cultures. To put it into practice, SIET is providing cuisines from Southern and Northern regions in its canteen.

Linguistic Diversity Initiatives:

SIET has initiated diverse linguistic programs such as

1. Spoken English classes for the students with poor language skills.
2. Interaction program by various clubs, for the students who speak vernacular languages. There is always a huge crowd turn out at these programs.

In SIET **t**he students and the staff from different religions, regions and castes work with complete communal harmony.Students from low **socio-economic** spectrum and divyang are given hostel fee concession in every academic year.Orientation program to newly admitted students is conducted in the college every year to orient about various facilities, activities and support provided by the college for the students coming from different regions, cultures and linguistic diversities.SIET strongly believes in the service and liberation of all people; irrespective of religion, caste, gender, language and beliefs.Concerns are factored in the welfare activities for divyang students like providing barrier free facilities and assigning staff for assistance and providing scribes during examination as per university norms.

Blood donation camps are conducted in the campus by theSocial Awareness Club volunteers of the college in collaboration with voluntary organizations like Lions club of Hyderabad, etc. Students are educated about the importance of blood donation in terms of health, humanity and social responsibility.International women's day is celebrated on 8th March every year to applaud their achievements and appreciate their contribution and commitment for the betterment of the society. This celebration also accelerates thepromotion of gender equality.The above said programs are carried out by the college to promote religio-cultural, regional, linguistic, communal,socio-economic and other activities help the staff and the students in the community orientation, communalharmony, national development with diversity and integrity.

File Description	Document
Link for supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View Document
Link for any other relevant information	View Document

7.1.9 Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens (within 500 words).

Answer:

In today's scenario, Human Values, rights, duties and responsibilities of the citizens are the perennial streams which alone can stipulate sustenance for nurturing the societal values, moral conduct and creating awareness among the youth and professionals. SIET takes pride in the fact that, apart from laying a sound academic foundation for the student community; the college is constantly working with an aim to mould them as responsible and dutiful citizens of the country. Keeping this in mind, the institute is imparting professional education by inculcating a feeling of oneness and patriotism among the student community through various practices and programs as followed:

As a part of our regular curriculum, SIET also conducts classes on "Constitution of India" and mock parliament sessions around issues of national relevance like corruption and National Education Policy to create awareness about social, political and economic perspectives of the Democratic India.

Thevalue-based education has been repeatedly highlighted by various commissions, prominent personalities and expert committees like Dr. Radha Krishnan, Dr. Kothari, UNESCO declaring it as a service to the society. The value-based education mouldsthe students asrefined individuals, who happen to be competent, committed, and conduct themselves in way appropriate for the development of humane Indian society

SIET is committed to educating the students as constitutionally aware citizens, sensitized to their Fundamental Rights and Duties. Various programs and activities are organised both by departments and student societies.

SIET has an active National Service Scheme (NSS) unit and UBA, where students engage themselves in community service programs proactively. SIET also has Women's Study Centre and clubs such as Say No to Drugs club, Fitness Club, Eco Club etc.

National Unity Day is observed with a pledge to celebrate our glorious history of national integration.In accordance with Swacchh bharat abhiyan, SIET organises cleanliness drives like Swachh-Siddhartha.Academic discussions at SIET regularly highlight the salience of national unity and social harmony.

As part of social responsibility, SIET has conducted a 5K run marathon"National Cancer Awareness Day" to join fight against cancer. The college has conducted a number of programs through the above

functionaries about the national identities and symbols, environment consciousness, socially responsible and dutiful citizenship, etc.

The College also conducts several Government endorsed programmes like the Swach Bharat Abhiyan campaign, Atma-NirbharAbhiyan, Azaadi 70 years of celebration, Mock Parliament day, Constitution day, and World Environment day, etc. The college encourages students to participate enthusiastically and proactively in all these activities.

Our faculty participated in "Universal Human Value Program" conducted by AICTE.As part of the induction programme, SIET has also conducted "Universal Human Value Classes" with certified faculty.

