



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

**SWARNANDHRA INSTITUTE OF ENGINEERING AND
TECHNOLOGY**

SEETHARAMPURAM, WEST GODAVARI

534280

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SSR SUBMITTED DATE: 01-05-2019

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

May 2019

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

Swarnandhra Institute of Engineering and Technology (SIET) was established in the year 2007 by The Vasista Educational Society with the aim of providing quality higher education to the rural masses on par with international standards. The Institute offers four UG B.Tech Programmes in Electrical & Electronics Engineering, Mechanical Engineering, Electronics & Communication Engineering and Computer Science & Engineering, Three P.G. M.Tech programs in Thermal Engineering, Communication Systems and Computer Science & Engineering along with Master of Business Administration.

The institution is accredited by NAAC with 'A' Grade with a score of 3.04 CGPA on 4 point scale in February 2014. The Management is ever ready to provide all the essential infrastructural and instructional facilities in the institute that cater to the student requirements and pave the way for overall development of the students. Special care is taken to groom the students with good personality traits and subject skills. MOUs with different organizations in the country to improve communication skills to make them suitable for industry needs. Students are encouraged to participate in seminars, workshops, co-curricular and extra-curricular activities organized within and outside the institute to make them conscious about the activities in the industry. The college has a 12 station Gymnasium and steam bath facility to keep the students fit and healthy. The entire campus and hostels are provided with Wi- Fi environment to enable students to access internet facility round the clock.

Vision

"To provide the society with a center of learning that motivates, supports and encourages the youth to evolve into dynamic professionals."

Mission

- **To achieve self-sufficiency on all fronts to ensure qualitative teaching- learning practices.**
- **To provide quality education, student-centered teaching learning processes and state-of-the-art infrastructure for professional aspirants hailing from both rural and urban areas.**
- **To impart technical education that encourages independent thinking, develops strong domain knowledge, hones contemporary skills and positive attitudes towards holistic growth of young minds.**
- **To evolve this organization into a Center of Academic and Research Excellence.**

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

STRENGTH, WEAKNESS, OPPORTUNITY AND CHALLENGES (SWOC)

- The campus is extensive over 10 acres with oodles of greenery in clam and serene atmosphere.
- One of the most preferred, engineering colleges situated in a serene rural place Learned, pro-active and visionary management readily responding to the needs and aspirations of all stake holders towards quality education, placements and good governance.
- The institute has state-of-the art laboratories, workshops, well stocked library with digital facilities and internet with Wi-Fi connectivity.
- Semester scheme with continuous assessment.
- Effective teaching learning process with use of ICT tools and student centric methods.
- Efficient and transparent evaluation system
- Feedback taken periodically from students & stake holders is given due weightage for taking corrective measures to strengthen the teaching learning process.
- Good financial discipline through appropriate budgeting and allocation.
- Sports, Gym and Yoga facilities
- Service oriented extension activities through NSS
- Certification courses for students as well as faculty through & NPTEL.
- Personality and skill development programs

Institutional Weakness

- Geographically located in rural area.
- Limited industry – institution interaction and association with premier academic and R&D organizations.
- Lack of communication skills in English among the students as they hail from rural back ground.
- Full residential facilities for staff.

Institutional Opportunity

- To elicit students' skills through training facilities with functional MoUs and collaborations with external bodies.
- Involving faculty members in consultancy through incentives that increases the revenue of the institute.
- Developing leadership qualities among the students
- Collaboration with industry, R&D organizations and educational institutes of eminence. Obtaining quality certification for testing equipment to enhance testing and consultancy.
- Inculcating the traditions of entrepreneurship in rural youth through technology transfer.

Institutional Challenge

- Recruiting and retaining experienced faculty with Ph.D qualification.
- Growing competition from nearby private universities.
- Strengthening the industry institute interaction.
- Increased financial drain due to the increasing obsolescence rate with change of technology.
- Sustaining competitive capabilities with onslaught of foreign institutions and geographical expansion of existing reputed Universities.
- Tendency towards software R&D rather than integrated software and hardware research

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

Swarnandhra Institute of Engineering & Technology is a self-financing institution affiliated to the JawaharLal Nehru Technological University Kakinada. The institution follows the Curriculum and Academic Calendars prescribed by the University. The university revises the curriculum once in every three years to cater to the ever changing needs of the industry. The institute has transformed the university curriculum in to OUTCOME BASED EDUCATION. The curriculum implementation and monitoring processes are developed and documented. The curriculum has incorporated the offered electives in all the undergraduate & postgraduate programmes offered by the institute.

In latest revision of the syllabus i.e. R16 regulation, university has introduced 11% new courses to suit the industry requirement. The university has already introduced the professional ethics and intellectual property rights course as mandatory for all UG programs.

Academic flexibility and bridging the gap between curriculum and industry is achieved by conducting several value added courses, certificate courses, seminars through tie-ups/MOUs with leading industries. The institute encourages self-employability by conducting Entrepreneurship Development Programmes.

The institution promotes safe, healthy and sustainable environment where the students can flourish at personal and community levels.

The College encourages the students to do internships so that the students get familiarized with the functioning of the industry including its rules and regulations, mode of conduct and the standard of the technical skills required to execute the real time projects.

The institution through its feedback mechanism gets the inputs from all the stakeholders from time to time and takes necessary corrective measures.

Teaching-learning and Evaluation

The college ensures publicity through prospectus, institutional website and advertisement in leading newspapers. College ensures transparency in the admission process by strictly following the rules and

regulations laid down by the affiliating university, JNTU Kakinada and the Andhra Pradesh State Council for Higher Education (APSCHE) Government of AP. APSCHE conducts common entrance tests for UG Engineering and PG Engineering & Technology courses. The conveners of the respective CETs make admissions into all the colleges in the state by considering the options given by the students online. Management quota admissions are made by the college based on the rules and regulations prescribed by the APSCHE.

The institution caters to the needs of differently able students by providing them Ramp in all the buildings, Ambulance and Medical facilities. Further, classrooms and laboratories are provided in the ground floor.

All the academic activities such as class work, examinations and trainings are based on the academic calendar prescribed by the university. Class time tables and lesson plans are prepared well in advance before the commencement of classes and are shared with the students and faculty. The students are also made aware of the evaluation procedures, internal and university examination patterns including revaluation and challenge valuation from time to time.

The college takes utmost care in providing quality education to the students. AICTE norms are followed in Faculty recruitment and the Teacher –student ratio of 1: 15 is maintained. Selection of teachers is based on their qualifications, experience and attitude. The college encourages the teachers to participate in orientation and refresher courses, workshops, seminars at state, national and international levels to learn and teach proficiently.

Employability An important graduate attribute being readiness for employability, it is taken care by well planned “Employability Training Camps” conducted by the Department of Training and Placement for the Third Year students during summer and winter vacations, wherein they are given training on varied skill sets.

Societal awareness is created in students through organizing community services like NSS

Global competence through organizing skill development programmes, language proficiency courses and online certification courses being offered by reputed foreign universities

Research, Innovations and Extension

A Research Advisory Committee consisting of The Secretary & Correspondent, Principal, HODs and other faculty from various departments, guide(s) and monitors the initiation and progress of research. Faculty and Students are encouraged to take up projects of social relevance and based on the local needs. The institute has tie-ups with leading organizations like APSSDC, APITA, IBM, ICT Academy and so on for trainings, placements, expert lectures, lab development, etc. Several workshops/seminars are conducted on Intellectual Property Rights and Industry-Academia innovative practices to benefit the staff and students.

The college encourages the faculty to author books, publish papers in reputed journals and conferences, present articles in newsletters and undertake research projects. Cash incentives are given to the faculty members for promoting such activities in the college. Students are also encouraged to take up projects with social relevance and publish their work through interdisciplinary research. Certain level of funding is given by the management for student projects. The faculty members and students take deep interest in undertaking extension and social responsibility programs also.

The R & D Cell follows policy Guidelines for Plagiarism prevention and addresses different issues of research and development. In order to promote research in the institution, it is decided that every faculty should publish at least one paper in conference or journal and must attend at least one Faculty Development Program (FDP) in an academic year.

Infrastructure and Learning Resources

Swarnandhra Institute of Engineering and Technology (SIET) is spread over 10.045 acres conducive for learning in serene environs. The institution has got excellent academic, administrative and support facilities, be it classrooms, seminar halls, laboratories and library. In addition to the top-notch infrastructure for academics, it also has good infrastructural facilities like hostels, canteen and sports complex. A total of 24 buses ply in different routes to commute the staff and students.

All the departments are equipped with LCD projectors, printers, scanners and computers. Institution has ICT enabled classrooms and seminar halls. The institution has a total of 406 computers connected with 50MBPS dedicated leased line and provides free Wi- Fi to all the students and staff.

The library has a very good collection of 3,433 titles and 26,383 volumes. Apart from having good number of books on engineering and technology, it also has a very good collection of wide variety of books ranging from history, religion to ancient Indian science. It is fully automated using Integrated Library Management System (ILMS) software EZ library. Digital library provides online material, e- journals and e-books from NPTEL, DELNET and other resources.

The Institution has excellent infrastructure for various indoor and outdoor sports and games, viz., Cricket, Football, Table Tennis, Shuttle-Badminton, Volley Ball, Basket ball, Chess, Carroms, and Athletics etc. The college hosts a twelve station Gymnasium and other facilities to conduct Yoga Classes and cultural programmes.

Routine and periodic maintenance of the infrastructural facilities are being carried out by maintenance department headed by the estate officer consisting of supervisors, electricians, plumbers, carpenters, painters, masons, gardeners and a good number of supporting staff which takes care of regular and periodic maintenance.

An eco-friendly renewable energy source solar power plant with a capacity of 140KWP has been established to meet the power requirements of the institution. The power generated by the solar plant is directly connected to the grid of Andhra Pradesh Transmission Corporation limited (APTRANSCO). Conventional fluorescent street lamps have been replaced by eco-friendly and extremely energy efficient LED lamps in a phased manner.

Student Support and Progression

The Government of Andhra Pradesh is providing scholarships to the students joining professional courses. All the students who join our college through EAMCET counselling will get a fee reimbursement of Rs.35000/- and have to pay the difference fees, admission fees, examination fees etc. besides transportation. Students joining under management quota have to pay the full fee. However, some poor students approach the management for financial support. The management after careful consideration will provide the suitable financial assistance.

The institution makes special efforts to reduce its dropout rate and increase its pass percentage. Personality development and skill enhancement programmes, coaching classes for competitive examinations, career counselling, soft skill development etc. are arranged to the students. The Training and placement cell helps to identify the job opportunities and arrange company specific trainings to the students on aptitude, reasoning, verbal ability and coding. On-campus interviews are an essential mechanism to ensure student placement. All the students are encouraged to develop entrepreneurship skills by conducting workshops/seminars.

Active student participation through Student Councils is encouraged in all the academic, curricular and co-curricular activities. Students are represented on academic and administrative bodies of the institution. Students are encouraged to participate in state, national and international level sports meets. Feedback from students is used for planning and developing supporting services including the conduct of remedial classes, financial and moral support. The Alumni Association also contributes significantly to the development of the institution.

Discipline is given the utmost importance in the campus. The college administration strongly believes that “Education is the manifestation of wisdom” and every care is taken to mould the students into disciplined and skilled individuals.

The institution has a mechanism for timely redressal of grievances of both staff and students and all efforts are being made to ensure equity and parity. Women grievance cell of the institution takes care of the safety and security of all women including the prevention of sexual (gender) harassment. The anti-ragging committee in which students are included as members, monitors the students interactions effectively.

Governance, Leadership and Management

The leadership of Swarnandhra Institute of Engineering And Technology ensures successful functioning in the areas of teaching, learning, evaluation, research, career planning, training and placements. Governance is based on the equity and objectivity in the application of rules and procedures which are developed and applied without favour or discrimination. The college promotes participative management and has a well designed decentralized internal organizational structure for decision making, coordination and monitoring.

The institution has a perspective plan for the next five years with the strategy to develop the quality of education in line with vision and mission of the institution. Outcome Based Education (OBE) and Experiential learning are implemented in the institution. The College through its Internal Quality Assurance Cell (IQAC) makes concerted and continuous efforts to study, analyse and improvise every strategy, activity, process and procedure in all the domains of the institution. The IQAC conducts a host of awareness programs, training programs and orientation programs with a view to imbibe quality among all its stakeholders. Comprehensive Academic Audit, Feedback from alumni, industry, parents, students, teachers and the community helps it to institutionalize quality culture.

Anti Ragging committee is successfully working and organized many awareness programmes for senior students on legal consequences, identified and kept close observation of sensitive areas. Cameras are installed all over the campus for strict vigil.

The Institute provides group insurance and various other welfare measures for the staff. Faculty members are encouraged/sponsored to participate in Conferences / Workshops to enhance their quality in academics and pursue their research. The institution conducts several skill development, Personality Development and communication skills programmes to the staff and students.

The accounts and procedures of internal control of finance are carried out by the accounts team on a day to day basis and annual audit is done by the statutory auditor. The audit of accounts and income tax returns are submitted regularly each year. There are no audit objections since the institution follows a good system of internal controls.

Institutional Values and Best Practices

Recent advancements in the fields of Engineering, Technology and Management have revolutionized the progress in communication logistics and IT which shrunk the world into a global village. On par with global competencies, Swarnandhra Institute of Engineering & Technology (**SIET**) is marching towards excellence with committed management, competent faculty and enthusiastic students and is poised to take a giant leap into other dimensions of academic upswing in the years to come. The institute maintains complete transparency in its financial, academic, administrative and auxiliary functions.

