YEARLY STATUS REPORT - 2020-2021

Part A	
Data of the Institution	
1.Name of the Institution	SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY
• Name of the Head of the institution	Dr S SURESH KUMAR
• Designation	PRINCIPAL
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	08814240588
• Alternate phone No.	8883228722
• Mobile No. (Principal)	9121214503
• Registered e-mail ID (Principal)	principal@swarnandhra.ac.in
• Address	Seetharampuram, Narsapur, Andhra Pradesh 534280, India
• City/Town	NARSAPUR
• State/UT	Andhra Pradesh
• Pin Code	534280
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	19/06/2014
• Type of Institution	Co-education
• Location	Rural

• Financial Status	Self-financing
• Name of the IQAC Co-ordinator/Director	Dr.A.Gopichand
• Phone No.	+917989106066
• Mobile No:	9849434450
• IQAC e-mail ID	scetiqac@gmail.com
3.Website address (Web link of the AQAR (Previous Academic Year)	https://www.swarnandhra.ac.in/images/AQAR/AQAR-2020-21.pdf
4.Was the Academic Calendar prepared for that year?	Yes
• if yes, whether it is uploaded in the Institutional website Web link:	http://exams.swarnandhra.ac.in/academicsschedule.php

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	A	3.32	2013	08/07/2013	31/12/2019

6.Date of Establishment of IQAC	31/01/2013

7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Nil	Nil	Nil	10/06/2020	Nil

8.Provide details regarding the composition of the IQAC:

• Upload the latest notification regarding the composition of the IQAC by the HEI	View File	
9.No. of IQAC meetings held during the year	2	
• Were the minutes of IQAC meeting(s) and compliance to the decisions taken	Yes	

uploaded on the institutional website?		
• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded	
10.Did IQAC receive funding from any funding agency to support its activities during the year?	**No**	
• If yes, mention the amount		

11.Significant contributions made by IQAC during the current year (maximum five bullets)

AQAR Submission

NIRF Submission

Extension of Autonomous Status

Academic and Administrative Audit

Students Satisfaction Survey

12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
To Monitor Teaching Learning process	**Academic Audit is done at the middle and end of the every semester.**

13.Was the AQAR placed before the statutory body?	**Yes**

• Name of the statutory body

Name of the statutory body	Date of meeting(s)
GOVERNING BODY MEETING	**10/03/2021**

14.Was the institutional data submitted to AISHE ?	**Yes**

• Year

Year	Date of Submission
14/05/2021	23/02/2022

Extended Profile

1.Programme

1.1 Number of programmes offered during the year:	15

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1 Total number of students during the year:	3062

File Description	Documents
Institutional data in Prescribed format	View File

2.2 Number of outgoing / final year students during the year:	739

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3 Number of students who appeared for the examinations conducted by the institution during the year:	3081

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1 Number of courses in all programmes during the year:	535

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2 Number of full-time teachers during the year:	**210**

File Description	Documents
Institutional Data in Prescribed Format	View File

3.3 Number of sanctioned posts for the year:	**205**
4.Institution	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	**450**
4.2 Total number of Classrooms and Seminar halls	**72**
4.3 Total number of computers on campus for academic purposes	**1092**
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	**602**

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

- **Step1: A series of faculty meetings are conducted to monitor the Outcome-Based Education (OBE), stated POs, PSOs, and COs are identified and checked in line with the Vision, Mission of the institution and the departments also have a relevance to**

the local/regional/national/global developmental and professional needs.

- **Step2: The curriculum has been revised regularly to meet the professional and industrial needs of the present-day global world on par with a few leading institutions in India and Abroad.**
- **Step3: The institution hosts alumni meetings and takes views and suggestions for the changes required in the curriculum as per the global/local arena.**
- **Step 4: To have the right mixture of curriculum, pedagogy, and assessment to achieve the desired outcomes a meeting of the Board of Studies (BoS) is convened. This body comprises the senior faculty of the department and five experts, one JNTUK nominee, one alumni representative, two from academia and one from the industry.**
- **Step 5: The academic council, headed by the principal, university representatives, comprising of eminent professors, industrial experts and heads of all departments as its members discuss and evaluate the scheme and syllabi and approve the same with necessary modifications.**

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://swarnandhra.ac.in/aqar2021/uploads/1.1%20Curriculum%20Design%20and%20Developmement.pdf

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

7

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

242

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

270

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

13

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

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

The institution incorporates several cross-cutting societal issues into the curriculum. The following are the efforts made by

Swarnandhra College of Engineering and Technology in this direction.

1.Professional Ethics & Intellectual Property Rights

A course on Professional Ethics & Intellectual Property Rights is offered as mandatory to all the students during the programme of study. The issues in professional ethics are analyzed in the context of the right understanding with the main focus on the development of ethical competence in individuals. The course concludes by proposing several salient steps to undertake the journey towards holistic and value-based living.

2. Environment and Sustainability

This course introduces the academic approach of sustainability by covering the general understanding of what constitutes the rates of a renewable resource and non-renewable resource, Environmental Studies, Ecosystems, Pollution, Waste management, and where these processes can be continued indefinitely without sacrificing the needs of future generations. It is a course to equip students in a better way of making informed decisions and taking economically feasible actions that are in the interests of protectingnature. The curriculum provides the opportunity of going through the Environmental Impact Assessment process as well..

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

10

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

1016

File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

55

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

A. All 4 of the above

File Description	Documents
Provide the URL for stakeholders' feedback report	https://swarnandhra.ac.in/feedback.html
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following

A. Feedback collected, analysed and action taken made available on the website

File Description	Documents
Provide URL for stakeholders' feedback report	https://swarnandhra.ac.in/feedback.html
Any additional information	No File Uploaded

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

3061

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

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

839

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Assessment of learning levels of students

Students are categorized as advanced learners and slow learners based on their performance in internal examinations and mentoring. This process is also adopted in the remaining semesters.