File Description	Document
Link for details of activities that inculcate values necessary to render students in to responsible citizens	View Document
Link for any other relevant information	View Document

7.1.10 The Institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic programmes in this regard.

1. *The Code of Conduct is displayed on the website*
2. *There is a committee to monitor adherence to the Code of Conduct*
3. *Institution organizes professional ethics programmes for students, teachers, administrators and other staff*
4. *Annual awareness programmes on Code of Conduct are organized*

Answer: A. All of the above

File Description	Document
Details of the monitoring committee composition and minutes of the committee meeting number of programmes organized reports on the various programs etc in support of the claims	View Document
Code of ethics policy document	View Document
Any other relevant information	View Document

7.1.11 Institution celebrates / organizes national and international commemorative days, events and festivals (within 500 words).

Answer:

Commemorating days, events and festivals of national importance, honors the great heritage of India.

Recognizing the momentous contributions of historical figures to freedom & justice, likewise, inspires the youth. SIET observes several nationally and internationally significant occasions to educate our students about the history, traditions and practices of our nation in an engaging and participatory ways.

SIET celebrates the Independence Day by commemorating the sacrifice of our freedom fighters and our national leaders. Students, faculty and staff join in the celebrations, which commence with flag hosting followed by the National Anthem. Cultural programs are conducted carefully curated by the Indian Cultural Society.

The Republic Day is celebrated on 26th Jan'. On this Red-Letter Day, the Indian National Congress released Purnaswaraj, the declaration of India's Independence from the British colonial rule. SIET

celebrates Republic Day with significance to the right spirit of Independent and individual India and by spreads awareness of our duties towards our nation and our constitutional rights.

SIET celebrates Telangana State Formation day on 4th June to commemorate the sacrifices and challenges faced by the regional leaders and the student community in their agitation for a separate state.

Sardar Vallabhai Patel's birthday on 31st October is commemorated as National Unity Day. National integration activities like Run for Unity and Unity Pledge are organized to honour the 'Iron Man of India'.

Swami Vivekananda birthday on 12th January is observed as National Youth Day. On that day, Peace Society at SIET organizes various motivational events depicting the life and teachings of Swami Vivekananda.

In December 2014, the United Nations General Assembly Resolution adopted 21st June as International Yoga Day. SIET celebrates this day by acknowledging the transnational role of Yoga as an ancient Indian knowledge system and in promoting physical and mental health.

SIET celebrates International Women's Day on 8th March of every year by conducting seminars and discussions for the students and faculty in honour to the historical and contemporary effort of women for empowerment. SIET also celebrates National Voter's Day On 25th January, NSS Day on 24th Sep' and World Environment Day on 5th June.

SIET organizes events on national festivals like National Science day, Holi, Dusheera, Diwali, etc. and anniversaries of great Indian personalities like National science day on 28th Feb, to commemorate India's great physicist Sir C. V. Raman, Teacher's Day is celebrated on 5th Sep' to commemorate the birth anniversary of Dr. Sarvapalli Radha Krishnan India's first vice-president and on 15th September celebrates Engineer's day to commemorate the birth anniversary of Sir M. Visvesvaraya. Dr. B. R. Ambedkar birthday is celebrated on 14thApril.

Gandhi Jayanthi on 2ndOctober, the birthday of Mahatma Gandhi, is celebrated by remembering his values of Peace and Nonviolence. Newly formed SIET club has celebrated Gandhi Jayanthi by conducting activities such as Poster Presentation, etc.

In addition to the above, various festivals like Onam, Makar Sankranthi, Christmas, Ramzan and Pongal are also celebrated with great fanfare.

File Description	Document
Link for any other relevant information	View Document
Link for Geotagged photographs of some of the events	View Document
Link for Annual report of the celebrations and commemorative events for the last five years	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.