SIET has all the facilities and infrastructure required to impart quality education to the students and make their stay comfortable during their course of study. The college besides providing quality education to the students strives to develop all the skills required for them to excel in their workplace also. SIET celebrates all important days of National /International importance days and conducts a number of activities to promote Universal values. The college is sensitive to gender equity and parity. All the staff and students have to follow the rules and regulations prescribed and implemented in the college from time to time in the Code of conduct-book. Women empowerment is given the highest priority and all the required facilities, safety and security including the prevention of sexual harassment are provided to them through the women grievance cell.

As part of the green initiative, our college has made land scaping with trees and plants. Within the campus, lush green and flowering plants are planted alongside the roads/pathways creating a wonderful microcosm. SIET has the rain harvesting system to protect and maintain the ground level water. Several plantation programs like Vanam-Manam, Neeru-Meeru are also conducted by students in and around the campus. The college has installed a solar rooftop plant, and is marching towards energy conservation. The issues of waste production are efficiently managed and the E-waste is sold to the outside vendor. Housekeeping department ensures a clean campus.

NAAC

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	SWARNANDHRA INSTITUTE OF ENGINEERING AND TECHNOLOGY
Address	Seetharampuram, WEST GODAVARI
City	NARSAPUR
State	Andhra Pradesh
Pin	534280
Website	www.swarnandhra.edu.in

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	TENNETI MADHU	08814-240462	9848368054	08814-240466	principal.siet@gmail.com
Associate Professor	V.SRINIVAS	-	9948181034	-	srinivas.siet@gmail.com

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details	
Date of establishment of the college	08-08-2007

University to which the college is affiliated/ or which governs the college (if it is a constituent college)

State	University name	Document
Andhra Pradesh	Jawaharlal Nehru Technological University,Kakinada	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	29-04-2018	12	

Details of autonomy

Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	No
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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	Seetharampuram, WEST GODAVARI	Rural	10.045	18344

2.2 ACADEMIC INFORMATION

NAAC

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BTech,Electrical And Electronics Engineering	48	Intermediate or its equivalent	English	60	0
UG	BTech,Mechanical Engineering	48	Intermediate or its equivalent	English	120	1
UG	BTech,Electronics And Communication Engineering	48	Intermediate or its equivalent	English	120	57
UG	BTech,Computer Science And Engineering	48	intermediate or its equivalent	English	120	102
PG	Mtech,Mechanical Engineering	24	B.E B.Tech or its equivalent	English	18	11
PG	Mtech,Electronics And Communication Engineering	24	BE B.Tech or its equivalent	English	18	3
PG	Mtech,Computer Science And Engineering	24	BE B.Tech or its equivalent	English	18	0
PG	MBA,Business Administration	24	Any Degree	English	60	18

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	4				8				107			
Recruited	4	0	0	4	7	1	0	8	57	50	0	107
Yet to Recruit	0				0				0			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				25
Recruited	16	9	0	25
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				11
Recruited	6	5	0	11
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	3	0	0	1	0	0	0	0	0	4
M.Phil.	0	0	0	1	1	0	0	0	0	2
PG	0	0	0	9	1	0	55	48	0	113

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	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			Total
	Male	Female	Others	Male	Female	Others	Male	Female	Others	
D.sc/D.Litt.	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		Total
	0	0	0	0	0

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

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
Diploma	Male	47	0	0	0	47
	Female	0	0	0	0	0
	Others	0	0	0	0	0
PG	Male	37	0	0	0	37
	Female	29	0	0	0	29
	Others	0	0	0	0	0
UG	Male	617	0	0	0	617
	Female	402	0	0	0	402
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	4	8	13	14
	Female	1	10	4	8
	Others	0	0	0	0
ST	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	33	67	60	98
	Female	32	31	25	32
	Others	0	0	0	0
General	Male	59	106	95	144
	Female	64	74	81	69
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		193	296	278	365

3. Extended Profile

3.1 Program

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

Response: 1180

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of programs offered year-wise for last five years

2017-18	2016-17	2015-16	2014-15	2013-14
9	9	9	9	8

3.2 Students

Number of students year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1236	1319	1197	1084	1192

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 the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
370	370	370	370	281

File Description	Document
Institutional data in prescribed format	View Document

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

2017-18	2016-17	2015-16	2014-15	2013-14
327	353	263	373	429

File Description	Document
Institutional Data in Prescribed Format	View Document

3.3 Teachers

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

2017-18	2016-17	2015-16	2014-15	2013-14
112	122	135	120	103

File Description	Document
Institutional Data in Prescribed Format	View Document

Number of sanctioned posts year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
122	122	143	130	105

File Description	Document
Institutional data in prescribed format	View Document

3.4 Institution

Total number of classrooms and seminar halls

Response: 42

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

2017-18	2016-17	2015-16	2014-15	2013-14
505.4	390.3	341.2	212.1	419.9

Number of computers

Response: 406

4. Quality Indicator Framework(QIF)

Criterion 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

Response:

SWARNANDHRA INSTITUTE OF ENGINEERING AND TECHNOLOGY(SIET),seetharamapuram,Narsapur established in 2007, is one of the premier technical educational institutions in AP. The institution is approved by AICTE, New Delhi and

is affiliated to the Jawaharlal Nehru Technological University Kakinada (JNTUK), Kakinada, Andhra Pradesh.

COLLEGE ACADEMIC COMMITTEE of the SIET conducts extended meetings with the heads of all departments to develop strategies for effective implementation of the curriculum prescribed by JNTUK, Kakinada. There after Head of the Department conducts meeting with their respective faculty members to allocate the subjects based on their qualification, subject specializations, experience and performance.

The teaching plans are prepared by the respective faculty members.Each Department of the college follows the academic calendar issued by the affiliating university. Every faculty member will prepare a course file which contains academic calendar, syllabus copy, list of students, individual time table, lesson plan, assignments, mid question papers, previous question papers, unit wise assignment questions, performance analysis, result analysis teachingdiary , course contentfurther co-po mapping is maintained by each faculty for their respective subjects allotted.

Class Teachers are also appointed to closely monitor the Teaching-Learning process and report the progress to the principal through HODs.

The implementation of the curriculum is monitored through student representatives,

Heads of the Department,Class Teachers and Principal at regular intervals. Various co-curricular and extracurricular activities are planned during the semester/year without disturbing the university calendar.Thus the college has made teaching as student centric. Well-equipped labs with facility of advanced teaching aids such as LCD projectors and WI-FI are provided. The students participate in group discussions, debates and seminars. Industrial visits are arranged for the students. Student counseling

system is another effective criterion observed effectively in the Institution. Remedial classes are accomplished for weak students and slow learners.

Teachers are encouraged to impart the curriculum through innovative teaching methods such as presentations, assignments, workshops, seminars, industrial visits, ICT tools or other means apart from regular/traditional teaching methods.

Conduction of Faculty Development Programs on a regular basis is another asset to the Institution. Faculty members are encouraged and sponsored to attend seminars, workshops and conferences organized in premier institutes.

SIET also has entered into MOU with few industries for better training in core fields.

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

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 11

1.1.2.1 Number of certificate/diploma programs introduced year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
7	4	0	0	0

File Description	Document
Details of the certificate/Diploma programs	View Document
Any additional information	View Document

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 0

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Details of participation of teachers in various bodies	View Document

1.2 Academic Flexibility

1.2.1 Percentage of new Courses introduced out of the total number of courses across all Programs offered during last five years

Response: 19.92

1.2.1.1 How many new courses are introduced within the last five years

Response: 235

File Description	Document
Details of the new courses introduced	View Document

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 09

File Description	Document
Name of the programs in which CBCS is implemented	View Document
Any additional information	View Document

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

Response: 49.25

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

2017-18	2016-17	2015-16	2014-15	2013-14
788	708	545	487	457

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	View Document
Any additional information	View Document

1.3 Curriculum Enrichment

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

Response:

Swarnandhra Institute of Engineering and Technology is always ahead in introducing cross cutting issues which benefits the students. The issues that are of priority are listed below;

Gender equality:

The institution makes efforts to bring awareness among the students about gender sensitization. It conducts occasional workshops and seminars.

The workshop/seminar will deal with issues pertaining to the relationship between men and women, caste, declining sex ratio, struggles with discrimination, sexual harassment, new forums for justice, and eve-teasing. Through accounts of studies and movements, the course also hopes to expose students to new laws on gender issues.

Women grievance committee is formed to look after the welfare of all girl students. Gender equality is attained by conducting the programs for both boys and girls on a single platform.

Professional Ethics and Human values:

A course on Professional Ethics & Human values is offered to the students as part of the curriculum. This course has been designed in a way to impart ethical values among the young engineers and to develop clarity of thought in decision making. It also makes them think logically and sensibly to reflect their work as an engineer at their workplace. By the end of this course, students will be equipped with qualities required for the protection of the intellectual property which is being a major concern of many companies today. Thus it is a course, which makes an individual to acquire the psychological ability through understanding, thought, experience and perception.

Environment and Sustainability:

Environmental Studies course which is part of the curriculum helps the students to understand the environmental issues of sustainability. It is a course to equip students in a better way for making decisions and taking economically feasible actions that are in the interests of protecting the nature. The curriculum provides an opportunity to go through the Environmental Impact Assessment processes introducing renewable and non renewable energy resources.

File Description	Document
Link for Additional Information	View Document

1.3.2 Number of value added courses imparting transferable and life skills offered during the last five years

Response: 63

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 63

File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document
Brochure or any other document relating to value added courses.	View Document
Any additional information	View Document

1.3.3 Percentage of students undertaking field projects / internships

Response: 8.82

1.3.3.1 Number of students undertaking field projects or internships	
Response: 109	
File Description	Document
List of students enrolled	View Document
Institutional data in prescribed format	View Document
Any additional information	View Document

1.4 Feedback System

<p>1.4.1 Structured feedback received from 1) Students, 2) Teachers, 3) Employers, 4) Alumni and 5) Parents for design and review of syllabus-Semester wise/ year-wise</p> <p>A. Any 4 of the above</p> <p>B. Any 3 of the above</p> <p>C. Any 2 of the above</p> <p>D. Any 1 of the above</p> <p>Response: A. Any 4 of the above</p>	
File Description	Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View Document
URL for stakeholder feedback report	View Document

<p>1.4.2 Feedback processes of the institution may be classified as follows:</p> <p>A. Feedback collected, analysed and action taken and feedback available on website</p> <p>B. Feedback collected, analysed and action has been taken</p> <p>C. Feedback collected and analysed</p> <p>D. Feedback collected</p> <p>Response: B. Feedback collected, analysed and action has been taken</p>

File Description	Document
Any additional information	View Document
URL for feedback report	View Document

NAAC

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 0.07

2.1.1.1 Number of students from other states and countries year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	0	0	3	0

File Description

Document

List of students (other states and countries)

[View Document](#)

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 53.93

2.1.2.1 Number of students admitted year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
295	350	449	325	290

2.1.2.2 Number of sanctioned seats year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
528	690	690	690	570

File Description

Document

Institutional data in prescribed format

[View Document](#)

Any additional information

[View Document](#)

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 39.81

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

2017-18	2016-17	2015-16	2014-15	2013-14
115	137	191	142	115

File Description	Document
Institutional data in prescribed format	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, after admission and organises special programs for advanced learners and slow learners

Response:

The college arranges Awareness / Induction Program to the parents and students admitted in to the B Tech courses before the commencement of classes regarding facilities, faculty expertise, rules and regulations of the college. The students and parents are encouraged to express their problems and elicit other information during the interaction which will help the college authorities to act accordingly. The differential requirements of students are identified and addressed at the earliest by way of a strategic approach that involves bridge programs like communication skills, personality development and motivational sessions. Institute has a mechanism which continuously monitors and evaluates the students. The participation of the students in class room discussions, performance in class tests, class room seminars, class committee meetings and feedbacks measure their learning abilities and identify slow learners and advanced learners.

The advanced learners:

Extra materials are provided to widen their horizon. Peer teaching and group presentations are encouraged by teachers. They are given the lead role to plan and organize fests/events, departmental seminars/conferences which gives them an opportunity to interact with the academia and industry experts. They are groomed to represent the college during seminars, paper presentations and student fests organized by other colleges. They are motivated to strive for higher goals and provided with additional inputs for better career planning and growth. We offering special coaching for exams like

- GATE/CAT/MAT
- INTERNSHIPS

- CRT

The slow learners:

Identifying the weak students based on their academic performance. In a class, students are divided into groups and Mentors (faculty members) are assigned to each group right from I to IV year. In view of mentoring the faculty members suggest/guide the students in curriculum & personal issues. A prescribed mentor book is provided to the mentor for recording the status of the student, starting from first year to final year. The mentor ascertains the difficulties faced empathetically and provides requisite guidance and assistance by way of arranging special tutorials, labs, video lectures and personal attention by concerned faculty. The mentor will be in touch with the student's parents and updates the status of his ward. Remedial classes are conducted in courses where failures are more in external exams. Apart from the conventional teaching, the students are taught using modern teaching aids like LCD etc. Special bridge courses are arranged for the lateral entry students in the II year to help them cope with theory subjects including Mathematics. We offering special coaching for slow learners like

- Remedial class
- Individual counselling

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

2.2.2 Student - Full time teacher ratio

Response: 11.04

File Description	Document
Any additional information	View Document

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0

2.2.3.1 Number of differently abled students on rolls

File Description	Document
Institutional data in prescribed format	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

Response:

The objective is to enhance learning by creating and supplying the students with adequate stimulus in order to mould them to be independent and grab the opportunity to participate in a student-centered learning. Student centric methods for the skill based and outcome based education in the following ways.