Special Programs offered for slow learners

Special Classes

Special Classes are being conducted regularly by the respective faculty members beyond their working hours. Because of the difficulties faced by the slow learners, more emphasis has been given in the form of allotting more time.

Special Programs for advanced learners:

Special coaching is also given to the advanced learners for GATE exam. The faculty members clarify their doubts and make them prepare for the GATE exam.

Bridge Course & Remidial Classes

A bridge course is being conducted in the Mathematical Foundation and Essential of Programming for lateral entry students.

Apart from the above, remedial classes are also being conducted for students who have backlogs.

Mentoring System

To extend a proper guidance, students are assigned to a mentor. The main objective is to keep the track of the progress of the students and accordingly an academic and career guidance have been extended in the form of counseling. Parents are informed timely whenever the necessity arises

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
08/06/2020	3061	210

File Description	Documents
Upload any additional information	View File

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:

Student-centric methods

Experiential Learning:

The institution provides the following opportunities to the students to attain knowledge through experiential learning.

Laboratory

The institution provides a 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 learning experience.

Mini Projects

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

Group projects

Internships

Case studies

Participatory Learning:

Participatory learning makes learning accessible and offers open participation and progression through different stages of achievement. It further establishes a healthy learning environment for the students.

Active Learning:

The students are encouraged to participate actively in activities like pair share, in-class team and Jigsaw which are helpful to the students to sharpen their critical thinking and problem-solving skills.

Learning Management System -Google Classroom and Canvass:

Seminars:

Massive Open Online Courses (MOOCs):

Problem-based Learning:

Students are being given problems from prescribed books and reference books as an assignment. The faculty members interact with the students in a friendly way and explain the difficult topics wheneverrequired and improve their performance.

File Description	Documents
Upload any additional information	View File
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Google Classroom:

The faculty members, as well as students, have been the part of Google classroom. The faculty members share materials, conduct, distribute and grading assignments among students through Google Classroom. It is also helpful to the teaching faculty for monitoring the progress of students.

Canvas:

Canvas is one of the useful LMS which is part of the College. The faculty members of the College use it for grading assignments, conducting quizzes, discussions, and conferences. The students are also actively participated in the programs as mentioned above and respond actively.

MOOCs:

The faculty members and the students of the College have been doing MOOCs like NPTEL and other courses that are helpful to get access to the best of educational content.

Whatsapp:

The faculty members of the College have been encouraging the students to form separate Whatsapp groupsrelating to the concerned subjects for the clarification of the doubts of the students.

Digital library:

Digital library has been provided in the College which provides a sufficient number of computers with internet and Wi-Fi facilities. The digital library is very useful for the students as well as teaching faculty members for going through e-journals and updating their knowledge.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://swarnandhra.ac.in/ictenabledclassrooms.html
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

155

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

The College Academic Committee which includes the Principal, Head of Departments, Senior faculty members, IQAC and Controller of Examinations prepares the Academic Calendar. The Academic Council reviews it and recommends for the revision if requires and approves. It shows the details about the number of instruction weeks to be conducted, details of Mid Examinations, schedule of End theory and practical Examinations, holidays for the semester and also provides an adequate balance between academic and non academic activities. The departments prepare a timetable for the semester based on academic calendar which also includes workshops, conferences, visiting faculty lectures, seminars, industrial visits etc.

Each semester, the faculty prepares a lesson plan which includes the details about the number of hours to be taken for each unit, course

outcomes, delivering methods and reference textbooks, etc. Lesson plans are verified and approved by the Head of the Departments and Principal. Periodically, the Head of the departments and Principal verify the course delivery of the lesson plan and progress of the units covered. Internal Quality Assurance Cell (IQAC) verifies the same and gives suggestions if required.The syllabus of each programme is the basis for preparing the academic calendar and master time table.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

210

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

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

22

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1294

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

21

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

1

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Continuous Internal Examinations (CIE) for U.G and P.G

Semester End Examinations (SEE) for U.G and P.G

Appointment of Question Paper Setters and Examiners:

Selection of Question Paper:

On each day of examination, CCE and CE draw at random one of the sealed covers containing Question Papers (6 Sets) and open the required number of packets of question papers at least one hour before the start of examination.

Semester End Examination for Lab courses and Project Work

1.Semester End Examination for lab shall be conducted as per the examination schedule approved by EC and the guidelines given in academic regulations.

2.For external evaluation of UG project and PG project, external examiner from other college is mandatory.

Supplementary Examinations:

Central Assessment / Evaluation:

Semester End Examination Result:

Results are usually declared within three weeks from the date of the last examination.

Revaluation of Answer books:

Candidates can apply for revaluation of the answer scripts. Revaluation will be done only for Theory subjects.

Integration of IT in Examination System:

Entire Examination Process is automated starting from Registration to result declaration.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	http://www.swarnandhraexambranch.com/Login.aspx?ReturnUrl=%2f

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are

stated and displayed on the website and communicated to teachers and students

The course outcomes are identified as per the content and intent of the course or topics. The course outcomes are planned and designed to cover the entire syllabus and are approved by the Board of Studies.

The POs, PSOs and COs are published in the Curriculum book and departmental website. They are made accessible to all the stakeholders of the program through the website.

Mechanism of Communication

Lesson plans and Course Information Sheets are prepared for every course by the respective faculty and circulated to students. Lesson plan contains COs and the topic in the course to which each CO is mapped to. POs are listed in the Course Information Sheet. The Course Information Sheet also contains the CO-PO mapping matrix. Handouts are circulated also contain respective COs. Even in internal Examinations, it has been made a practice to indicate the Bloom's Taxonomy Level of each question and the CO to which the question is mapped. This is done so as to help in CO attainment computation.

The Programme Outcomes are published in the following: Department website College website Curriculum / syllabus books Display board.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	Nil

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Course Outcome(CO) Attainment :

Step I:

COs for the respective subject are defined by course coordinator four to six COs are defined per course. Knowledge Level is also

specified against the respective CO.