Answer:

Practice-I:

Title: Interpersonally Development skill through Department clubs under "SCHEME FOR PROMOTING   INTERESTS, CREATIVITY AND ETHICS AMONG STUDENTS [SPICES])"

Objective of the Practice:

- To respond to the challenges emerging in the society in today's effective teaching as well as analytical understanding is required for the students.
- To make the teaching interesting and useful to the students as changes are inevitable, the teaching must be "**Learning by Doing**" and there by inculcating the need of the research.
- To fix the problems that arises in the changing global perspectives for building the competencies in trending technologies helpful to the students.
- For Nurturing the Professional skills pertaining to creativity / innovation along with ethical values and human touch.
- For fostering the students to come up with innovative working models through participation in various competitions at the interests of the students.

The context:

- SIET believes that professional mindset, competency in academics and interest in research are required to the students for successful transformation as technocrat.
- Students must have interest in learning new emerging technologies and understand the trends of the industry. Hence, there is a need for collaboration between Industry and the Institute.
- There must be formations of professional hobby clubs which continuously engage in identifying the inherent ideas of the students which are essential in the changing times.
- The student who is admitted into B. Tech programs, are from various districts & rural areas .The students need holistic and encouragement towards subjects. Hence, the analytical method of teaching is introduced.
- In addition to the Technical subjects, other basic back ground courses like Professional ethics, universal Human values are also required to the students to overcome the difficult situations in the society. Hence, practical oriented teaching by adopting MoUs with reputed organizations is introduced.

The practice:

Various clubs like XFIC, FETCH, VIDYUTH TARANG, etc., from the departments are actively encouraging the students through this "*SCHEME* FOR PROMOTINGINTERESTS, CREATIVITY AND ETHICS AMONG STUDENTS [SPICES]" as mentioned below

- An ecosystem is set up in association with the hobby clubs to foster the spirit of creativity and innovations, periodical programs among the students in the clubs are encouraging through group activities.
- SIDDHARTHA Institute of Engineering and Technology extends support in procurement of various technical components, e-content sources, designing and developing working prototypes, demonstration of working devices, executing the consultant projects, etc.
- The college management emphasizes the all-round development of the students with respect to technical knowledge, professional ethics & universal human values to bring credibility and community trust among the students. The faculty is well trained through Faculty Development Programs conducted by AICTE and other Institutions.
- Director (R&D) and Dean (R&D) in association with the HODs/concerned coordinators of the department form a committee to analyze and recommend the proposals and activities drawn from the students to encourage them with seed capital to build the working models and prototypes. An innovation center with all working models is established where the prototypes developed by the students are displayed.
- The Institute is continuously striving hard to get MOUs with reputed organizations which will provide hands on practical exposure through internships
- To create holistic atmosphere /culture /encouragement among the students, various group activities and competitive programs like Traditional day, Rangoli competitions &Hackthon programs are conducted. Prizes and the merit certificates are distributed under "SPICES".

- Group discussions, Quiz competitions on Engineer's day and Self Government day are conducted through VIDYUTH TARANG, XFIC and FETCH initiatives every year in the Institution.

Evidence of Success:

- **Sarang -2022** Program conducted on March 5th 2022. Singing, dancing and miscellaneous programs are conducted to encourage the extra-curricular activities and skills.
- National science day is conducted under the department clubs, activities like Quiz competitions, Paper presentations, etc., are organized every year.
- A Guest lecture on Professional Practice Law and Ethics was conducted for B. Tech III, IV year Students on 29th Jan 2022 in an online mode with coordination from department clubs.
- Self-defense Program conducted in the college premises to train the female students in self-defense.
- Workshop on Entrepreneurship skills program is conducted in an online mode.
- Regular CRT programs conducted for the III & IV year students in addition to the inter personality development skills programs, to enhance the employability opportunities.
- From past five years there is a gradual increase in placements, competitive examination results and pursuing higher education for our students
-

Problems encountered and resources required:

- Because of unforeseen COVID-19 pandemic situation from past three academic years, it was difficult to maintain proper academic calendar to be followed as per schedule. It was a tiring task to reach out the students from rural background due to lack of internet connectivity at remote places.
- The state/ central governments should take an initiative in introducing novel schemes like providing uninterrupted internet facility at rural and remote places for the benefit of the student community.