Experiential Learning:

Through experiential learning, the institution provides the following opportunities to the students to attain knowledge.

Laboratory:

The institution provides learning environment to the students in the laboratory to acquire practical knowledge. The faculty members encourage the students and give autonomy to discuss, revise, modify and access while doing experiments. In order to provide better learning experience students are encouraged to do experiments using virtual labs and add on experiments.

Mini Projects:

The faculty members encourage the students to prepare mini projects for developing their learning skills and innovative skills.

Internships:

The institution helps the students to go for internships which are helpful to get work experience. The students utilize these internships and develop their skills and get real time industrial experience.

Case studies:

Faculty members encourage the students to observe case studies which are helpful to improve the skills of critical thinking in diverse fields of Management marketing and Finance. Students participate actively and acquire practical knowledge.

Participatory Learning: Participatory learning makes learning accessible and offers open participation and progression through different stages of achievement. The institute adopted the following methods to transform the learning environment.

Active learning: The students are encouraged to participate actively in activities like think pair share, in

class team and Jigsaw etc. These activities are helpful to the students to sharpen their critical thinking and problem solving activities.

Learning Management System (LMS):

The institution adopts the LMS. The faculty members utilize the ICT enabled teaching including E learning resources like Google class room which are helpful to share the material and encourage the students to participate in discussions and clarify their doubts.

Seminars: The student seminars are organized in the college on subjects and contemporary topics to enrich their knowledge and enhance their learning experience.

Massive Open Online Courses (MOOCs): The students are encouraged to enroll themselves MOOCs like NPTEL and have got the access to video lectures for effective teaching learning practice

Problem- Based Learning:

The faculty members conduct tutorial classes to clarify the doubts of the students. They interact with the students in a friendly way and explain the difficult topics whenever required and improve their performance. Students are given problems from prescribed books and reference books as assignment in a group. By following the student-centric learning methods in the institution, the students are encouraged towards performance based learning which is helpful to explore their inner spirit and to reach their goals.

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

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 100

2.3.2.1 Number of teachers using ICT

Response: 112

File Description	Document
List of teachers (using ICT for teaching)	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 19.31

2.3.3.1 Number of mentors

Response: 64	
File Description	Document
Any additional information	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

Active learning strategies transform the class in a powerful way by involving the students to work with the course material in the classroom either individually or in groups. Active learning strategies such as role play, Mnemonics, Mind Mapping and just a minute are extensively used to improve the learning capabilities. These learning strategies, unlike open class discussion, are timed, structured, and are designed to give students a chance to learn by acting on a specific piece of content. Students learn material better when they engage it actively rather than absorb it passively. E-learning platforms are provided to facilitate independent learning, bridge the gap from classroom learning and also to supplement the advanced learning concepts. Available e-learning platforms include ERP, learning resources through CDs and DVDs.

Teaching-learning is a phenomenon where the teacher and student both learn. Traditional teaching has been replaced with more innovative and creative ways of disseminating, sharing and facilitating knowledge development in students. By this method, the teacher refines his/ her subject knowledge and effective teaching skills, where as the student finds it easier to understand the subject and its applications. As both are involved with commitment, an interest has been created in the student and the teacher to come out with new and innovative ideas. Our faculty members explain/discuss the course content with live examples wherever possible. This teaching-learning innovative method would certainly encourage the students to raise questions and some times, with working models development, they get answers to their queries. This kind of support would certainly enhance their innovative skills and creative ideas.

All the departments are well equipped with ICT-enabled facilities like computers with internet facility, E-classrooms and online content from NPTEL and other open course ware from reputed universities like Stanford and MIT. Video conferencing facility through Skype is made available to the faculty and students

File Description	Document
Any additional information	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

Response: 95.32

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	View Document
List of the faculty members authenticated by the Head of HEI	View Document
Any additional information	View Document

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 2.89

2.4.2.1 Number of full time teachers with Ph.D. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	4	4	2	4

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	View Document

2.4.3 Teaching experience per full time teacher in number of years

Response: 6.25

2.4.3.1 Total experience of full-time teachers

Response: 700

File Description	Document
Any additional information	View Document

2.4.4 Percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 0

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
0	0	0	0	0

File Description	Document
Institutional data in prescribed format	View Document

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 3.64

2.4.5.1 Number of full time teachers from other states year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6	5	6	4	2

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	View Document
Any additional information	View Document

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

The institute has taken efforts to improve the performance of students by framing significant reforms in Continuous Internal evaluation at the institute level as mentioned below:

1. Remedial measures are taken by conducting tutorial classes to clarify doubts and explaining the critical topics for the slow learners.
2. Unit tests are conducted prior to midterm examinations.
3. Unit wise question banks are provided for all subjects.
4. Students are encouraged to solve previous years University Exam question papers.

6. Google class room learning Management System is utilized for Continuous internal evaluation like quiz and assignments
7. Mnemonics and mind mapping are included as an innovative practice.
8. The institute regularly conducts group discussions, seminars and guest lectures.
9. Poor performance due to frequent absenteeism is dealt by sending registered letters to the parents of such students.
10. The institute effectively uses the WhatsApp group wherein all the information related to the examinations and academics are communicated to the faculty and students.

Impact:

These reforms have resulted in substantial improvement in student's performance through comprehension of difficult topics, improved time management, enhanced writing skills and individualized attention resulting in refining their cognitive, psychometric and affective domains of learning. This has significantly enhanced the pass percentage and academic excellence of students.

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

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety**Response:****Mechanism of internal assessment is transparent and robust in terms of frequency and variety:**

Internal assessment in the college is so transparent that every student has an idea about the standard internal evaluation process of the theory & practical subjects. The institute follows the regulations of JNTUK University. Marks for the experiments performed will be displayed in the department notice boards. The answer scripts are given back to the students after evaluation for their information, providing sufficient transparency and accountability. Continuous internal evaluation marks are shown to students along with their answer scripts by the teacher concerned enabling them to have access to the evaluated answer scripts before the marks are forwarded to the examination section within a week time of commencement of the laboratory sessions.

At regular intervals, class tests and mock interviews are conducted to assess the learning outcomes. Based on the performance, Students are individually suggested to overcome their barriers. At the time of placement drives, the visiting HR team is requested to summarize the performance of the students. Based on such feedback, suitable amendments are implemented to the teaching and learning aspects of skills training. The same is also intimated to the students for their future improvement. The mid examination

marks are intimated to the ward's parents also.

The college prepares an Academic Calendar in line with university calendar prior to the commencement of the academic year in consultation with the Heads of the Departments. Then the College organizes orientation programs to the students to make them acquainted with the rules and regulations of the affiliating university, examinations, evaluation process, extra-curricular activities etc., similarly every department organizes a semester orientation program with parents in the first week after starting a new semester. Head of the departments communicate about the labs & theory subjects of the semester to the students, parents and other institutional members in the semester through college website.

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

Redressal of grievances at institute level:

Level 1 - Departmental Level: The continuous evaluation of students is carried out by faculty regarding theory subjects, labs, assignments, unit tests, prelim exam, etc. The term work is allotted based on the defined strategies and query if any will be discussed with faculty and HOD. Issues of any term work like shortage of attendance, mid marks, etc. are rectified at the departmental level.

Level 2 – College Level: The college Examination in-charge controls all the online/ theory examinations, displays schedules, instructs to the students for smooth conduction of examinations of JNTUK. If students face any problems, they are solved by the observer appointed by the JNTUK. The grievances during the conduction of online/theory examinations are solved in consultation with the Principal and if necessary forwarded to the JNTUK by the examination section.

Redressal of grievances at University level:

Examination form filling, exam seat allotment, results, photocopy, revaluations etc. are coordinated by examination section to JNTUK. The result queries, printing mistakes of mark sheets, corrections if any are handled at JNTUK examination section after forwarding such quires through the college examination section. Any queries of students during online examinations are communicated to the JNTUK immediately and get clarified to satisfy the student who is appearing for online examinations.

The same policy is also adopted for JNTUK theory examination. The queries related to errors in mark sheets, evaluation, photocopy are totally handled by JNTUK in which the role of institute is to take the

follow up with JNTUK till the student satisfies.

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

The academic calendar issued by the affiliating university forms the basis for designing college academic calendar. In a semester, there are two tests and two assignments. Each of the tests consists of descriptive questions as well as Objective type in R13 regulation.

As per the JNTUK regulations, the marks allotted for internal exams are 30 and that of external exams are 70. The objective paper is for 10 marks and subjective paper is for 15 marks, with duration of 1 hour 30 minutes (20 minutes for objective and 90 minutes for subjective paper) and 5marks are allotted for assignment submission.

- Objective paper is set by the University, 20 bits of multiple choice questions for 10 marks.
- Subjective paper of each semester shall contain 3 full questions (one from each unit) of which, the student should answer each carrying 5 marks.
- First mid term examination shall be conducted in the first 3 units of syllabus and second mid term examination shall be conducted from the remaining 3 units and will be evaluated for 30marks.
- 5 marks are allocated for Assignments (as specified by the concerned subject teacher) – first Assignment should be submitted before the first mid and the second should be submitted before the second mid.
- The internal marks secured by the student will be based on the marks obtained in two mid examinations and the successful submission of assignments.
- **For practical subjects:**
- There shall be a continuous evaluation during the semester for 25 sessional marks and 50 end examination marks.
- Out of the 25 marks for internal, day-to-day work in the laboratory shall be evaluated for 10 marks and internal examination for practical shall be evaluated for 10 marks conducted by the concerned laboratory teacher and 5marks are allotted for the record.
- The end examination shall be conducted with external examiner and laboratory teacher. The external examiner will be appointed from colleges as decided by the University examination branch (Controller of examination JNTUK).
- Evaluation of mini projects and main projects are also under the purview of University.

File Description	Document
Link for Additional Information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:**Program Outcomes(POs), Program Specific Outcome(PSOs) and Course Outcomes(COs) Communicated through:**

POs and PSOs are approved by the Department Advisory Board and are made available in the Institute website, locations of the campus for staff, students and public view, Laboratories and Department library.

- POs and PSOs are communicated to employers and Alumni by sending mail and during the Alumni Meeting.

Course Outcomes (COs) framed in the Departments will calculate the COs with the help of subject teacher and an expert in that area. The course outcomes and their mapping with program outcomes and program specific outcomes are elaborately discussed and derived by the course committee members.

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

and life-long learning in the broadest context of technological change.

File Description	Document
COs for all courses (exemplars from Glossary)	View Document
Any additional information	View Document
Link for Additional Information	View Document

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

Program Outcomes are declared for each program offered in this college. The learning outcomes are printed in the JNTUK Syllabus book and are given to the students at the beginning of the course work. Learning outcomes are exhibited in the respective departments and are also displayed in the college website. All the faculty and students are familiarized about the use of bloom's taxonomy in calculating the CO's, PO's and PSO's.

The Program outcomes are presented and discussed with all the staff members by the Head of the Department. The particular outcomes of Programs are discussed in the class rooms by Head of the Department and faculty members during the commencement of every semester to train all the students on how to achieve these outcomes by the end of the course work of corresponding programs. Program specific outcome is estimated by the parameters such as the percentage of marks / CGPA and number of backlog subjects in each semester and accordingly remedial classes are arranged.

Course outcomes are clearly specified for each course, both theory and laboratory. Interaction with the industry is organized by way of regular industrial visits and by implementing industry oriented projects. Creative and challenging problems are given as home work and group assignments to the students. The achievement of course outcomes is supervised through the performance of students in their internal and semester end examinations. Course end survey is organized on program outcomes at the end of course work and is evaluated on a 3 - point scale.

Alumni feedback is taken every year and is evaluated on a 3 - point scale. Feedback from employers of our students is also collected and estimated. The data collected from all the above sources is analyzed to determine the extent of achievement of program specific outcomes at department level and college level. The estimate is used for enhancements year-after-year by adopting new procedure to overcome the flaws, if any, in achieving the stated program outcomes.

File Description	Document
Any additional information	View Document

2.6.3 Average pass percentage of Students**Response:** 64.83

2.6.3.1 Total number of final year students who passed the examination conducted by Institution.

Response: 212

2.6.3.2 Total number of final year students who appeared for the examination conducted by the institution

Response: 327

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

2.7 Student Satisfaction Survey**2.7.1 Online student satisfaction survey regarding teaching learning process****Response:**

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Response: 0.4

3.1.1.1 Total Grants for research projects sponsored by the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
0.4	0	0	0	0

File Description	Document
List of project and grant details	View Document
e-copies of the grant award letters for research projects sponsored by non-government	View Document

3.1.2 Percentage of teachers recognised as research guides at present

Response: 0.89

3.1.2.1 Number of teachers recognised as research guides

Response: 1

File Description	Document
Any additional information	View Document

3.1.3 Number of research projects per teacher funded, by government and non-government agencies, during the last five year

Response: 0

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

3.1.3.2 Number of full time teachers worked in the institution during the last 5 years

Response: 00

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

Institution has created an eco system for innovations including Incubation centre and other initiatives for creation and transfer of knowledge:

Institution has created an eco system for creation and transfer of knowledge. The institution promotes innovative incubation centers in the campus to encourage students towards innovative ideas. Aim of new venture in the areas of science and technology, towards education.