Step II:

The defined COs are then mapped to Progam Outcomes (POs) and Program Specific Outcomes (PSOs). The course coordinator performs this mapping. Mapping is done on four levels, 0,1, 2 & 3, with 3 being excellent and 0 being poor.

Step III:

Course attainment is computed using a predefined rubric. The assessment process is based on direct and indirect methods. The direct method involves three assessment tools, namely, Internal Examinations, Assignments, End Examinations. Indirect Assessment involves one assessment tool, which is the Course End Survey.

PO & PSO Attainment

PO & PSO attainment is computed using two methods: (1) Direct Method and (2) Indirect Method.

In Direct Method, PO & PSO attainment of each course is used. PO attainment for each course is computed by normalizing the course attainment for that PO. All the PO attainment for each course are documented. Average of all the contributing courses is calculated.

In indirect method, program exit survey is performed.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

710

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://swarnandhra.ac.in/studentsatisfactionsurveyfeedback.html

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution’s research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The promotion of research is the backbone to sustain the research environment in the campus. The purpose of this policy is to establish procedures for the conduct of research and scholarly activity and to promote applied research and innovation. The composition of the research committee is as follows:

- **Chairperson (Principal)**
- **Research Coordinator**
- **Department research coordinator**
- **Expert member**

The following policies are in place to achieve excellence at the forefront of research.

- **Faculty members are encouraged to enroll in a Ph.D. program and to avail seed money to carry out their research work.**
- **Faculty members are motivated to present and publish papers in reputed Journals and conferences with financial support.**
- **Faculty members are encouraged to apply for research funding to different agencies such as DST, DRDO, UGC, AICTE, MHRD etc.,**
- **To augment the research, faculty are provided excellent computational facilities to carry out the simulation study.**

- **Publications in reputed journals are rewarded with attractive cash incentives to motivate the faculty.**
- **The budget can be allocated to carry out the research work.**
- **Workload can be curtailed those who have registered part-time Ph.Ds and principal invigilators.**
- **To encourage the students in doing best projects by providing seed money.**

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://swarnandhra.ac.in/researchpromotionpolicy.html
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

0.2

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	No File Uploaded
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

0

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	No File Uploaded
List of projects and grant details	No File Uploaded
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

0

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	No File Uploaded

3.2.3 - Number of teachers recognised as research guides

03

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

0

File Description	Documents
Supporting document from Funding Agencies	No File Uploaded
Paste link to funding agencies' website	Nil
Any additional information	No File Uploaded

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The institution promotes innovative incubation centers in the campus to encourage students towards innovative ideas. It aims to be a pivot for novel ventures in the domains of science and technology and education. To enhance the learning process towards an ingenious way of education, the institution has conducted various workshops and seminars through the incubation center. In order to reinforce entrepreneurship among the student community, an incubation centre has been established with the support of Andhra Pradesh State Skill Development Corporation (APSSDC). The various programs organized by the institution through the centre are as follows:

- Embedded with IoT
- Web development powered by Python
- Mobile App development
- Google Android development
- 3D Experrreience Lab by Dassult Systems
- Entrepreneur Awareness

The institute has developed a strong eco system for innovation and incubation activities. In the institute, Mechanical Engineering

Department has been recognized as research centre by JNTUK, Kakinada.

Nano Technology Research laboratory was establizhed in 2009. It carries out research in the fields of VLSI, Nano materials, signal processing, communication systems etc. UV-VIS Spectro Photometer installed for the characterization study of reflection, transmission and absorption of the prepared micro and nano material structures.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

2

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

07

File Description	Documents
URL to the research page on HEI website	https://swarnandhra.ac.in/researchabout.html
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

36

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

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

16

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

32

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

0

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	No File Uploaded
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

0.73

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	No File Uploaded
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	No File Uploaded
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

The life of a student is not only academics but also should have social responsibility. Keeping this point in view, Swarnandhra College of Engineering & Technology (SCET) has been instilling a culture of social responsibility within the students and create a positive and productive environment. Many programs are being organized for the welfare of society.

The Programs are as follows:

Swatch Bharat Campaign

Awareness Program on the usage of Helmets

Vanam Manam:

Health Youth for Healthy India:

Blood Donation Camp:

Voter Enrollment Program:

Social concent to poor and physically challenged people:

In addition to above programs, College has been conducting many activities like Blood grouping, Career guidance to school children International Yoga Day, Flag Day, Mass plantation, Medical camps, Blankets Distribution for poor etc.

By participating in the extension activities, students learnt the qualities like mingling with the people, identify their problems and finding solutions, enhance their communication skills, life skills and leadership qualities, the importance of keeping their surroundings clean and maintain healthy life style. The College feels the social responsibility and has been initiating extension activities that are helpful to the needy people and also for the overall development of the students.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

2

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through

NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

8

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

1261

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

29

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

5

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

Swarnandhra College of Engineering &Technology (SCET) possesses a well-maintained campus spread over 25.06 acres of serene green land. The existing infrastructural facilities are utilized for conducting theory and practical classes. There are altogether 20 buildings. The college has 67 well-furnished classrooms, three AC Seminar Halls, one AC Conference Hall, 86 Well-equipped Laboratories, four Drawing Halls, two English communication skills labs, Six Research Laboratories, nine e-class rooms, 42 LCD Projectors, Central Library along with Departmental Libraries, Digital Library, Internet Center, Student Rest Rooms, Staff Rooms with Computers, Laptops, ICT Web facilities, Intercom, Campus under CC TV surveillance, internet with Wi-Fi Connectivity and uninterrupted power supply facility. Every department has a separate smart classroom.

The Central library is equipped with facilities like reprography, computers, printers, and internet and is fully automated. The Central Library has a collection of 6,306 titles and 41,312 volumes. It subscribes 125 National and 220 International journals. The digital library provides online material to staff and students.