Practice-II:

Title: Centers of Excellence (CoE)

1. *Internet of Things [IoT]*

Objectives of the Practice:

- To create innovative applications and domain capability for the country's need such as Smart City, Smart Health, Smart Manufacturing, Smart Agriculture, etc. To build Industry capable talent, start-ups and entrepreneurial ecosystem through Internet of Things [IoT].
- To reduce cost in research and development by providing neutral and interoperable, multi-technology stack laboratory facilities.
- To reduce import dependency on IoT components and promote Make in India.

The Context:

- CoE for IoT is sanctioned by AICTE under the scheme Modernization and Removal of Obsolescence [MODROBS] in the academic year 2019-20.
- CoE is a one-stop resource centre with state- of-art facilities. Its primary aim is to train the students in par with the industry needs.

- It is required to gain knowledge to undergo Industry-oriented capacity building so that students can walk in pace with advanced technology.

The Practice:

- IoT lab is sponsored by AICTE and was inaugurated by the honorable chief guest Dr. Amit ViswasraoSalunkhe, RO- South-Central, AICTE.
- Advanced and sophisticated component kits procured for the Centre of Excellence lab like Raspberry kits, Sensor based Home automation system components, and Android Programming modules helped the students to develop the temperature recognition systems and the fire alarming systems.
- A one week FDP was organized for the benefit of the faculty from 14th Nov- 19th Nov 2021 by Dr. M. Manoj.

Evidence of Success:

- To print temperature and humidity readings using an interface O LED with Raspberry Pi.
- Program to retrieve temperature and humidity data from think speak cloud
- Written a program to run on motor when push button is pressed
- Written a program to turn on LED when push button pressed or at sensor
- Students have developed projects for Hackthon 2021.
- Face Recognition Using Raspberry Pi (Computer Vision)

Problems encountered and resources required:

- During COVID-19 pandemic the institute was unable to conduct more activities in online mode and conducting workshops under CoE for IoT became a difficult task.
- However, after the pandemic ended, the institute is conducting the corresponding workshops on IoT domain which is helpful for the students in strengthening their knowledge.

1. *Electronic Prototype Design and Development Facility*

Objectives of the Practice:

- To provide sophisticated labs for the engineering colleges with sound infrastructure equipped with advanced circuit board design tools and to enhance the technical skills of students.
- To provide an environment which enables to transform a design to a Prototype and then to a product.
- To create an interactive platform for enhanced learning, training capabilities and skills of students which bridge the gap between industries and educational institutions.

The Context:

- Being one of the pioneers in the printed circuit board designing and fabrication EPDDF is always striving to cope up with the ever advancing pace of technology.

The Practice:

- This CoE of EPDDF is sponsored by AICTE under MODROB Scheme.
- EPDDF, the CoE at SIET, Ibrahimpatnam, is recently upgraded with latest equipment to meet the needs of research & development activities of SIET, other organizations and industries.
- EPDDF lab supports up to eight layers PCB fabrication, stencil preparation and assembly of both PTH & SMD components with in-house PCB Layout Design by our well experienced trainers.

Evidence of Success:

- The Department of Electronics and communications Engineering of Siddhartha Institute of Engineering and Technology has inaugurated the **CoE in Electronic Prototype Design and Development Facility** is sponsored by **AICTE Under MODROB** Scheme is inaugurated on 14th February 2022

Problems encountered:

- Due to online mode in COVID-19 pandemic situations unable to conduct more activities.

1. *Artificial Intelligence*

Objectives of the Practice:

- To consolidate AI resources, learning and talent in one place.
- To create and implement a unified AI vision and strategy for the business.
- To speed up AI led innovation and identify new revenue opportunities.
- To scale data science efforts and make AI accessible to every function within the institute.