This institution supports and encourages faculty and students to develop their knowledge for long time academic growth and also supports the following ...

- Encourage faculty to take research initiatives and proposals to prepare.
- Proposes to conduct/ participate workshops, seminars, conference, training programs and arrange guest lectures by inviting eminent personalities.
- Encourage faculty to publish their findings in National/International Journals/ Conferences and recommend the management for financial incentives.
- Encourage the faculty and students to attend and present Research papers in National/International Level seminars and conferences by providing incentives.
- Recommends to the management for establishing the required infrastructure for doing research work by modernizing the existing laboratories to meet the current industrial requirements.
- Encourages the students to visit industry oriented knowledge such as steel Plant, BHEL, Power Plant. etc

To enhance the learning process towards a creative way of education, institution has conducted various workshops and seminars. In order to reinforce knowledge among the student community with the support of Andhra Pradesh State Skill Development Corporation (APSSDC) by Andhra Pradesh, Andhra Pradesh Information Technology Academy (APITA) Falcon Service System (FSS), National Program by Technology Enhanced Learning (NPTEL) by IIT Madras Chennai, and some more other Various programs organized by the institution as follows:

- Embedded with IoT (Internet of Things)
- Fundamentals of Python Programming
- Mobile Application development
- Google Android development

Further, lectures, seminars, workshops and value added programs are arranged to the students with the necessary professional skills to meet the global standards. The institution also recognizes the students who come up with an innovative idea and make them job ready.

File Description	Document
Any additional information	View Document

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 5

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	1	1

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

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

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

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: Yes

File Description	Document
e- copies of the letters of awards	View Document
Any additional information	View Document

3.3.3 Number of Ph.D.s awarded per teacher during the last five years**Response:** 1

3.3.3.1 How many Ph.Ds awarded within last five years

Response: 4

3.3.3.2 Number of teachers recognized as guides during the last five years

Response: 4

File Description	Document
URL to the research page on HEI web site	View 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

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years**Response:** 0.76

3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
15	13	23	21	18

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

3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years**Response:** 0.12

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

2017-18	2016-17	2015-16	2014-15	2013-14
1	2	4	3	4

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

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

National Service Scheme is a community service programme sponsored by the Ministry of Human Resource Development, Govt. of India. This scheme promotes national solidarity. It would be possible to awaken the villagers and slum dwellers to their responsibilities and develop the confidence, to tackle their common problems with energy, enthusiasm and in a co-operative spirit, based on mutual aid and self-reliance. The motto of the National Service Scheme is "NOT ME BUT YOU." This expresses the essence of democratic living and upholds the need to appreciate the other man's point of view first and to show consideration for fellow human beings. It also underlines that the welfare of an individual is ultimately dependent on the welfare of society as a whole. Therefore, the aim of the NSS is to demonstrate this motto in its day to day program.

Some major activities that we conducted are Blood Donation camps, Tree Plantations, Free Medical Camps (eye and dental), AIDS awareness and Polio Awareness Rallies, Swachh Bharath, Yoga day, Personality development training activities, Digital Literacy Campaigns, Cleaning of public places like schools, panchayat offices, temples and community halls.

Apart from these regular activities, we also undertake a one week Special Camping Program which is purely planned and scheduled for the benefit of the adopted village with a specific theme every year as a part of the community development.

Students render their services to create awareness on Right to Education, Right to Vote, Digital literacy, Women empowerment, avoiding plastic usage and environment cleanliness programs.

By participating in these extension/social outreach programs students will have an opportunity to understand the life style and standard of living of the people in villages. With these real time experiences students will become good citizens of this country and imbibe the quality of social justice and responsibility towards their under privileged fellow citizens.

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

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

Response: 9

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

2017-18	2016-17	2015-16	2014-15	2013-14
2	3	2	1	1

File Description	Document
Number of awards for extension activities in last 5 years	View Document
e-copy of the award letters	View Document

3.4.3 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., during the last five years

Response: 42

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with Industry, Community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
8	11	10	6	7

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

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 52.64

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
626	716	917	405	528

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

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 13

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
8	2	2	0	1

File Description	Document
Number of Collaborative activities for research, faculty etc	View Document
Copies of collaboration	View Document

3.5.2 Number of functional MoUs with institutions of National/ International importance, Other Institutions, Industries, Corporate houses etc., during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 18

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 (only functional MoUs with ongoing activities to be considered)

2017-18	2016-17	2015-16	2014-15	2013-14
6	4	3	3	2

File Description	Document
e-copies of the MoUs with institution/ industry/ corporate house	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

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

Swarnandhra Institute of Engineering & Technology (SIET) has adopted policies and procedures to provide and continuously enhance facilities for teaching – learning. viz., class rooms, laboratories, computing equipment etc. The institution has provided all the academic infrastructural facilities in compliance with AICTE norms. The existing infrastructural facilities are utilized for conducting theory and practical classes. There are altogether 6 buildings for academics and administration. The college has well furnished classrooms with ICT facilities, e-class rooms, tutorial rooms, seminar halls, well equipped laboratories, workshops, drawing halls, English communication skills lab, well stocked central library along with departmental libraries, digital library, staff rooms with computers & laptops, Wi-Fi connectivity at every nook and corner, a computer centre.

The Central library is equipped with facilities like computers, printers and internet. It is fully automated with EZ library software and has a collection of 3,433 titles and 26,383 volumes. The institution subscribes DELNET which provides e- journals and e-books. Digital library provides online material from NPTEL, DELNET and other resources to staff and students throughout the year.

The institution has adequate computer facilities and other learning resources, which are extensively used for academics. The computer laboratories and the computer centre comprise a total number of 406 computers. The computers are interconnected in Local Area Network (LAN) in respective labs. All the departments are equipped with LCD projectors, printers, scanners and computers upgraded with latest software tools to promote the ICT infrastructure. Institution has ICT enabled class rooms and seminar halls and each and every department has a separate e-classroom to foster a better teaching learning experience.

The institution has 50MBPS leased line internet connection. The institution provides a free access of Wi-Fi to the students and staff.

The examination section has sufficient computers, high-speed printers & Xerox machines and high speed static IP internet of 50 KBPS to cater to the requirement of Electronic Distribution of Examination Papers (EDEP) system for the smooth conduct of examinations in the college.

Instructional Facilities:

Particulars	Number of Rooms	Total carpet area(Sq.Mtrs)
Class Rooms	15	1620
Class Rooms with ICT facilities	9	608
Tutorial Rooms	6	198
E- Class Rooms	6	405
Seminar halls with ICT facilities	3	533
PG Seminar halls with ICT facilities	3	210
Drawing Halls	2	300
Library	1	1264
Laboratories	21	2028
Workshops	3	650
Computer centre	1	150

Administrative and other amenities:

Particulars	Number of Rooms
Governing body room	1
Principal room	1
Staff rooms	10
HOD rooms	4
Student rest rooms	2
Examination section	1
Principal office	1
Stores	1
Dispensary	1
Boys' hostel	1
Girls' hostel	1
Canteen, mess, food court etc.	4

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

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

Response:

Sports and games:

The Institution has excellent infrastructure for various indoor and outdoor sports and games, viz., Cricket, Football, Table Tennis, Shuttle-Badminton, Volley Ball, Basket ball, Chess, Carroms, and Athletics etc. The college has the following facilities:

OUTDOOR COURTS:

The details are given hereunder.

S.No	Description of Sport/Game	Total Area in Sq. Mtrs.
1	Athletics Non-standard Track 200 (meters)	3200
2	High jump and long jump Pit	540
3	Cricket	6400
4	Volley Ball Court	1265
5	Throw Ball Court	510
6	Basket Ball Court	1760
7	Tennikoit Court	270

8	Kabaddi Court	676
9	Badminton Court (Boys)	405
10	Badminton Court (Girls)	567

INDOOR COURTS:

The institution provides the required facilities to students and faculty in the indoor courts for playing Chess, Carroms and Table tennis.

S. No.	Description of Sport/Game	Total Area in Sq. Mtrs.
1	Chess	24
2	Carroms	16
3	Table Tennis	77

GYM FACILITIES:

The institution has a twelve station Gymnasium with all the required facilities. It also has steam bath facility. Boys and Girls are allowed to the Gym on separate days and timings.

The particulars of the gymnasium are given hereunder.

S. No.	Description of Equipment	Total Area in Sq.Mtrs.
1	Twister Stand	4
2	Walkers	9

3	Pushups Stand	4
4	Cycles	12
5	Abs Pro	4
6	Weight Lifting Stands and Dumbles	15
7	Vibration Machine	4
8	Steam Bath	15
9	Twelve Station Multi Gymnasium	40
10	Treadmill	9

YOGA:

The institution conducts Yoga Classes for staff and students. Books and CDs on yoga and meditation are made available to students and staff. The Seminar hall accommodates 100 students for doing Yoga - Mats are also provided to the students and staff. The Seminar hall is equipped with AC, Audio, Visual and PA system.

Cultural Activities:

The institution conducts several co-curricular and extra-curricular activities to bring out latent talents of the students. Portable mike and speaker sets are provided to the students for their practice. Cultural competitions and programmes are being conducted on various occasions every year. Every year Rangoli competitions are conducted. Necessary items like crystal salt, colors are being provided by the institution. Traditional dress completion for girl students is also conducted on the elevated platform. Swarnandhra celebrates Sankranthi Sambaralu (Pongal Celebrations) once in every 4 years on 12th January which happens to be Swami Vivekanada's birth day i.e. National youth day to make the students aware of our Indian tradition and culture and to show case village arts. Recently Sankranthi Sambaralu was celebrated on 12-01-2019.

File Description	Document
Any additional information	View Document
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

Response: 50

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 21

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	View Document
any additional information	View Document
Link for additional information which is optional	View Document

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 36.52

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
22.5	9.02	22.06	210.2	295

File Description	Document
Details of budget allocation, excluding salary during the last five years	View Document
Audited utilization statements	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

The central library has key features like Integrated Library Management System (ILMS) which is very much useful to the students and faculty. With the introduction of ILMS software 'EZ library' in the College Central Library, one can easily sift out the book; subject wise, title wise, author wise and publisher wise. At least one copy of every title is kept in the reference section and the recently purchased books are available in "New Arrivals". The information like issues, returns, reservations, renewals etc. can easily be obtained. Every book is given a barcode based Online Public Access Cataloguing System (OPAC) which is helpful to search the book availability and its location in the library. The ILMS system provides a better and efficient service to the students and faculty members.

CC cameras have been placed at strategic points, and the librarian can monitor the entire library from his/her seat. The central library also includes digital library with 11 computer terminals with 40 Mbps internet facility for the students and faculty members to access online journals, books and NPTEL lectures. The digital library is a member of DELNET through which one can easily access e-books and e-journals which is very useful to the students.

Library is kept open from 8:00 AM to 8:00 PM on every working day and 9:00 AM to 1:00 PM on Sunday and other holydays. Researchers and faculty members utilize all the facilities in the central library.

SOFTWARE USED

Name Of The Software	EZ LIBRARY
Nature Of Automation	FULLY AUTOMATED WITH EZ SOFTWARE INCLUDING BAR CODE S
Version	V10.0.9.19-EZ LIBRARY
Year Of Automation	2008
Configuration	WWW.VOLKSOFTECH.COM

EZ library server configurations are as follows:

- Processor Intel (R) Xenon (P) X 3430
- Hard disk capacity 250GB
- Speed 2.4 GHz
- RAM capacity 8GB
- Server name IBM X3200M3
- Version V 10.0.9.19-EZ library.

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

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

The central library is a knowledge hub containing a wide variety of books ranging from history, religion to ancient Indian science and technology. The significant feature of the library is evident by its broad collection of books being procured for the outreach of the students. The collection comprises a varied variety of topics enlisted below;

1] Inspirational and Personality development Books: These books helps the students develop a positive attitude in life. They also groom an individual and help him/her make a mark of his/her own.

2] Books on Communication and other Soft skills: Soft skills play a vital role in bridging the gap between the industry and institution. One has to acquire these skills to make oneself employable and industry ready. Hence good numbers of books in this category are made available to the student community.

3] General Books: The library has a reserve of general books on civilization, economy, industry, archaeology, arts, governance etc., which kindle an interest among the students to know about their country. In a way, it also motivates the student folk to know about other countries. These general books can be an aid for the students who aspire to attend the competitive exams in future.

4] Books on religion and spirituality: Books on different religions are helpful in a way to extend a spiritual guidance to the students in the global world. These can be a support to impart an ethical education and can be a part of counseling for the students in the busy world. Studying books on different religions one can find out the commonalities of different religions which inculcate communal harmony among students. This section covers the topics on hymns of saints, life of Buddha and Mahavira, Ramayana, Mahabharata, Bible and Quran.

5] Books on History: There is a collection of books related to Indian history which cover the topics on ancient, medieval and modern history of India including the freedom struggle. These books provide an opportunity for the students to keep themselves abreast of their traditions, culture and struggle for freedom. This collection of books can be an aid to the students who opt for history in civil service examinations.