The college has adequate computer facilities and other learning resources, which are extensively used for academic and administrative purposes. It has twelve computer laboratories for the students with 1056 computers and nine servers for their maintenance. In separate computer center,

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

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

OUTDOOR COURTS:

S.No

Description of

Sport/Game

Total Area in

Sq. Mtrs.

Utilization by

the Students Per day

1

Athletics Non-Standard Track 200 (mtrs)

3200

15

2

High Jump and Long Jump Pit

540

6

3

Cricket

6400

40

4

Volley Ball Court

1265

40

5

Throw Ball Court

510

30

6

Basket Ball Court

1760

20

7

Tennikoit Court

270

15

8

Kabaddi Court

676

30

9

NAAC

Badminton Court (Boys)

405

12

10

Badminton Court (Girls)

567

15

INDOOR COURTS:

S.No

Description of

Sport/Game

Total Area in

Sq. Mtrs.

1

Chess

24

2

Carroms

16

3

Table Tennis

77

YOGA:

GYM FACILITIES:

The institution has twelve station Gymnasium along with all facilities and equipment.

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

CULTURAL ACTIVITIES:

The institution has various platforms in the fields of co-curricular and extra-curricular activities for the overall development of the students.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://swarnandhra.ac.in/gamesandsports.html

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

72

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

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

228599

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	View File

4.2 - Library as a Learning Resource

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

. The institution provides all facilities to the students to enhance their knowledge and skills through the central library, It was fully automated with Integrated Library Management System(ILMS) software EZ library in 2006.

EZ library server configurations are as follows:

The central library consists of features like ILMS, which is very useful to the students as well as faculty members. With the introduction of the Integrated Library Management System software EZ library in the College Central Library, one can easily access the account information like books taken and due to return through student and staff members database, which is linked with ILMS software. The College Central Library has Online Public Access Cataloguing System (OPAC), which is helpful in searching the book availability and its location in the library. It is helpful to the students and staff members to avoid the time wastage. The ILMS system in the library provides better and efficient services to the students and faculty members.

The central library also includes a digital library with 20 computer

terminals with 20 Mbps internet facility The digital library is a member of DELNET which is very useful to the students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

B. Any 3 of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

259038

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

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

47.4

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

SCET has IT policy. IT policies include IT Hardware Installation Policy, Software Installation and Licensing Policy, Network (Intranet & Internet) use Policy, E-mail account use Policy, Web Site Hosting Policy, Institute Database Use Policy.

The infrastructure in the campus provides a wide range of web services along with the Wi-Fi routers.

The entire campus is monitored by CCTV surveillance systems. SCET’s video surveillance recording devices generally retain footage for 60 days. Any request to view or export camera video archives must be submitted to the Principal for approval. The college website of the institution is monitored and updated from time to time.

The institution provides free access to the students and staff to work on their academics and research projects. A centralized server is available and operational 24x7 round the clock to provide internet services for institutional activities.

Some of the IT Infrastructural facilities in the campus are:

- **All the departments are equipped with LCD projectors .**
- **The administrative block, departments, and laboratories of the institution are connected with Local Area Network (LAN) and Wi-Fi facility.**
- **The institution has IT infrastructure enabled seminar halls and each department has separate e – classrooms with smart boards to foster a better teaching-learning experience.**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://swarnandhra.ac.in/itpolicy.html

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
3061	1092

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	View File

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

B. Any three of the above

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	No File Uploaded

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

36669146

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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

Swarnandhra College of Engineering and Technology (SCET) has a Maintenance Management System that is subdivided as Physical, Academic and Support facilities.

Class Rooms:

- **Use of non-dust chalks.**
- **Daily sweeping of classrooms**
- **Common dust bins are provided at various locations on each floor and in every classroom.**

Laboratories - Maintenance & Utilization:

. Periodical checkups and calibration of equipment in all laboratories often take place. The repairs and servicing of the equipment is done by the Lab technicians and concerned technical persons under the supervision of the lab in-charge. Stock verification is conducted in all laboratories every year.

Library:

The institution has a central library along with departmental libraries. The maintenance of the library includes shelving, shifting, sorting, binding, searching for missing items,

Sports Activities:

Sports equipment and facilities are mainatined by PD.Usage of sports items are recorded.

Hostels:. The superintendent and hostel wardens look after the maintenance of the hostels and mess assuring the quality and hygiene

in the surroundings.

Computer Systems Maintenance:

Maintenance of the networking system, purchase of accessories such as switches, routers, printers, AMC, etc.

Internet and Wi-Fi:

System administrator and a team of technicians look after the maintenance of daily bandwidth, usage, bandwidth allocation, and sharing.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

2230

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

12

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	https://swarnandhra.ac.in/ptraining.html
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

64

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

420

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

14

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	View File

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

4

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

1

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

STUDENT COUNCIL

The Institution has a student council for which students are selected depending on their Academic Performance. S

MESS & CANTEEN COMMITTEE

Mess & Canteen Advisory Committee monitor food quality, sanitation or inconvenience faced by students inside the mess & canteen is being sorted out.

HOSTEL COMMITTEE

. The members including one management member, four wardens (2 Girls hostel wardens & 2 Boys hostel Wardens) & four students (2 boys & 2 Girls) representatives.

SPORTS ADVISORY COMMITTEE

LIBRARY ADVISORY COMMITTEE

Students from all branches are made members.

TRANSPORT ADVISORY COMMITTEE

The Transport Advisory Committee including Transport In-charge and student representatives

ANTI RAGGING COMMITTEE

The anti-ragging committee includes D.S.P, C.I, newspaper reporter, all department heads, two management members, physical director, transport in-charge, boys and girls hostel wardens, local prominent people (Advocate, 2 Parents).

ALUMNI COMMITTEE

The institution has an alumni committee, which conducts alumni meets with graduate students.