The Context:

- SIET is in the forefront to start a CoE by establishing AI Lab.
- The lab was established in the month of October, 2019 with inputs received from Academia, eminent personalities in Industry, experienced experts of the field to give required confidence for the students who are undertaking this course and make them able to cater to the needs of the industry.
- Machine Learning Engineer, Robotic Scientist, Data Scientist, Research Scientist, Business Intelligence Developer are the profiles for students who excel in this field.

The Practice:

- Identifying innovative research directions in AI, Machine Learning and Big Data analytics.
- Designing and implementing distributed systems for information exploitation, collaboration and decision making.
- Data intensive agent based tools providing quality education and practical knowledge to the students and the faculty.
- Assisting in the development of partnerships with the industry regarding internships, summer jobs, publications and the students' placements.

Evidence of Success:

- A consultancy project is completed from CORP CROP worth 2, 50,000 on Ai surveleyance

Problems encountered:

- Due to online mode in COVID-19 pandemic situations unable to conduct more activities.

1. *Building Information Modeling (BIM)*

Objectives of the Practice:

- To develop a precise virtual model of a building.
- To allow a better integrated design and construction process, resulting in higher quality buildings at cheaper cost and short durations.
- To improve project performance and outcomes.
- To assist the construction management team in collecting and communicating data and information from various disciplines.

The Context:

- The CoE in the Skilling Ecosystem's mission is to establish a one-stop resource centre with cutting-edge facilities and infrastructure.
- It is one of the most significant technological advancement in the use of Building Information Modeling (BIM) in building design, construction, and operation.
- As a result, the CoE's primary focus is on incorporating BIM technological, management, and practical skills into training and up-skilling programs as well as updating the existing training programs.

The Practice:

This CoE in Building Information Modeling (BIM) is started in collaboration with Global Science Technology and Management (GSTM), Singapore and is inaugurated on 5thOctober 2021 in presence of management and R&D officials of the Institute.

- The CoE is an advanced laboratory to enhance technical skills of the Faculty and students.
- **In fact, it has motivated SIET to extend its services to the students and the faculty by providing them with the latest and most sophisticated equipment to develop various BIM applications.**

Evidence of Success:

- The Department of Civil Engineering of SIET has inaugurated the CoE in Building Information Modeling (BIM) in collaboration with Global Science Technology and Management (GSTM), Singapore on 5thOctober 2021.
- In pursuit of excellence and making students with hands-on expertise, SIET is taking up the consultancy projects in association with various technical organizations / agencies. The details are as follows:

- Advances in geo synthetics materials, application for soil reinforcement and environmental projection works with an estimation of rupees 2, 30, 000/-.
- A successful study of the correlation between soil-rock sounding and column penetration test data with an estimation of rupees 2, 50,000/- successfully.

Problems encountered and resources required:

- Due to COVID-19 pandemic the institute was unable to conduct activities as scheduled.
- It was a tiring task to reach out the students from rural background due to lack of internet connectivity at remote places.

5) *Skill and Personality Development Centre (SPDC) for SC/ST students*

Objective:

- To create employability amongst the engineering graduates by imparting the required skills for sustained performance, success in career and make them industry prepared.

- To bridge the gap between the Industry and academia by enhancing the competency of the engineering graduates through necessary training in soft skills, interpersonal skills, intra-personal skills.
- To improve communication skills, attitude, behavior, antiquate, time management, goal setting, team work, leader ship skills and career planning ethics.
- To build up the leadership qualities among students through consistent and efficient mentoring of the students (learning by doing)

The Context:

- All the departments formed their respective student associations / clubs. These associations aim to conduct technical events on current trends in technology in order to improve the technical skills of the students.
- The institute organizes a conference and paper presentation contest "SIDDHAHASTHA " every year as an Inter-college student interface providing a platform to exchange ideas and to share and gain knowledge.
- Working models exhibition is organized by the Institute, where the models developed by the students are exhibited and encouraged by rewarding the best ones.
- The college is organizing various co-curricular and extra-curricular activities which aim at encouraging student participation in various activities for stress free atmosphere.