6] Books on Ancient Science: A stockpile of books on Indian ancient science are available in the library. They are on Vedic grammar, Vedic mathematics, Meta physics, ancient science, ancient Hindu culture; Indian astronomy etc. These books constitute a very rare collection and provide the student folk with the knowledge of their ancient India. The science followed by the ancient Indians can make the students come up with an innovative scientific approach.

7] Books on Yoga and Meditation: The collection of books on yoga and meditation helps the students to maintain physical and psychological fitness by providing tips on yoga and meditation. Yoga and meditation helps the present day youth to overcome stress in education and in their lifestyle. It acts as a factor that boosts their strengths to achieve success in professional life.

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

4.2.3 Does the institution have the following:

- 1.e-journals
- 2.e-ShodhSindhu
- 3.Shodhganga Membership
- 4.e-books
- 5.Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A. Any 4 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc	View Document
Any additional information	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)**Response:** 2.71

4.2.4.1 Annual expenditure for purchase of books and journals year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
1.44	1.11	1.26	3.47	6.26

File Description**Document**

Details of annual expenditure for purchase of books and journals during the last five years

[View Document](#)

Audited statements of accounts

[View Document](#)**4.2.5 Availability of remote access to e-resources of the library****Response:** Yes**File Description****Document**

Any additional information

[View Document](#)**4.2.6 Percentage per day usage of library by teachers and students****Response:** 9.27

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 125

File Description**Document**

Any additional information

[View Document](#)**4.3 IT Infrastructure****4.3.1 Institution frequently updates its IT facilities including Wi-Fi****Response:**

Swarnandhra Institute of Engineering and Technology (SIET) has a policy to establish and update IT

facilities to promote ICT activities in teaching-learning process and extensive mobility for Research.

The institution has a total of 406 computer systems and servers with different configurations.

Computers and other IT facilities are being updated from time to time or as and when the need arises.

The institution has a 50 MBPS leased line internet connection. The institution provides a free access of Wi-Fi to the students and staff to work on their academics and research projects.

Some of the ICT facilities are:

1. All the departments are equipped with LCD projectors, printers, scanners and upgraded with latest software tools to promote ICT infrastructure.

1. The institution administrative block, departments and laboratories are connected with Local Area Network (LAN) with Wi-Fi facility.

1. Institution has IT infrastructure enabled seminar halls and each department has separate e-classroom to foster a better teaching learning experience.

1. Interactive boards are provided to aid the students in better understanding the subject and improving their logical and analytical capabilities.

The student computer ratio is given hereunder.

Course		2013-14	2014-15	2015-16	2016-17
UG	Total no. of students	1109	987	1091	1243
	Total no. of systems	346	346	346	346
	Student computer ratio	3.2	2.8	3.1	3.5
PG	Total no. of students	83	97	106	76
	Total no. of systems	60	60	60	60
	Student computer ratio	1.38	1.62	1.77	1.27

File Description	Document
Any additional information	View Document

4.3.2 Student - Computer ratio**Response:** 3.04**4.3.3 Available bandwidth of internet connection in the Institution (Lease line)****>=50 MBPS****35-50 MBPS****20-35 MBPS****5-20 MBPS****Response:** >=50 MBPS

File Description	Document
Any additional information	View Document

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)**Response:** No

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	View Document

4.4 Maintenance of Campus Infrastructure**4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years****Response:** 17.93

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year-wise during the last five years (INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
79.43	109.68	71.27	37.18	31.06

File Description	Document
Details about assigned budget and expenditure on physical facilities and academic facilities	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.

Response:

Routine and periodic maintenance of the infrastructural facilities are being carried out by the maintenance department headed by the estate officer consisting of supervisors, electricians, plumbers, carpenters, painters, masons, gardeners and a good number of supporting staff. This department takes care of regular and periodic maintenance like sweeping, repairing, gardening, cleaning, plumbing, painting, etc.

Solar Power plant:

An eco-friendly renewable energy source of 400KWP solar power plant worth Rs. 13.5 million has been established by 'The Vasista Educational Society' to meet the power requirements of Swarnandhra group of engineering colleges wherein 140 KWP solar power has been earmarked for SIET. Photo-voltaic (PV) solar panels have been installed on the top of various buildings of SIET. The power generated by the solar plant is directly connected to the grid of Andhra Pradesh Transmission Corporation limited (APTRANSCO). The supplier of solar power equipment takes care of the maintenance of the entire solar plant.

LED lights:

Conventional fluorescent street lamps have been replaced by eco-friendly and extremely energy efficient LED lamps. All the fluorescent tube lights in the hostels have been replaced by LED tube lights. Fluorescent tube lights are being replaced by cost-efficient LED lamps in labs, class-rooms, corridors etc., in a phased manner.

Laboratories:

Preventive maintenance plan is followed in laboratories. Periodical checkups and calibration of equipment in all laboratories take place at regular intervals. The repairs and servicing of the equipment is done by the Lab technicians and concerned technical persons under the supervision of lab in-charges. Stock verification is conducted in all laboratories every year. With the prior permission from principal and HOD laboratories are kept open on Sundays also for the students to complete their pending work and project.

Library:

The maintenance of library includes shelving, shifting, sorting, binding, searching for missing items and preservation. The stock verification (internal auditing) of the library is done once in a year. Pest control treatment is given once in every six months. The librarian calls for the requirement of books from the departments well before the commencement of every semester and he/she places order depending on the indent given by the faculty. The librarian also takes care of the necessary subscriptions/renewals of DELNET (for e-books and e-journals), magazines, journals, news papers etc. Though the college works from 9 AM to 4.30 PM, the library is kept open from 8 AM to 8 PM on all working days and from 9 AM to 1.00 PM in order to extend its services.

Sports and Games:

A proper record is maintained with regard to the equipment and other sports material by physical director. The sports department takes care of the maintenance of main courts and playing courts in the hostels. A special trainer is engaged to train the students in self defense/ marshal arts for both boys and girls.

Students who are interested in sports and games are given special training by outside trainers along with the Physical Education Department staff. Many a student received awards at State level, National level and International level as well by making use of the facilities in the college to the optimum level. One of our students Mr. V. Mahesh Babu has won the Gold Medal in Discus throw in International Student Olympics held at Colombo, Sri Lanka in July, 2017. Our students have won the Gold Medal in Cricket in International Student Olympics held at Colombo, Sri Lanka during 21st July, 2018 to 25th July, 2018.

Hostels:

Institution has separate hostel facility for boys and girls. The superintendent and hostel wardens look after the maintenance of the hostels and mess assuring the quality and hygiene in the surroundings. Systematic and well organized management principles are applied for the student to maintain time, discipline in the hostels.

Transport:

The institution operates 24 buses for day scholars which ply on different routes within a radius of 40 km. The college also has an ambulance facility. The transport department consisting of a transport incharge, assistant transport incharge, 2 mechanics, two supervising staff, bus drivers and cleaners takes care of regular and periodic maintenance of the buses. Top priority is given to the safety of the students. Every bus has a first aid kit and fire extinguisher and is fitted with a speed governor to control the speed of the bus. Fitness certificate is obtained for every bus from RTA (Road Transport Authority) in the beginning of every academic year. The transport department also takes care of the maintenance of ambulance, trucks and other college vehicles.

Complaints register:

A complaint register is being maintained by the office superintendent (OS) in which any staff member or student can lodge a complaint like malfunction of a fan in a class room. The OS in turn informs the concerned person and see that the problem gets rectified.

Rain water harvesting:

The institution has several soak pits at different places to harvest the rain water for improving ground water level. The maintenance department periodically checks and cleans the soak pits especially in the rainy season.

Computer Systems Maintenance:

There is a group of system maintenance committee, headed by the Principal, with a mandate to recommend to the management the need for upgrading existing machines, replacing the obsolete ones with new ones, maintenance of the networking system, purchase of accessories such as switches, routers,

Printers etc. System administrator and team of technicians look after the daily maintenance of software, hardware, internet and Wi-Fi as regards bandwidth allocation, sharing etc.

CCTV surveillance system: The whole campus is under CC TV surveillance system monitored by the principal.

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

Criterion 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 the last five years

Response: 80.18

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

2017-18	2016-17	2015-16	2014-15	2013-14
1009	1079	966	846	938

File Description	Document
Upload self attested letter with the list of students sanctioned scholarships	View Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	View Document
Any additional information	View Document

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 20.53

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
491	402	203	137	34

File Description	Document
Any additional information	View Document

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling
3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Details of capability enhancement and development schemes	View Document
Any additional information	View Document
Link to Institutional website	View Document

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 13.47

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

2017-18	2016-17	2015-16	2014-15	2013-14
192	216	136	152	120

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 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years**Response:** 78.38

5.1.5.1 Number of students attending VET year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1171	1060	775	905	817

File Description**Document**

Details of the students benefited by VET

[View Document](#)

Any additional information

[View Document](#)**5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases****Response:** Yes**File Description****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****Response:** 45.67

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

2017-18	2016-17	2015-16	2014-15	2013-14
178	212	130	142	113

File Description	Document
Self attested list of students placed	View Document
Details of student placement during the last five years	View Document
Any additional information	View Document

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 2.45

5.2.2.1 Number of outgoing students progressing to higher education

Response: 8

File Description	Document
Upload supporting data for student/alumni	View Document
Details of student progression to higher education	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: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 66.14

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil services/ State government examinations) year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
14	04	06	10	07

5.2.3.2 Number of students who have appeared for the exams year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
17	10	09	24	07

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	View Document
Any additional information	View Document

5.3 Student Participation and Activities

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

Response: 22

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

2017-18	2016-17	2015-16	2014-15	2013-14
8	13	0	1	0

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	View Document
e-copies of award letters and certificates	View Document
Any additional information	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

IQAC: In pursuance of the National Action Plan of the National Assessment and Accreditation Council (NAAC), Bangalore, for performance evaluation, assessment and accreditation and quality up-gradation of institutions of higher education, it is essential that an Internal Quality Assurance Cell (IQAC) as a quality sustenance measure has to be established. Hence, Swarnandhra Institute of Engineering & Technology (SIET) established the IQAC cell in the year 2011, to develop a quality system for conscious, consistent and programmed action to improve the academic and administrative performance of the institution and to promote measures for driving institutional functioning towards quality enhancement and

institutionalization of best practices.

Grievances& Redressal Cell: To develop a responsive and accountable attitude among all the stakeholders in order to maintain a harmonious atmosphere in the institute. The students and their parents are ought to lodge their grievances with their respective class teachers / HoDs and Staff members can address their concerns to the Principal which in turn will be referred to the committee for necessary action.

WOMEN'S GRIEVANCE CELL: The cell strives to protect/promote the self-esteem and confidence of the Women faculty and girl students by creating social awareness about their wellbeing and by amicably solving the complaints received.

ANTI RAGGING COMMITTEE: College has taken all the necessary precautions to prevent ragging and to ensure a 100% ragging-free campus. Staff, students and their parents along with the Sub-inspector of Police look into any matters related to ragging that might happen within or outside college premises.

DISCIPLINARY COMMITTEE: Helps to maintain excellence in educational standards and to promote social harmony among students in the campus. The committee will take an appropriate action as deemed fit in exigencies to protect and maintain general discipline, prestige and standards of the college.

CLASS REPRESENTATIVES/ STUDENT COUNCIL COMMITTEE: Helps in maintaining the quality of education in the campus by monitoring and reporting the day-to day activities such as classwork, co-curricular activities and extracurricular activities to their respective class teachers/HoDs. Members will identify the academically and financially weak students and inform the same to the class teachers so that further support can be extended to the needy.

SC / ST COMMITTEE promotes the special interest of SC/ST students and provides them special inputs in areas where they experience difficulty. The cell regularly conducts meetings with students to attend to their personal, social and academic problems.

HOSTEL & FOOD COMMITTEE The policy decisions regarding hostels is decided by Warden in consultation with the Principal and other committee members. Students are given the freedom to decide on the menu to be served and discrepancies if any can be reported which will be solved amicably in a few days time.

TRANSPORT COMMITTEE The College owns 24 buses, one TATA ACE Auto and an ambulance. The convenor of the committee takes care of the smooth operation of buses. The committee meets once in Six months with the Principal to solve the pending issues.

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

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 5.6

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
6	8	3	6	5

File Description	Document
Number of sports and cultural activities / competitions organised per year	View Document
Any additional information	View Document

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

The alumni association is one of the stakeholders of the Swarnandhra Institute of Engineering and Technology (SIET). They contribute immensely to the development of the college in multiple dimensions. SIET conducts Alumni meeting every year. Alumni have contributed immensely by delivering Guest lectures, offering Intern-ships, assisting in Placements, organizing Industry visits and assisting students to get admissions into reputed Universities Abroad.

Mentoring services have been provided by the Alumni to the students by holding one to one interaction with the students. They have become influential in making the students understand the industry institute gap and also the way to plan and shape up one's own career in right direction. SIET Alumni making the students to understand various business opportunities and are providing all the support required for preparing them to become entrepreneurs and to know the current dynamics of the industry. Alumni profiles and their growth verticals are being showcased to the present students for guidance. Alumni are influential in introducing the outcome based education and nurturing professionalism and Industry-readiness among the students. Alumni are reviewed and suggested various certification programmes relevant to the industry They recommended moderating the delivery of Academics such as experiential learning. Their contribution leads to a change from a faculty-centered learning to a student-centered learning. Alumni working at reputed organizations are also helping the outgoing students in their internships. Alumni are providing necessary support and encouragement to develop quality standards that could be used to enhance and raise the quality of delivery of the educational system.