INTERNAL QUALITY ASSURANCE CELL (IQAC)

IQAC works under the chairmanship of the head of the institution and convener with faculty members from each department. Students are also members of institutional IQAC. Student members consider suggestions and feedback for IQAC.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://swarnandhra.ac.in/aqar2021/postimages/5.3.2.pdf.pdf

5.3.3 - Number of sports and cultural events / competitions organised by the institution

6

File Description	Documents
Report of the event	No File Uploaded
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The alumni association is one of the stakeholders of the Swarnandhra College of Engineering and Technology (SCET). They contribute immensely to the development of the college in multiple dimensions. SCET conducts an Alumni meeting every year.

SCET Alumni association is contributing to the college financially, academically in exploring new opportunities. The funds contributed by the Alumni are utilized towards the development of labs, medals, awards to students, other amenities, etc. Alumni have also contributed immensely as members of BOS, delivering Guest lectures, offering Intern-ships, assisting in Placement, organizing Industry visits, and also assisting students to get admissions into reputed Universities Abroad.

The Alumni have provided mentoring services 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 career in the right direction. SCET Alumni have been influential in making the students to understand various business opportunities and providing all the support.

Alumni are invited to participate in their respective BOS. Alumni contributed extensively in bridging thegap between industry requirements and academics by reviewing and restructuring the syllabi.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://swarnandhra.ac.in/swarnandhraalumniportal/index.html

5.4.2 - Alumni’s financial contribution during the year **E. <2 Lakhs**

File Description	Documents
Upload any additional information	View File

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

The Vasista Educational Society, Narsapur, West Godavari District, Andhra Pradesh was established in 2000 by technocrats and architects. The society has initiated an institution by name "Swarnandhra College of Engineering & Technology" in 2001 to provide quality technical education to students hailing from both rural and urban areas to evolve them as dynamic professionals.

Vision

To produce global competent, ethical and dynamic professionals by creating Centre of Excellence in Technical Education for societal empowerment

Mission

- **To provide quality education with knowledge and skills for rural and urban students.**
- **To collaborate the industries with academia for empowering the students to meet global standards.**
- **To induce highly ethical entrepreneurship in young minds with good leadership quality for the society.**
- **To enhance the institution in Research and Development by human intellectual capability.**

Perspective Plan: The perspective plan for the next five years includes continuing the status of accreditations, permanent affiliation to JNTUK, UGC autonomy, the establishment of research & innovation centers, incubation centers, centre of excellence, consultancy, startups and collaborations for higher studies and placements.

Participation of the teachers: Through participative management system, the faculty are involved in various decision making bodies like governing body, academic council, the board of studies,etc.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The case study of the preparation of Academic Planner

The institution functions with the method of decentralized governance system. The Head of the Department (HoD) has the authority to decide the activities and delegating responsibilities to the staff members. The department decides on the timetable, subject allocation, purchase and maintenance of equipment and consumables, organizing conferences, symposia, guest lectures, and workshops and recommends necessary industrial visits, in-plant training, internships, and MoUs.

. All the academic activities are decentralized and decisions are taken based on discussion and deliberations in the class committee meetings, department meetings, faculty meetings, and HoDs' meetings with Principal. The Principal coordinates through the Internal Quality Assurance Cell (IQAC) with the departments, administration, and management.

Every year Academic Planner is prepared by IQAC, COE & HOD's the closure of the previous academic year.

Preparation of the next academic year with Working days/test days/model exam days, Department activities, Guest Lectures, Industrial Visits, Internships, Placement Training, Audit Days, FDPs / Workshops / Conferences, and all-day celebrations.

The Principal submits the final schedule to Academic Council for approval. All committees follow the same. Nearly 90% of the events as per schedule are conducted every year.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	No File Uploaded
Paste link for additional Information	http://www.swarnandhra.ac.in/about-us/strategic-plan/

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The prominent resources that the institution currently has

- **Well qualified and experienced faculty members**
- **State-of-the art Central Library**
- **Good infrastructure facilities with well-equipped laboratories and computer centres in every department**
- **Advanced Nano Research Centre, Big Data Analytics lab and 3-D printing Lab Training and Placement Cell**

Perspective Plan for the development of college:

- **Strengthen industry-institute interaction.**
- **Improvement of consultancy services.**
- **Increasing value-added certification courses.**
- **To be ranked in top 150 at prestigious NIRF Ranking.**
- **Getting the status of Deemed- to- be- University.**
- **Establishment of new innovation and incubation centers.**
- **Centre of Excellence. Creating an intense research ambiance in terms of establishing recognised R&D centres in all the departments.**

The following major deployments have been taken place after the accreditation

- **Standardizing the OBE based teaching-learning processes**
- **The department of ECE has been accredited third time by NBA.**
- **Establishment of Advanced Labs like 3D printing, IoT, ARC Lab, etc..**
- **Functional MOUs.**
- **Increase of intake in B.Tech-ECE, CSE and MECH. branches.**
- **Strengthen the alumni association.**
- **Recognised as NPTEL Local Chapter.**
- **Adoption of Choice Based Credit System (CBCS) in curriculum**
- **Recognized research centre for Mechanical Engineering department by JNTUK, Kakinada.**

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	http://www.swarnandhra.ac.in/about-us/strategic-plan/
Upload any additional information	No File Uploaded

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

The college has a well-framed internal organizational structure for decision making processes anddeveloped efficient internal coordinating and monitoring mechanisms. In cognizance with the educational needs and demands of the nation in general and beneficiaries of the college in particular, the goals are set through collaborative and collective efforts of various components of the institution. The governing body is the apex body, which defines academic and administrative policies . Minutes of the meetings are recorded and are available to the staff and students. The governing body communicates decisions to the faculty and staff through the principal. Academic Council, chaired by the Principal, is a statutory body, which approves curriculum, examination schemes with the approval of governing body. BoS of each department works under the guidance of the HOD as chairman. Faculty members and experts of the BoS frame the curriculum. Other committees such as Institution Advisory Committee, College Academic Committee, Grievances Redressal Cell, Finance Committee, IQAC, Library Committee, Placement Committee, Anti-ragging committee, etc. work under the guidance of the head of the institution.