The Practice:

- To develop industrial perspective of the students SPDC has designed training modules to impart technical, logical, analytical, behavioral and managerial skills in every student.
- Apart from the regular academics each student is trained for more than 200 hours in the semester, by including the CRT programs in the time table.
- SPDC organizes industrial visits pertaining to various disciplines of the students for the right exposure.
- SPDC assigns modules to the students through various online testing methodologies so that the right set of students is channelized towards the right profile.

Evidence of Success:

- By means of this cell minority student especially SC/ST students benefitted a lot especially in upgrading their communication skills and skill sets.
- Inter personality development skills of the minority students got enhanced which in turn reflected in their placements, higher education and competitive examinations.

Problems encountered and resources required:

- Because of the unforeseen pandemic situation from past two academic years it was difficult to maintain proper academic calendar to be followed in offline mode of classes. Online classes schedules issued by the University was not supported the practices.

It is highly hectic task to collaborate rural and village resident's students.

File Description	Document
Link for Best practices in the Institutional web site	View Document
Link for 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

Answer:

Vision of Institution:

To be a pioneer Institute and leader in engineering education whose primary concern would be the development of the human race and betterment of society to their knowledge, technological understanding and the spirit of progress.

Siddhartha Institute of Engineering & Technology has established a faculty development cell viz., "**Centre for Engineering Technological Education Development" (CETED)** to impart innovation in teaching methodology & learning.The cell is formed with the senior faculty from different departments under chairmanship of the Principal. Their details are as follows:

Sl.No	Name	Designation
1	Dr.V.V.V.S. Murthy	Professor (Civil) and Dean (R&D)
2	Dr. S. K. Bikshapathy	Professor, EEE department.
3	Prof. S. L. Narsimha Reddy	HOD (Mechanical)
4	Dr. D. Subbarao	Vice Principal
5	Dr. R. Kavitha	Professor, CSE department

The CETED members work together in organizing and strengthening of teaching methodology. The CETED has initiated various capacity building & teaching methodologies. Improvement program focuses on organizing faculty development programs on various topics to support the vision of the Institution, pedagogical approaches among the faculty and to refresh the classroom teaching techniques. Different categories of faculty development programs and workshops are organized in this Institution as detailed below:

Faculty Development Program before Semester Starting:

At the beginning of the semester, subject oriented faculty development programs are conducted for the faculty along with mentoring of the student and ethical practices in the following areas:

- Bloom's Taxonomy concept to sensitize faculty on the course objectives.
- Student related learning programs are intended to make the faculty aware of active methods of learning, various learning styles and classroom teaching techniques.
- Technology-Enhanced Learning in the classroom teaching by integrating technology by using ICT tools.
- Outcome-Based Education on program-specific outcomes (PSOs), program outcomes (POs) and mapping them to the course outcomes (COs).

Faculty Development Programs conducted in the middle of the semester:

The IQAC also initiates various faculty development programs through CETED to improve the teaching skills, teaching and learning process, research methodologies, paper writing skill for the faculty. This initiative was aimed to improve students' performance in their course to enable to take active role in the classrooms. Periodically workshops are conducted on the following topics:

- Innovative Teaching Pedagogy & Smart Class Rooms for delivering the concepts using virtual from various sources.
- Online teaching by the faculty took swift transition from class room to online teaching by using platforms like Microsoft Teams, Google Meet, Google classroom, ZOOM, CISCO WEB-EX and YouTube.
- Integrated courses by virtual labs apart from regular laboratory tool for enhancing their skills beyond the curriculum by the all subject and lab faulty.
- To conduct the quiz test and assignment by using Google forms.
- Massive Open Online Courses like NPTEL, SWAYAM for enhancing the subject and encourage the faculty to get refreshed.
- 'Microsoft Teams' is used to facilitate and manage online classes, assignments, and evaluation without using paper.
- To conduct ability assessment test online/offline mode and identify the students' analytical skills and technical skills.