Alumni are also sponsoring games kits and other educational material as part of the social outreach to the nearby schools.

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

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

? 5 Lakhs

4 Lakhs - 5 Lakhs

3 Lakhs - 4 Lakhs

1 Lakh - 3 Lakhs

Response: <1 Lakh

File Description	Document
Any additional information	View Document
Alumni association audited statements	View Document

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 5

5.4.3.1 Number of Alumni Association /Chapters meetings held year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
1	1	1	1	1

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years	View Document
Any additional information	View Document
Report of the event	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

The Vasista Educational Society, Narsapur, W. G. Dt., Andhra Pradesh was established in 2001 by technocrats and architects. The society has initiated an institution by name, “**SWARNANDHRA INSTITUTE OF ENGINEERING AND TECHNOLOGY (SIET)**”, in 2007 at Seetharampuram, Narsapur, W. G. Dt., A.P. to provide quality technical education to students hailing from both the rural and urban areas to evolve them into dynamic professionals.

Swarnandhra Institute of Engineering And Technology is in its twelfth year of existence with successful functioning in the areas of teaching, learning, evaluation, research, career planning, training and placement. The college is making rapid strides in the field of technical education and has emerged as a reputed institute in the Jawaharlal Nehru Technological University, Kakinada, Andhra Pradesh region. The college is accredited by NAAC in 2014 with ‘A’ grade with 3.04 CGPA.

The college is surrounded by mango orchards in the lush green environment. Nearest airport is Rajahmundry at 60 Kms and the nearest railway station is Narsapur which is 6 Kms from the college. The college is well connected by road.

VISION:

To provide the society with a centre of learning that motivates, supports and encourages the youth to evolve into dynamic professionals.

MISSION:

- Achieving self-sufficiency on all fronts to ensure qualitative teaching-learning practices.
- Providing quality education, student-centered teaching learning processes and state-of-the-art infrastructure for professional aspirants hailing from both rural and urban areas.
- Imparting technical education that encourages independent thinking, develops strong domain knowledge, hones contemporary skills and positive attitudes towards holistic growth of young minds.
- Evolving this organization into a centre of academic and research excellence.

GOVERNANCE:

The governance in Swarnandhra Institute of Engineering and Technology is based on the vision statement i. e., to provide educational opportunities to the students satisfying the statutory requirements from time-to-time. It is based on the equity and objectivity in the application of rules and procedures which are developed and applied without favor or discrimination. The duties and responsibilities are well defined for

the position in the organizational structure.

All the policies of the management are transparent and logical. The policy planning involves all levels of employees to make it acceptable and work accordingly.

Perspective plan:

The perspective plan for next five years includes

- Continuing the status of accreditation.
- To get permanent affiliation from JNTUK.
- To establish Research and Innovation Centre.
- To have startups and collaborations for higher studies and placements.
- To improve consultancy services.

Participation of teachers in decision making:

Participation of faculty members is seen in various decision making bodies like governing body, institute advisory committee, disciplinary committee etc. of the institution.

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

6.1.2 The institution practices decentralization and participative management

Response:

The institute follows decentralized governance system. All the departments of the institution function under the direct supervision of Principal. Heads of the departments take care of the academic activities daily. Administrative office, examination section, central library, all undergraduate and postgraduate departments function under the direct supervision of Principal.

The head of the department decides on subject allocation, time table, organizing guest lectures and workshops, recommending necessary industrial visits, etc. All HODs involve in decision making in all policy matters. All the HODs are the members of College Academic Committee. All the HODs are given contingency fund of Rs. 5000/-. They are given the liberty at the department level to spend money on the procurement of consumables.

Faculty are nominated as members in the governing body which is the highest decision making body. College encourages faculty and students to share their knowledge through discussions, presentations and seminars. The college promotes participative management which enables staff and students to voice their opinions and suggestions which are considered for improvement.

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

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

The institution has formally stated strategic plan. The strategic plan is to develop the quality of education in line with vision and mission of the institution. The plan is reviewed from time to time, obtaining feedback from stakeholders and various academic and administrative bodies.

The quality policy of SIET is

- To stride towards excellence by imparting training and instructions of international standards in an environment conducive for effective teaching and learning processes with a goal to develop the organization as a trend setter in the academic field and as a centre of excellence with emphasis on knowledge vision and conduct.
- To synthesize and analyze the potential needs of the society and global market and to mould urban and rural youth to practice engineering profession with confidence, courage, competence and integrity for achieving universal acceptance.

From the academic year 2016-17, Outcome Based Education (OBE) and Experiential learning is implemented in the institution. The Internal Quality Assurance Cell (IQAC) formulates processes to ensure quality outcome taking into account the vision and mission of the institution.

The institution has prominent resources like

- Well qualified and experienced faculty members.
- State-of-the-art central library.
- Good infrastructure with well-equipped laboratories and computer centre.
- Training and placement cell.

The strategic plan of the institute for the next five years includes:

- To get accreditation of NAAC by 2019.
- To get accreditation of NBA by 2022.
- To introduce courses relevant to the latest technology.
- To establish Research and Innovation Centre.
- To establish a centre of excellence in cognitive sciences like Artificial Intelligence and Deep Learning.

The following major deployments have been taken place after the accreditation:

- OBE based teaching-learning processes
- Recognized NPTEL as Local Chapter
- Introduced two M. Tech courses: Thermal Engineering and Communication Systems
- Introduced two courses in Diploma programs: DEEE and DME

File Description	Document
Strategic Plan and deployment documents on the website	View Document
Link for Additional Information	View Document

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

The college has well designed internal organizational structure for decision making process and has efficient internal coordination and monitoring systems. In view of educational needs and demands of the nation in general and beneficiaries of the institution in particular, the goals are set through collaborative and collective efforts of various components of the institution.

The governing body occupies the top most place in the hierarchy of the organizational structure, which designs the academic and administrative policies. The annual budget is discussed and approved by it. The decisions taken by the governing body are communicated through the principal to the faculty and students. The governing body frames and approves the service rules, recruitment and promotional policies.

The College Academic Committee is headed by the Secretary and Correspondent. The Principal and the heads of the department etc. are the other members of the committee. It considers the recommendation of the Academic Council, JNTUK regarding the examinations, courses of study and syllabi of various programmes.

The other committees like College Advisory Committee, Grievances Redressal Cell, Finance Committee, IQAC, Library Committee, Anti-ragging committee etc. work under the guidance of the Principal. The intellectual and infrastructural resources are readily made available for the heads of the departments and the teachers concerned to carry out the teaching-learning process effectively. There is a democratic setup in the college wherein freedom is given to innovate and plan perspectives of development which in turn operates through a structured organization for smooth and disciplined functioning of the system.

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

6.2.3 Implementation of e-governance in areas of operation

- 1.Planning and Development
- 2.Administration
- 3.Finance and Accounts
- 4.Student Admission and Support
- 5.Examination

- A. All 5 of the above
- B. Any 4 of the above
- C. Any 3 of the above
- D. Any 2 of the above

Response: C. Any 3 of the above

File Description	Document
Screen shots of user interfaces	View Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	View Document
Any additional information	View Document

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

Below are the minutes of the meeting of Anti-Ragging Committee held on 14-06-2018 at 2.30 PM in the Principal chamber to review and strengthen the measures to curb the menace of ragging in the college for the academic year 2018-19:

1. It was discussed by the committee to conduct more awareness programmes to the senior students to create awareness regarding the legal consequences if any, in disciplinary activities take place. If any incident of ragging of senior students comes to the notice of any member of above Committee or any other member of the teaching or non-teaching staff, it should immediately be brought to the notice of the

committee.

2. It was also decided to keep keen watch on the activities of the students, especially during lunch hours/break time and also when they go back to their hostels.

3. It was discussed to take preventive measures like motivating and monitoring students, separate mess timings for seniors and junior students, awareness programmes to the students to prohibit them from indulging in disciplinary activities.

4. It was also decided that first year students should be kept separately from senior students by maintaining separate timings in mess and for academic classes in an individual block to make the campus zero ragging as the interaction between seniors and juniors is minimal.

5. It is discussed to review the steps taken by the anti-ragging committee and anti-ragging squads and also further steps to be taken in future to make campus zero ragging.

The committee is successfully working and organized many awareness programmes for senior students on legal consequences, identified and kept close observation of sensitive places. The committee is also taking measures to prohibit students from indulging in disciplinary activities by installing cameras all over the campus. Class work is conducted in an individual block for first year students. Separate timings were maintained for lunch and break for junior students.

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

6.3 Faculty Empowerment Strategies

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

Response:

Welfare measures for teaching and non-teaching members are not only for the development of staff but also for the organization. Swarnandhra Institute of Engineering Technology offers various schemes to all the employees with the motive to promote the efficiency and efficacy.

Following are the welfare measures provided to teaching and non-teaching staff by the institution:

1. Employees Provident Fund as per PF rules

Keeping in view the future safety of employees, the institution contributes specific amount towards provident fund of an employee as per PF rules.

2. Group Insurance for staff members

The college offers affordable group insurance to all employees that is uniform in nature, offering the same benefits.

3. Maternity Leave

A pregnant woman employee in our college is entitled to avail a maximum of 90 days full paid maternity leave. The employees will be normally paid on the same date as their salary would be paid.

4. Fee concession policy to staff children

This policy aims to promote education of wards of the staff. Tuition fee concession will be given to the wards of staff who are studying in this institution.

5. Encashment of Earned Leaves

Employee in the institution is eligible to avail 10 earned leaves after completion of every year. These earned leaves are accumulated in the employees account and can be en-cashed as per the institute service rules.

6. Fee concession for Bus Transportation

Fee concession scheme is being implemented for the staff travelling in college buses. The scheme is applicable to all teaching and non-teaching staff.

7. Support to staff for higher education /research

Sponsorship is provided to the faculty members to pursue research degrees and leave will be granted to pursue research, to ensure and encourage the faculty in knowledge up gradation.

8. Support to staff for attending workshops /conferences

Faculty members are encouraged to participate in Conferences / Workshops to enhance their quality in academics and to help pursue their research by giving the sponsorships from the institution.

9. Awards

Cash awards are given to faculty in recognition to outstanding contributions in paper publications in reputed journals.

10. Subsidized food facility

Institution offers subsidized food facility to the staff with a reasonable charge that covers the cost of food, its preparation and service.

11. Subsidised accommodation

Subsidised accommodation is provided to both teaching and non-teaching staff of the institution in the hostels.

File Description	Document
Any additional information	View Document
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

Response: 18.29

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

2017-18	2016-17	2015-16	2014-15	2013-14
30	22	26	27	5

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

Response: 5.6

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

2017-18	2016-17	2015-16	2014-15	2013-14
12	10	5	1	0

File Description	Document
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	View Document
Any additional information	View Document

6.3.4 Average percentage of teachers attending professional development programs viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Program during the last five years

Response: 32.12

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
63	44	44	37	5

File Description	Document
Details of teachers attending professional development programs during the last five years	View Document
Any additional information	View Document

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

The institution has performance based appraisal system for the assessment of teaching and non-teaching staff. The appraisal report is based on the annual performance of the employees on the basis of their academic, research and other extra- curricular activities.

Performance appraisal system for teaching staff:

The teacher, as a person and teacher as performer, is also one of the mandatory assessment for his/her performance is appraised through his/her implementation of innovative methodologies in classroom lectures, seminars, tutorials, course delivery, question paper setting and evaluation, updating of materials etc. Besides, student feedback and pass percentage of the course are also considered.

The performance of the faculty is evaluated based on professional contribution to academics, contribution to short term training courses, performing invigilation duties, contribution to College administrative bodies such as college academic council, R&D council, planning and development committee, NBA, NAAC,

etc...

Financial support to the faculty is rendered with the motive to enhance or upgrade their knowledge through their participation in conferences, workshops; publications in Scopus indexed journals, book publication, sponsored projects consultancy, research supervision, awards, honours, fellowships etc.

The above set performance appraisal report is filled by employee in a given prescribed proforma which includes all the above set related to points and sub points. Filled in the prescribed format is revised by HOD to assess the attitudinal / behavioural / professional aspects of the faculty concerned.

Performance appraisal system for non- teaching staff:

A few strategies are observed in appraising the performance of non-teaching. This includes technical contribution of individuals such as subject knowledge, awareness, productivity, quality, innovation, willingness to learn, diligence, etc., besides they also assess the behavioural aspects like group behaviour, acceptability, punctuality etc.

File Description	Document
Any additional information	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

To ensure financial compliance, the institution has established a mechanism for conducting internal and external audits every year. Internal audit is conducted half yearly by the internal financial committee which thoroughly verifies the income and expenditure details. The internal audit report is submitted to the management through the Principal External audit is conducted once in every year by the external agency.

To monitor effective and efficient use of financial resources Principal submits a proposal on budget allocation by taking into consideration the recommendations made by the heads of the departments. The proposals are made such as laboratory equipment, library expenses, salary payments, building infrastructure etc., Expenses will be monitored by the accounts department as per the budget allocated by the management.

Process of Internal Audit

The internal financial committee audits all the vouchers on half yearly basis. The bills and vouchers are thoroughly checked. If any discrepancy is found, the same is brought to the notice of the Principal.