The powers and the functions of each authority are well defined to ensure administrative decentralization.

File Description	Documents
Paste link to Organogram on the institution webpage	https://swarnandhra.ac.in/about-us/govn-body/organogram.html
Upload any additional information	View File
Paste link for additional Information	https://swarnandhra.ac.in/aqar2021/postimages/Human-Resources%20policy.pdf.pdf

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

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

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Employees Provident Fund as per PF rules

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

Group Insurance for staff members

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

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.**

Fee concession policy to staff children

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

Encashment of Earned Leaves

- **The employee in the institution is eligible to avail of ten earned leaves after completion of every year. These earned leaves are accumulated in the employees' account and can be encashed as per the institute service rules.**

Fee concession for Bus Transportation

Subsidized food facility

Subsidized accommodation

n addition to the above following are the welfare schemes available for the Teaching staff

Support to staff for higher education/research

Support to staff for attending workshops /conferences

Awards

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

29

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

236

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

23

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The Institution has established a mechanism for conducting internal and external audits on financial transactions every year to ensure financial compliance. Internal audit is conducted half-yearly by the internal financial committee of the institution. The committee thoroughly verifies the income and expenditure details, and the

compliance report of internal audit is submitted to the management of the institution through the principal. The external audit is conducted once in every year by an external agency.

Process of the internal audit:

An internal financial committee audits all vouchers on half yearly basis. The expenses incurred under different heads are thoroughly checked by verifying the bills and vouchers. If any discrepancy is found, thesame is brought to the notice of the principal. The same process is being followed for the last five years.

Process of the external audit:

The accounts of the college are audited by chartered accountant regularly as per the government rules. The auditor ensures that all payments are duly authorized after the audit, the report is sent to the management for review. Any queries, in the process of an audit would be attended immediately along with the supporting documents within the prescribed time limits.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://www.swarnandhra.ac.in/downlaods/20-home/downloads/747-audit-reports/#gsc.tab=0

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	No File Uploaded
Any additional information	No File Uploaded

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

1.Institutional budget is prepared by the Principal every year taking into consideration of recurring and non-recurring expenditures.

2.Accordingly, all the administrative and academic heads are requested to submit the budget required for the subsequent financial year. Along with this all coordinators of different cells viz., R & D Cell, , etc. are instructed to submit their budget to Principal.

3.All the major financial decisions are taken by the Management and Governing Body (GB).

Utilization of funds:

1.Institution adheres to the Utilization of budget approved for academic expenses and administrative expenses by management.

2.After final approval of the budget, the purchasing process is initiated by the purchase committee, which includes all head of departments and account officer, accordingly, the quotations called and after the negotiations purchase orders are placed.

3.The payments are released after the delivery of the respective goods. It is done as per the terms and conditions mentioned in the purchase order. 4.All transactions have transparency through bills and vouchers. The bill payments are passed after testing and verification of items.

5.The entire process of the procurement of the material is monitored by the purchase committee, principal and the accounts department.

6.Internal and external financial audits are conducted in every financial year to verify the compliance.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	http://www.swarnandhra.ac.in/admissions/fee-structure/#gsc.tab=0

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

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

- **Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks.**
- **The relevance and quality of academic and research programmes.**
- **Equitable access to and affordability of academic programmes for various sections of society.**
- **Optimization and integration of modern methods of teaching and learning.**

Some of the functions expected from IQAC are:

- **Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution.**
- **Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes.**
- **Dissemination of information on various quality parameters of higher education.**
- **Documentation of the various programmes/activities leading to quality improvement.**
- **Preparation of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC**

IQAC has contributed significantly to institutionalizing the quality assurance strategies and processes, following are the results of IQAC initiatives for the past five years:

- **Extention of AUTONOMOUS Status sanctioned for five years (2021 to 2026)**
- **Participation in NIRF**
- **Energy Audit**
- **Green Audit**
- **Environmental Audit**
- **Academic and Adiministrative Audit**
- **ISO Certification**

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://swarnandhra.ac.in/iqac.html

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

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.**
- **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:

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

IQAC has contributed significantly to institutionalizing the quality assurance strategies and processes, following are the results of IQAC initiatives for the past five years:

- **Extention of Autonomous status by UGC**
- **Incubation centre for IOT established in our college premises.**
- **Entrepreneurship Cell started for motivating young entrepreneurs from the rural community**
- **Smart classrooms were installed in all the departments**
- **Language lab for communication started for students and staff members as well as added in our curriculum.**
- **Yoga and martial arts programmes conducted frequently for students and staff members**
- **Publications of faculty and students are provided in the Library**
- **Value added courses**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://swarnandhra.ac.in/iqac.html

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://swarnandhra.ac.in/iqac.html
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

In our institute, we provide equal opportunity to both male and female students in all curricular and co-curricular activities conducted within the campus and outside the campus.

Safety and Security

- **The Institution follows a 33.3% reservation for girls as per the Government of Andhra Pradesh norms.**
- **24 security personals provide security inside the campus.**
- **Three woman wardens are at the girls' hostel round the clock.**
- **The college woman's forum conducts frequent health awareness programs.**
- **Women Grievance Cell provides a convenient opportunity for girl students to raise the problems of harassment, preserving anonymity events.**
- **There is a separate dining hall for day scholar girls students, independent sports facilities.**
- **Closed-circuit camera (C.C.C.) surveillance is in the institution.**

Counseling: The institution has arranged individual advice for students

1. Counseling related to academics

2. Counseling related to career

3. Information about behavior and attitude

Common rooms: There are three ladies waiting halls as common rooms in the institution. The common rooms are possessed chairs, tables, adequately furnished with electric and sanitary fittings.