Faculty Development Program throughprofessional bodies:

This Institute is a member of various professional bodies like ISTE, IETE, CSI, IAENG, IGBC, etc. The SIET also organised Faculty Development Programs through these professional bodies on Effective Teaching Methodology and classroom teaching techniques. Dr.Padmasai, secretary ISTE of Telangana state was present in the ISTE faculty development program on 28th&29th June 2019 and distributed the participation certificates to all the participants. The program was published in ISTE news of June 2019 edition.

Special Faculty Development Program on Awareness of National Educational Policy (NEP-2020):

As per the vision of NEP-2020, a good educational Institution is one in which every student feels cared, experience a wide range of learning and offers good infrastructure and conductive to learning are available to all students. To enlighten the faculty and for the idea to reach the students, SIET is conducting awareness programmes on NEP-2020. During the pandemic situation the SIET has conducted these programs in online and offline mode, in-turn faculty shared with students about the benefits of NEP-2020. Following are the details of FDPs conducted in the last one year:

- SIET arranged an Online Faculty development Programme (FDP) on 23-05-2021, during pandemic situation on NEP-2020 in which eminent speakers viz. **Prof. SaiKumar**,Chairman of Computer Society of India, and member of PM's Steel Trophy have delivered inspiring lecture on NEP-2020.
- Three days Faculty Development Programme on NEP-2020 has been organised in the institute from 23-03-2022 to 25-03-2022. Senior professors have delivered the lecture on NEP-2020. Faculty from other colleges have also participated in this FDP.

Faculty Development Program on"Experimental Learning for students":

- The Institute offers FDP on "experimental learning for students" with practical sessions in the laboratory to understand the technical concept.
- Faculty are involved in student's internships through MOUs with reputed Industries and organizations.
- Industrial study visits & Field visits are organized by the faculty to expose to the current technologies and to provide an opportunity to learn through practical interaction with the Industry Technical staff.
- Faculty are involved in Industry driven competitionsin order to encouragethe talented students to participate in competitions & Hackathons to showcase their creativity.
- FDPs are conducted to acquaint the faculty with E-Learning.
- FDPs are conducted to create awareness among the faculty on how to conduct group discussions, debates and quiz test and encourage the students to participate in order to improve their communication skills and leadership qualities.
- Faculty are trained on latest trends and innovative technologies by through workshops, seminars and guest lecturers from Industries.

Thus, Centre for Engineering Technological Education development in SIET is supporting the process of improving teaching methodologies with various activities through FDPs to meet the vision of the Institution.

File Description	Document
Link for appropriate web in the Institutional website	[View Document](#)
Link for any other relevant information	[View Document](#)

Extended Profile

Program

Number of courses offered by the Institution across all programs during the last five years

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
441	391	398	404	420

File Description	Document
Institutional data prescribed format	View Document

Number of programs offered year-wise for last five years

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
10	8	8	12	12

Students

Number of students year-wise during last five years

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
2282	1988	1865	1977	2502

File Description	Document
Institutional data in prescribed format	View Document

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

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
461	383	403	363	475

File Description	Document
Institutional data in prescribed format	View Document

Number of outgoing / final year students year-wise during last five years

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
420	498	388	497	581

File Description	Document
Institutional data in prescribed format	View Document

Teachers

Number of full time teachers year-wise during the last five years

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
204	212	227	239	231

File Description	Document
Institutional data in prescribed format	View Document

Number of sanctioned posts year-wise during last five years

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
204	212	227	239	231

File Description	Document
Institutional data in prescribed format	View Document

Institution

Total number of classrooms and seminar halls

Answer: 45

Total Expenditure excluding salary year-wise during last five years (INR in Lakhs)

Answer:

2020-21	2019-20	2018-19	2017-18	2016-17
355.18174	361.27414	494.40729	539.52312	1079.92831

Number of Computers

Answer: 770

Conclusion

Additional Information :

- The Institute has sprawling green campus spread in 13 acres to meet the requirements of its students and the faculty as well in all the departments. It has also good number of supporting staff for the smooth functioning of the administration
- The institution has good governance practices inculcated among students through the excellent Teaching-Learning process along with innovative research culture.
- The Institute has good infrastructure with advanced and updated laboratories and Class Rooms.
- It has well qualified and experienced faculty drawn from premium Institutions along with efficient supporting staff to have smooth administration.
- The campus is situated in the suburban of Hyderabad city with pollution free environment, well connected to Hyderabad.
- Exclusive hostels for Boys and Girls within the premises make them to feel home away from home.
- SIET also provides scholarships to the meritorious and economically backward students to fulfill their hopes and aspirations.
- Some of the teaching faculty members are active in upgrading their expertise and done the online certification courses successfully in SWAYAM courses through the NPTEL

- Our students have participated through S-Hub in the Start up Cell of the JNTUH-CEH and won First Prize in HACKATHON-2019 under Project Model Contest.
- The Telangana State Government has initiated the "Haritha Haram" and we have been doing the Plantation Programme in the Campus besides in the neighboring villages.
- We have been successfully maintaining the Mentor-Mentee System and remedial classes are arranged for the slow learners.

Concluding Remarks:

Imparting the quality education with human values is the need of the hour today in this competitive age. To fulfill this, SIET provides best quality education in a conducive and competitive environment. The institution strives to enrich its best practices in the direction of analyzing, learning, research, building ethical values and encouraging the students from "Job seekers" to "Job givers". Besides the University curriculum as directed by the affiliating University, JNTUH time to time, the students are trained in a holistic way on both advanced technologies as well the human-touch soft skills as "Industry-Ready". This approach makes them social consciousness and sensitizing them as responsible citizens of the ever changing dynamics of business world. The institute emphasizes more on teaching pedagogies for effective delivery to the students.

EXCLUDED METRICES

List of Excluded Metrices

3 Research, Innovations and Extension : Weightage (120)

3.1 Resource Mobilization for Research : Weightage (15)

Ref No	Details of Metric	weightage	Metric Performance
3.1.2	Percentage of teachers recognized as research guides (latest completed academic year) (Metric Type : **Derived** , Question Type : **QN** , Evaluation : **By DVV** , Nature :**Value**)	5	4.9

3.3 Research Publications and Awards : Weightage (25)

Ref No	Details of Metric	weightage	Metric Performance
3.3.1	Number of Ph.Ds registered per eligible teacher during the last five years (Metric Type : **Derived** , Question Type : **QN** , Evaluation : **By DVV** , Nature :**Value**)	5	3.3

5 Student Support and Progression : Weightage (130)

5.2 Student Progression : Weightage (25)

Ref No	Details of Metric	weightage	Metric Performance
5.2.2	Average percentage of students progressing to higher education during the last five years (Metric Type : **Derived** , Question Type : **QN** , Evaluation : **By DVV** , Nature :**Value**)	10	23.33

6 Governance, Leadership and Management : Weightage (100)

6.4 Financial Management and Resource Mobilization : Weightage (20)

Ref No	Details of Metric	weightage	Metric Performance
6.4.2	Funds / Grants received from non-government bodies, individuals, philanthropers during the last five years (not covered in Criterion III) (Metric Type : **Derived** , Question Type : **QN** , Evaluation : **By DVV** , Nature :**Value**)	8	0

ANNEXURE

Terms and Conditions

☐ I hereby declare that the above mentioned information are true and correct to the best of my knowledge and belief.

☐ I hereby declare that the mentioned metrices are excluded in my knowledge.

☐ I hereby declare that 60% students details for initiate Students Survey are uploaded to the best of my knowledge.

Submit SSR