Process of External Audit

A Chartered accountant audits the accounts of the college as per the government rules. The auditor checks

whether all payments are duly authorized after the audit and the management reviews the report. There are no major audit objections during the past years. A transparency is being maintained and adherence to financial discipline to avoid defalcation of funds or properties of the institution at all levels is exhibited. The audited statement is duly signed by the authorities of the management and chartered accountant.

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

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

Response: 2.85

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

2017-18	2016-17	2015-16	2014-15	2013-14
1.2	0.65	1.00	0	0

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

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

Response:

Response:

The Institution is a self financed institution, where the funds are generated through tuition fee, admission fee, special fee, non refundable caution deposits and accreditation fee paid by the students. The Institution has well defined mechanism to monitor effective utilization of available financial resources for the development. Principal prepares the institutional budget every year by taking into consideration recurring and nonrecurring expenditures. All the administrative, academic heads, coordinators of different cells viz, R&D cell, exam cell, NSS cell etc. are instructed to submit their budget to the Principal for the subsequent financial year. All the major financial issues are taken by the management and governing body.

Utilization of funds

Adherence to the utilization of the budget approved by the management is seen in the institution. The purchase committee initiates the purchasing process by placing the purchase orders after the negotiations. The payments are released after delivery of the respective goods. All transactions are transparent through bills and vouchers. The bill payments are passed after verification of items.

File Description	Document
Any additional information	View Document
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

Response:

In pursuance of the National Action Plan of the National Assessment and Accreditation Council (NAAC), Bangalore, for performance evaluation, assessment and accreditation and quality upgradation of institutions of higher education, it is essential that an Internal Quality Assurance Cell (IQAC) as a quality sustenance measure has to be established. Hence, Swarnandhra Institute of Engineering and Technology (SIET) has established the IQAC cell in the year 2011. Since quality enhancement is a continuous process, the IQAC becomes a part of institution and works towards realizing the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the performance of the institution. The IQAC will make a significant and meaningful contribution to post-accreditation phase of SIET. The IQAC channelizes the efforts and takes appropriate measures to address the issues raised in the earlier cycle and measures to be taken by the institution to reach its ultimate goal of academic excellence.

Objectives of IQAC

- To develop a quality system for conscious, consistent and programmed action to improve the academic and administrative performance of the institution.
- To promote measures for driving institutional functioning towards quality enhancement and institutionalization of best practices.

Strategies of IQAC

1. Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks.
2. The relevance and quality of academic and research programmes.
3. Equitable access to and affordability of academic programmes for various sections of society.

4. Optimization and integration of modern methods of teaching and learning.
5. The credibility of evaluation procedures.
6. Ensuring the adequacy, maintenance and functioning of the support structure and services.
7. Research sharing and networking with other institutions in India and abroad.

IQAC has contributed significantly for institutionalizing the quality assurance strategies and processes, the following two practices are the results of IQAC initiatives

1. Study Hours

Swarnandhra Institute of Engineering and Technology (SIET) has started conducting study hours by which the students can improve their academics. Individual attention is paid to the students to clarify their doubts in difficult subjects. More emphasis is given to solve the numeric problems and experts are invited for further acquisition of knowledge.

2. Collaborative Learning

The institution implements the process of collaborative learning to impart quality technical education to the students. It involves groups of students working together to solve a problem, completes a task, or creates a product. It is based on the idea that learning is a natural and social act in which the participants talk among themselves.

File Description	Document
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

Response:

IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- The IQAC organizes regular academic audits to ensure effective implementation of teaching learning process and maintenance of course files.
- Verification of internal test analysis, question papers.
- Arrangement of special classes for weak students during evening hours.
- Identifying the new processes/delivery method and recommending the same for improving the quality. Analyzing the deviations from the benchmarks and reporting.

- Feedback from the stakeholders (students, alumni, industry experts, research organizations and parents).
- Encouraging faculty for online certification Courses (NPTEL, MOOCS, etc.)
- Faculty Development Programs and Skill Development Training Programs are organized every year.

Reviews and Implementations of Teaching-Learning Reforms through IQAC:

1. Guest lectures on advanced topics by the eminent academicians and industry experts.
2. Practice of emerging technologies through mini projects and term papers.
3. Faculty development through workshops, orientation programs, seminars and conferences.

File Description	Document
Link for Additional Information	View Document

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 4

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	6	4	3	3

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	View Document
IQAC link	View Document

6.5.4 Quality assurance initiatives of the institution include:

1. Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements

2.Academic Administrative Audit (AAA) and initiation of follow up action**3.Participation in NIRF****4.ISO Certification****5.NBA or any other quality audit****A. Any 4 of the above****B. Any 3 of the above****C. Any 2 of the above****D. Any 1 of the above****Response:** B. Any 3 of the above

File Description	Document
e-copies of the accreditations and certifications	View Document
Details of Quality assurance initiatives of the institution	View Document
Annual reports of institution	View Document

6.5.5 Incremental improvements made during the preceding five years (in case of first cycle) Post accreditation quality initiatives (second and subsequent cycles)**Response:**

Swarnandhra Institute of Engineering and Technology (SIET) is approved by AICTE, New Delhi and is affiliated to JNTUK, Kakinada. The institution got accredited by NAAC with 'A' Grade for the first time in 2014, with a score of 3.04/4.0 CGPA.

The institution continuously strives to improve and sustain quality in all the aspects of education. The Governing Body, College Academic Council, IQAC, Principal, teaching fraternity, administration, Non teaching staff (both technical and non technical) students and other stake holders jointly contribute towards making the college as an institution of excellence. Two PG M.Tech courses in Thermal Engineering and Communication Systems are introduced in the year 2014. The college is actively engaged with APSSDC in imparting various certification programs relevant to the industry.

The following are the quality initiatives made by the institution during the last 5 years.

Curricular Aspects

Outcome based approach has been implemented in the institution from 2016 onwards. After careful study of the content of the curriculum and syllabi of all the UG/PG programs offered, a set of PEOs, POs, PSOs and COs have been diligently framed for each program/course.

The student shall fulfil the following academic requirements (R16 Regulations)*

- Secure all the 180 credits
- Programme core and elective Courses
- Open elective courses
- Certification courses
- Internship
- Mini project
- Skill based lab elective
- Professional Ethics and Human Values & IPR courses are Mandatory.

Teaching, Learning and Evaluation

- Subject allotment is based on the competency matrix and experience of the teacher. Attainment of the COs, POs and PSOs are the recent additions.
- Faculty/Students are utilizing the NPTEL lectures and e-resources.
- Eminent senior faculty members are appointed to hold key positions.
- Reputed academicians and renowned industry personnel visit the campus to enlighten the faculty and students.
- On-line feedback on each course has been implemented.
- Systematic procedure has been evolved to review the overall performance of the departments annually.
- Faculty / students are getting certified by the APSSDC on latest technologies.

Infrastructure and Learning Resources

- New academic blocks, classrooms, labs, staff cabins and seminar halls have been built.
- The internet bandwidth has been increased with Wi-Fi.
- NPTEL, e-journals, spoken tutorials are being used effectively.
- Advanced software tools have been purchased.

NAAC

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 7

7.1.1.1 Number of gender equity promotion programs organized by the institution year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
2	2	1	1	1

File Description

Document

Report of the event

[View Document](#)

List of gender equity promotion programs organized by the institution

[View Document](#)

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security
2. Counselling
3. Common Room

Response:

1. Institution shows gender sensitivity in providing facilities such as:

1. Safety and Security

- The institution has taken numerous safety and security measures in the campus. 45 CCTV cameras have been installed at prominent places in the campus, including main gate, corridors, cafeteria, all entrances, boys and girls hostels etc.
- The campus is proved to be secure due to its well maintained security system which is outsourced. The security guards are vigilant and present 24x7 at all important locations in the campus and also at the boys and girls hostels.
- Specific rules and regulations about the visitors timings etc. are followed in boys and girls hostels.
- The appointed warden takes care of all the requirements, problems, rules and regulations, in the

hostel.

- Faculty members make surprise visits to hostels during night hours also.
- The college supports anti ragging drive. Anti ragging committee takes care of and keeps an eye on the activities in the college. Anti ragging forms are filled up and submitted by the students and parents.
- The college has a Women Development Cell, Women Redressal Cell and Internal Complaint Committee, which deal with the safety and security of girl students and female staff in the campus. These committees also organize activities to motivate, strengthen and spread awareness about health, nutrition, extension activities etc. among the females in the campus.
- Doctor and nursing assistance to provide medical care is available in the campus in the form of surya hospital.
- It can be stated with due pride that no incidence of sexual harassment against women have occurred in the institute due to good discipline in the campus.

2. Counselling

- Counselling of students is carried out under the Internal Complaint Committee, Women Development Cell and Women Redressal Cell.
- These committees have been formulated to deal with issues related to gender bias, promote gender sensitivity and educate male and female members regarding gender equality.
- Various programs are conducted through these committees, like motivational talks, health related issues, self defense techniques, environment conservation etc.
- Apart from these committees the college has well developed teacher guardian scheme, through which the guardian teacher carries out counseling of students from time to time.
- The teachers counsel and guide the students to inculcate confidence in them. They are motivated to perform better and also to being a good human being. The counseling includes social and ethical aspects too.
- Human and ethical values are so imbibed in the students, that no incidence of misbehavior against women has ever been observed in the campus.

3. Common Room

- The institute provides common rooms for girls and boys separately.

Constant supervision is made by the respective faculty members to make sure the students are utilizing the common room for the factual reasons.

File Description	Document
Any additional information	View Document

7.1.3 Alternate Energy initiatives such as:

1. Percentage of annual power requirement of the Institution met by the renewable energy sources

Response: 28

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 140

7.1.3.2 Total annual power requirement (in KWH)

Response: 500

File Description	Document
Details of power requirement of the Institution met by renewable energy sources	View Document
Any additional information	View Document
Link for Additional Information	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 20.18

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 17731.8

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 87853.8

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document
Any additional information	View Document

7.1.5 Waste Management steps including:

- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

Response:

“**Swachh Bharat Abhiyan**” is a campaign in India started by hon’ble Prime Minister which aims to maintain cleanliness everywhere. In response to this campaign, SIET conducts frequent activities like cleaning of roads, awareness on proper waste disposal etc. The institution is very conscious of generating less waste and recycling it by passing it through a system that enables the used material to be reused ensuring that less natural resources are consumed.

Solid Waste Management:

The solid waste in the campus is disposed in a systematic way. The waste is segregated at each level at the source itself. Dust bins are placed everywhere in the campus. The administrative supervisor in each block ensures that the waste in each floor is collected at designated time intervals. The floor dust bins are emptied into movable containers provided for each block and are taken to the dumping yard within the institution. Segregated food waste, vegetable peels etc are collected from the canteens on the campus and is made compost. Similarly, the garden waste, dry leaves are also used as compost. Recyclable wastes like pet bottles, cartons and worn out stationery are collected which are periodically sold to vendors for recycling.

Liquid Waste Management:

The waste water from various sources is properly diverted towards plants to maintain the greenery in the campus as well as providing ecologically aesthetic environment. Proper drainage system is arranged for all the buildings of the campus. Keeping in view the decrease in ground level water the management thought of storing rain water and constructed water pits to raise ground water levels.

E-waste Management:

All electrical waste such as tube lights, bulbs, old switches, and wires are stored separately in a shed. The house keeping team has been trained in handling all categories of waste. An effective system of segregation, collection, storage, and disposal of waste has been practised in the institution. The Institution has also taken the following steps to reduce the generation of waste. Steel plates are used instead of paper and plastic plates, steel spoons replace of the plastic spoons in the canteen, steel tumblers in place of paper cups. Awareness programmes about waste management are conducted on the campus for students, faculty and housekeeping staff to promote environment friendly practices as part of “Swachh Campus” inspired from “Swachh Bharat”.

Flip flops, memory chips, motherboard, compact discs, cartridges etc generated by electronic equipment

such as computers, radio, TV, phones, printers, Fax and photocopy machines are recycled properly. The e-waste generated from hardware which cannot be reused or recycled is being disposed of centrally to vendors.

File Description	Document
Any additional information	View Document

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

We all know that water is the basis for all living beings on the earth .In countries like India, which depend on rain for its agriculture ,water plays a vital role .During incessant and heavy rains most of the water is being wasted by letting out into the seas and rivers .Therefore rainwater harvesting became necessary which everyone should practice.

Rain Water Storage is a valuable alternative water resource along with more conventional water supply technologies. Rainwater harvesting is one of the scientific methods that can be followed by the institution as well as individuals as a small through value towards water preservation. This decreases pressure on groundwater. Our institution is zero water discharge campus which means that no water is discharged outside the campus and water is used for horticultural activities and flushing the toilets etc.The rain water collected from roads and pavements are flown into soak pits provided at all buildings of the institution and hostels. This ensures the water levels in the bore wells within the institutions are maintained at usable levels.

- An underground drainage system has been established in the campus connecting all the departments, hostels, mess etc., which is used for harvesting mango trees etc.
- There is enough open space and mud paths to harvest the rain water.
- There is enough extent of plantation to reduce evaporative loss and soil erosion.

File Description	Document
Any additional information	View Document

7.1.7 Green Practices

- **Students, staff using**
 - a) **Bicycles**
 - b) **Public Transport**
 - c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

SIET is located in a pollution free environment in the nature's lap which is far away from the urban and industrial area.