As part of N.S.S. activities, free multi-specialty medical camps organized in neighboring villages, which help transform rural women in building awareness about health, hygiene, the importance of child education.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://swarnandhra.ac.in/aqar2021/postimages/7.1.1.pdf.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

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

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Solid waste management:

The Institution is actively involved in the CLEAN-AND-GREEN campaign of national fame, a subject in which it had already taken keen interest from the year of inception in 2001. The floor safai workers in each floor collect and segregate the waste, and are taken to the dumping yard within the institution. The vendor collects the waste and disposes of them at the landfill site authorized by the municipality.

Recyclable wastes like pet bottles, cartons and stationery are collected which is periodically sold to vendors for recycling.

Liquid waste management:

The liquid waste water is used for horticulture and gardening. The chemicals from laboratories are well neutralized before sending into drains.

Hazardous Lab Waste (E-waste):

All electrical waste are stored separately in a shed. Steel plates are used instead of paper and plastic plates, steel spoons replace the plastic spoons in the canteen.

Flip flops, memory chips, motherboard, compact discs, cartridges etc generated by computers, 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. In some cases, the used computers generously donated to nearby primary schools.

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

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

1. **Restricted entry of automobiles**

2. **Use of bicycles/ Battery-powered vehicles**
3. **Pedestrian-friendly pathways**
4. **Ban on use of plastic**
5. **Landscaping**

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

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following:

B. Any 3 of the above

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

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	View File

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile

A. Any 4 or all of the above

path lights, display boards and signposts
Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc.
Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The institution is highly committed to promoting an inclusive environment towards tolerance and harmony. It initiates efforts in developing cultural, regional, linguistic, communal, socio-economic, and other diversities in our students as well as faculty. The institutional efforts/initiatives in the regard are as follows:

In 2014, the Government of India introduced Rashtriya Ekta Diwas or National Unity Day on 31st October intending to pay tribute to Sardar Vallabhbhai Patel on his birth anniversary. On this day, 'National unity pledge' is taken by all teaching, non-teaching members, including students.

The used computers, few furniture of reusable also donated to nearby primary schools.

In developing harmony and tolerance, students, along with few faculty members, celebrate Independence Day or republic day with Deaf &Dumb school children.

To become responsible citizens of the country, our institute organizes personality development programs.

At our institution, to go with more tolerance and linguistic

diversities among students and faculty specialized coaching by people like Dr.K.V.Subba Raju, Dr.K. Balaji Reddy, Rajesh Murthy organized.

At our institution, we have student-owned non-governmental organizations like AACHRANA, NEW CLOURS with the help of management, and staff students donate money and needy groceries to poor people and also blood donation programs running.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The Fundamental Rights, Directive Principles of State Policy and Fundamental Duties are sections of the Constitution of India that prescribe the fundamental obligations of the State to its citizens and the duties and the rights of the citizens to the State.

The Constitution Day (National Law Day), . In our institution, we take the pledge to follow fundamental duties in our life. On thisday, the preamble of the constitution was read out by all students and staff.

National Voters' Day is celebrated on January 25 every year from the year 2011on wards, to encourage more young voters to take part in the political process. Such likely voters would be enrolled on time and handed over their Electoral Photo Identity Card (EPIC) on January 25 every year.

The Road Safety Week (At our institute, we took a rally in the nearby municipality with the help of NSS wing and distribute pamphlets to wear a helmet while driving and safety guidelines to prevent road accidents.

The Van Mahotsav (National Festival of Tree Planting) in India is held annually from July 1 to July 7 and is celebrated every year

The National Education Day observed on November 11 from the year. Our students go to nearby villages and spread the message of education to all as well as digitization importance.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

A. All of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Independence Day . As the tricolour goes up a top in front of the central library building of our institution all the students salute with reverence and pride and sing the national anthem followed by the chief guest message.

Republic Day

Dr Mokshagundam visvesvaraya birthday (Engineer’s day): Every year on September 15 all the departments of our institution celebrates “Engineer's Day”.

Dr Sarvepalli Radhakrishnan birthday (Teacher's Day) is the day which is celebrated to honour the teachers. I

Gandhi Jayanthi is a national festival celebrated to mark the occasion of the birthday of Mohandas Karamchand Gandhi.

Mathematics Day is observed on December 22 every year. It is celebrated in order to honour the birth anniversary of the famous mathematician Sir Srinivasa Ramanujan.

- **International Women's Day celebrations on March 8th every year are organized for girl students and female faculty.**
- **International day of yoga i**
- **Sankranthi sambarallu is one of the most important festivals of Andhra Pradesh. At our institution ever four years once we celebrate it with traditionally.**

World Water Day is organized by the environmental club of our institution every year on 22nd March. T

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

PRACTICE-I

Title of the Practice

Course Coordinator-Ship: An Effective Mechanism in Outcome Based Education

Objectives of the Practice

Outcome based education (OBE) is a student centred instruction that focuses on measuring student

The evaluation process includes many terminologies such as, Program Educational Objectives (PEO), Program Outcomes (PO) andCourse Outcomes (CO), different roles were considered to implement and execute the outcome based education process. Out of which Course Coordinators are an effective role for execution of activities under various modules of the program. Therefore, Swarnandhra College of Engineering and Technology (SCET) has been practicing course coordinator ship effectively to shift the focus of education from educator to learner with the following objectives:

- **To set high academic content standards**
- **To design curriculum and course works more efficiently**
- **To maintain high transparency in student assessments**
- **To provide core support and essential autonomies for students**

PRACTICE-II

Title of the Practice

Employability Skills Enhancement Program- an innovative approach

Objectives of the Practice

The objective of this practice is to provide training to all branches of the students during pre-final year, semester break and final year to enhance employability skills.

web link for best practices

https://swarnandhra.ac.in/best-practices/index.html

File Description	Documents
Best practices in the Institutional website	https://swarnandhra.ac.in/best-practices/index.html
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

The implementation of distinctiveness actions are listed below. 1. Our institution is the first of its kind having “Nanotechnology Research Centre” established in collaboration with International Accreditation Council of Quality Education and Research with the equipment worth of Rs.61.46 lakhs.