Bicycles:

The faculty members and students residing nearby are encouraged to come by bicycles supporting the Prime Minister's initiative "Aao Cycle Chalao".

Student Transport:

All the staff and the students are provided bus transport facility. The institution is well connected with road network. The College owns 24 buses and covers more than 43 kilometers perimeter around the institution. All the buses are provided with first aid box.

Pedestrian friendly roads:

Black top roads are laid in the entire campus covering every nook and corner of it.

Plastic-Free campus:

Use of plastic bags and cups are discouraged in the campus. Even in the canteen usage of leaf plates and paper cups are mandatory.

Paperless Office:

The college has taken keen interest to make the office paperless.

- The accounts/Office and academic information is stored and maintained through computer systems only.
- The complete campus is Wi-Fi enabled, making it much easier for paperless activities.
- The official information and circulars are preferred to be sent through whatsapp application.

Green Landscaping with trees and plants:

The institution spends substantial funds for the maintenance of campus as rich with greenery and well groomed trees. Lawns, garden and avenue trees are maintained on a daily schedule. Trees and shrubs are planted on both sides of roads connecting various blocks. The trees lining the avenues are over 16-17 years. College campus is lush green campus with more than 48% of the area having varieties of plants and trees which include Saraca Asoca (Ashoka), Mango, Neem, Black Plum, Cheeko Trees etc. The entire open area kept green with lawn grass, seasonal flowers and is maintained by professional staff.

Students participate in campaigns like “ Adopt a Tree”, ”Plantation Drive”, ”Awareness against Deforestation”, ”Conserve native species of plants and trees” to educate the masses about the importance of the trees.

Carbon Accounting for lowering the gases responsible for Green House effect: All vehicles entering the institution including institution run buses have “Pollution under Control” certificate. All the HVAC equipment are “Freon Free Gases Emission” certified. Campus strictly follows "No Smoking Zone" principle.

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

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 0.53

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year-wise during the last five years(INR in Lakhs)

2017-18	2016-17	2015-16	2014-15	2013-14
3.52	2.13	1.82	1.32	1.02

File Description	Document
Green audit report	View Document
Details of expenditure on green initiatives and waste management during the last five years	View Document

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. Physical facilities
2. Provision for lift
3. Ramp / Rails
4. Braille Software/facilities
5. Rest Rooms
6. Scribes for examination
7. Special skill development for differently abled students

8. Any other similar facility (Specify)**A. 7 and more of the above****B. At least 6 of the above****C. At least 4 of the above****D. At least 2 of the above****Response:** C. At least 4 of the above

File Description	Document
Resources available in the institution for Divyangjan	View Document
Any additional information	View Document
link to photos and videos of facilities for Divyangjan	View Document

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years**Response:** 8

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	2	1	1	1

File Description	Document
Number of Specific initiatives to address locational advantages and disadvantages	View Document
Any additional information	View Document

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)**Response:** 10

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
3	3	1	2	1

File Description	Document
Report of the event	View Document
Any additional information	View Document

7.1.12

Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

File Description	Document
Any additional information	View Document
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	View Document

7.1.13 Display of core values in the institution and on its website

Response: Yes

File Description	Document
Any additional information	View Document
Provide URL of website that displays core values	View Document

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations

Response: Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	View Document
Any additional information	View Document

7.1.15 The institution offers a course on Human Values and professional ethics

Response: Yes

File Description	Document
Any additional information	View Document
Provide link to Courses on Human Values and professional ethics on Institutional website	View Document

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

File Description	Document
Any additional information	View Document
Provide URL of supporting documents to prove institution functions as per professional code	View Document

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 9

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year-wise during the last five years

2017-18	2016-17	2015-16	2014-15	2013-14
4	1	1	1	2

File Description	Document
List of activities conducted for promotion of universal values	View Document
Any additional information	View Document

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

Swarnandhra Institute of Engineering and Technology aims to inculcate patriotism in the students by celebrating the national festivals in the college campus. The rich and vibrant festivals of India are a testimony to our diverse tradition and culture. Along with traditional culture of India, the institute is aiming to develop the students in National tradition. National Festivals are celebrated with enthusiasm. Our students are on a mission towards better India. They come together breaking the boundaries of religion and caste. Thoughts of great Indian personalities sowed into the young minds through the different programmes conducted on these days.

Every year the college celebrates the following events.

Independence Day: It is annually celebrated on 15th August of every year.

Republic Day: Republic Day honors the date on which the Constitution of India came into effect from 26th January 1950

Engineers Day (Dr. Birthday): The Engineers Day is celebrated to appreciate the contributions of the Dr. Mokshagundam Vishweshwaraya who was born on September 15.

Teachers Day (Dr. Sarvepalli Radhakrishnan Birthday): Teachers Day is the day which is celebrated to honor the teachers. It is celebrated on 5th September in the memory of Dr. Sarvepalli Radhakrishnan.

Gandhi Jayanthi: is a National Festival celebrated to mark the occasion of the birthday of Mohandas Karamchand Gandhi.

Mathematics Day (Sir Srinivasa Ramanujan's Birthday): is observed on December 22 every year. It is celebrated in order to honor the Birth Anniversary of the famous Mathematician Sir Srinivasa Ramanujan.

International Women's Day: This is celebrated on 8th March every year. Celebration of Women's day empower women and unnevel their strengths and enable them to succeed further.

File Description	Document
Any additional information	View Document

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

Financial:

Transparency in financial system is ensured through:

- Details of fee structure of all the courses offered by the institution are on the website.
- Payment of tuition fee, transportation fee etc., can be done through online.
- Salary and other remunerations to employees are disbursed through bank.
- Financial audit is done regularly by external agencies.
- Financial support is available to all faculty for attending national/international conferences.
- Complete audit reports is kept in the website.

URL of audit report is available in institute website: <http://www.swarnandhra.edu.in/2-uncategorised/55-mandatory>

Academic:

- Academic Audit is done regularly by internal and external experts.
- Attendance is posted by the faculty in EZ School after completion of class work. SMSs are sent to the parents for absent students.
- Monthly attendance report is displayed in the notice board and communicated to the parents.

Administrative:

Transparency in administrative functions is ensured through:

- Well specified duties are assigned to staff members.
- Different Committees, Boards, Councils, Forums and Cells are constituted viz., College Academic Comity (CAC), Governance Body (GB), and Research Advice Committee (RAC).
- Well laid down procedures to be following while discharging the regular duties.
- Service rules are available in the website.

URL:<http://swarnandhra.edu.in/committees>

Auxiliary Functions:

Auxiliary functions like conduct of workshops, training programs, seminars, faculty development programmes, conferences, guest lecturers etc., are conducted through the following sequence of procedure:

- Knowing the pulse of the audience
- Following road maps
- Drawing the audience attention.
- Beginning with a clear vision.

- Maintaining the right perspective.
- Taking the initiative and being responsive.
- Speak voraciously.
- Maintaining Institute website.
- Maintaining an agenda for every event.

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

BEST PRACTICE -I

1. Title:

Enhancing Student Skills by using learning tools such as NPTEL and GEMS.

2. Objectives of the Practice:

The objective of the practice is to enhance the knowledge of teacher and student in the modern way. It is to shift the focus of education from Teacher Centric to Learning Centric.

3. The Context:

Country wide accepted NPTEL and GEMS are some of the best practices utilized by our faculty members and students.

◦

Some systems are exclusively provided in our library for accessing to NPTEL lectures/videos. Students and faculty members are encouraged to apply for NPTEL certification courses and improve their knowledge in their respective domains.

◦

GEMS is high impact comprehensive learning solution to impart employability skills to upgrade student career prospects both for employment and higher education.

First year students are given “GLOBARENA COMMUNICATION SKILLS TRAINING“.

4. Practice:

NPTEL is a joint initiative from IITs and IISc to offer online courses and certification in various topics learn for free; Pay a small fee to write an exam and get a certificate conducted in our college.

Coming to Globarena software, students practice online tests in General English, Numerical Ability, Reasoning, etc.

5. Evidence of Success:

Outcome of these practices enables the faculty members to inspire students to generate innovative ideas and implement the same in real time projects that provide solutions for the day-to-day problems of the society.

Students and faculty got certified in various courses.

6. Problems Encountered and Resources Required:

The common challenges involve while practicing as follows:

- Commitment and motivation of the faculty are the most important factors in terms of student success..
- There are some problems in Globarena software at times.

PRACTICE-II

1. Title:

Employability Skills Enhancement Program- an innovative approach

2. Objectives of the Practice:

The objective of this practice is to provide training to the students of all branches during their course of study to enhance their employability skills.

3. The Context:

After graduation, when students enter the engineering profession, in addition to domain knowledge, other skills and abilities such as communication skills, leadership, innovation, team building are very much required to become successful in their profession.

4. The Practice:

The pre-final semester break course was implemented in 90 hours in three weeks continuously by making use of a third party professional trainer.

These sessions include as follows:

- Speaking/writing/reading skills
- Effective active listening skills

5. Evidence of Success:

Following generalized statements can be drawn on the basis of students' feedback.

- Mock interviews and group discussion sessions conducted under this program
- Placements got improved after providing this training. In the current academic year 2018-19 around 221 students out of 396 got placed.

6. Problems Encountered and Resources Required:

- This program needs to be planned beyond the students' regular academic engagements. Hence, it becomes challenging to identify free time-slots for large groups of students.
- Employing professional trainers during the summer break is a challenging task.

File Description	Document
Any additional information	View Document

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

SIET is committed to incite all possible platforms pertaining to Scientific and Technological Learning for not only the professional growth but also for the personal growth of the students by providing transformational teaching and value based education with high standards.

The institution with a motto to achieve academic excellence, promoting quality education under Vasista Educational Society, with incomparable innovations in teaching and learning by empowering the manpower through innovative research and development.

The Educational society with a passion to scatter the fragrance of education entered the educational area with a public school to meet the needs of primary and secondary education, in the year 2007. In succession and with rapid strides, the society established a number of educational courses from UG to PG over a period of 12 years.

Keeping in view, the role of English Communication Skills in mastering the Engineering knowledge and

skills better, the institution has taken utmost care to build fully equipped language laboratories for the benefit of the student community

Students are even encouraged to take up projects concerned with the future of the country. A full freedom is given to the students to design and improve developing the gaming apps. As a result, our cse students developing games.

As Renewable Source of Energy has become the need of the hour, and to combat green house gas emissions, in a move the institution has installed solar panels on the terrace of all its buildings.

To accomplish one of the rejuvenating targets of the institution i.e. to provide excellent placement opportunities to all the students, institution has been conducting Campus Recruitment Training (CRT)

Classes with eminent faculty members, who have great expertise in the area, to train the students for all the levels of the campus recruitment process. Since the beginning of the I Semester, students undergo the training along with the prescribed curriculum. Students are encouraged to participate in Aptitude and Soft Skills related training, Group Discussions, Mock Interviews, Debates, Presentations and Role Plays etc.

On-line learning is a rapidly growing aspect in technical education. To train the students for the future needs, a Digital library is designed with an excellent collection of e-material, in addition to the central library with more than 3433 titles and 26383 volumes and unique department libraries. Architecturally designed digital classrooms, state of art infrastructure, Well-Equipped Laboratories, Spacious seminar halls and conference halls and reading halls.

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

5. CONCLUSION

Additional Information :

The college management strives to provide all the required facilities and support to cater to the needs of students. In recognition, the Swarnandhra group of engineering Colleges are awarded with “Excellence in Academia and Industry Interface” by WORLD HRD CONGRESS in 2013.

Concluding Remarks :

Swarnandhra Institute of Engineering & Technology, a self-financing institution affiliated to Jawaharlal Nehru Technological University Kakinada, is spread over 10.045 acres conducive for learning in serene environs. The institution follows the curriculum and Academic calendars prescribed by the University. Outcome Based Education (OBE) and Experiential learning are implemented in the institution.

The college promotes participative management and has a well designed decentralized internal organizational structure for decision making, coordination and monitoring. Students are represented on academic and administrative bodies of the institution including the Internal Quality Assurance Cell, Anti Ragging, women grievances, Transport etc. The College IQAC makes concerted and continuous efforts by undertaking comprehensive Academic and financial Audit, collecting feedback from alumni, industry, parents, students, teachers and the community to study, analyse and improvise every strategy, activity, process and procedure in all the domains of the institution. The institution has a total of 406 computers connected with 50MBPS dedicated leased line and provides free Wi- Fi to all the students and staff. The library has a very good collection of 3,433 titles and 26,383 volumes. Digital library provides online material, e- journals and e-books from NPTEL, DELNET and other resources.

The institute has tie-ups with leading organizations like APSSDC, APITA, IBM and ICT Academy for specialized trainings on soft skills, coding, personality development, career counselling, placements and entrepreneurship. Several workshops/seminars are conducted on Intellectual Property Rights and Industry-Academia innovative practices to benefit the staff and students.

Faculty and students are encouraged to publish books, papers and news articles by providing sponsorship/incentives. Students participate in social awareness programs through National Service Scheme and do community service through their voluntary organization, “Raindrop”.

The Institution has excellent infrastructure for various indoor and outdoor sports and games. The college hosts a twelve station Gymnasium and other facilities to conduct Yoga Classes and cultural programmes.

As part of the green initiative, our college has made land scaping with trees and plants creating a wonderful microcosm. The college has rain harvesting system, e-waste disposal procedure and a solar rooftop plant with a capacity of 140KWP to conserve the energy.