In Andhra Pradesh, this college is unique to have well-equipped research laboratory with the clean room facility in a self-financing affiliated college which is so broad and universal that they will influence all areas in the ways that are inevitably unpredictable where all department faculty are actively involved . Research grants received from UGC, AICTE, UGC-DAE, DST, DRDO and IACQER for the projects.

The green energy is promoted by installation of solar panels on all buildings of the institution for the generation of electricity and also solar water heater installed on the hostel buildings.Centre of Excellence / Incubation centre was established by the department of Information Technology in collaboration with SMARAGDINE Technologies Pvt. Ltd, Hyderabad.

Applied Robotic Control lab was established, with the collaboration of APSSDC & ECM Germany, specialised training is giving to bridge the gap between students and industry with two Advanced Robots.

3D experience lab was established in collaboration with Dassault Systemes and APSSDC

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

- **Step1: A series of faculty meetings are conducted to monitor the Outcome-Based Education (OBE), stated POs, PSOs, and COs are identified and checked in line with the Vision, Mission of the institution and the departments also have a relevance to the local/regional/national/global developmental and professional needs.**
- **Step2: The curriculum has been revised regularly to meet the professional and industrial needs of the present-day global world on par with a few leading institutions in India and Abroad.**
- **Step3: The institution hosts alumni meetings and takes views and suggestions for the changes required in the curriculum as per the global/local arena.**
- **Step 4: To have the right mixture of curriculum, pedagogy, and assessment to achieve the desired outcomes a meeting of the Board of Studies (BoS) is convened. This body comprises the senior faculty of the department and five experts, one JNTUK nominee, one alumni representative, two from academia and one from the industry.**
- **Step 5: The academic council, headed by the principal, university representatives, comprising of eminent professors, industrial experts and heads of all departments as its members discuss and evaluate the scheme and syllabi and approve the same with necessary modifications.**

File Description	Documents
Upload additional information, if any	View File
Link for additional information	https://swarnandhra.ac.in/aqar2021/uploads/1.1%20Curriculum%20Design%20and%20Development.pdf

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

7

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	View File

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

242

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	View File
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

270

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

13

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	No File Uploaded
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

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

The institution incorporates several cross-cutting societal issues into the curriculum. The following are the efforts made by Swarnandhra College of Engineering and Technology in this direction.

1.Professional Ethics & Intellectual Property Rights

A course on Professional Ethics & Intellectual Property Rights is offered as mandatory to all the students during the programme of study. The issues in professional ethics are analyzed in the context of the right understanding with the main focus on the development of ethical competence in individuals. The course concludes by proposing several salient steps to undertake the journey towards holistic and value-based living.

2. Environment and Sustainability

This course introduces the academic approach of sustainability by covering the general understanding of what constitutes the rates of a renewable resource and non-renewable resource, Environmental Studies, Ecosystems, Pollution, Waste management, and where these processes can be continued indefinitely without sacrificing the needs of future generations. It is a course to equip students in a better way of making informed decisions and taking economically feasible actions that are in the interests of protectingnature. The curriculum provides the opportunity of going through the Environmental Impact Assessment process as well..

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	View File

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

10

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

1016

File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

55

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the	**A. All 4 of the above**

syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni	

File Description	Documents
Provide the URL for stakeholders' feedback report	https://swarnandhra.ac.in/feedback.html
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	No File Uploaded
Any additional information	No File Uploaded

1.4.2 - The feedback system of the Institution comprises the following	**A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	https://swarnandhra.ac.in/feedback.html
Any additional information	No File Uploaded

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

3061

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

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

839

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

Assessment of learning levels of students

Students are categorized as advanced learners and slow learners based on their performance in internal examinations and mentoring. This process is also adopted in the remaining semesters.

Special Programs offered for slow learners

Special Classes

Special Classes are being conducted regularly by the respective faculty members beyond their working hours. Because of the difficulties faced by the slow learners, more emphasis has been given in the form of allotting more time.

Special Programs for advanced learners:

Special coaching is also given to the advanced learners for GATE exam. The faculty members clarify their doubts and make them prepare for the GATE exam.

Bridge Course & Remidial Classes

A bridge course is being conducted in the Mathematical Foundation and Essential of Programming for lateral entry students.

Apart from the above, remedial classes are also being conducted for students who have backlogs.

Mentoring System

To extend a proper guidance, students are assigned to a mentor. The main objective is to keep the track of the progress of the students and accordingly an academic and career guidance have

been extended in the form of counseling. Parents are informed timely whenever the necessity arises

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
08/06/2020	3061	210

File Description	Documents
Upload any additional information	View File

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:

Student-centric methods

Experiential Learning:

The institution provides the following opportunities to the students to attain knowledge through experiential learning.

Laboratory

The institution provides a 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 learning experience.

Mini Projects

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

Group projects

Internships

Case studies

Participatory Learning:

Participatory learning makes learning accessible and offers open participation and progression through different stages of achievement. It further establishes a healthy learning environment for the students.

Active Learning:

The students are encouraged to participate actively in activities like pair share, in-class team and Jigsaw which are helpful to the students to sharpen their critical thinking and problem-solving skills.

Learning Management System -Google Classroom and Canvass:

Seminars:

Massive Open Online Courses (MOOCs):

Problem-based Learning:

Students are being given problems from prescribed books and reference books as an assignment. The faculty members interact with the students in a friendly way and explain the difficult topics wheneverrequired and improve their performance.

File Description	Documents
Upload any additional information	View File
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

Google Classroom:

The faculty members, as well as students, have been the part of

Google classroom. The faculty members share materials, conduct, distribute and grading assignments among students through Google Classroom. It is also helpful to the teaching faculty for monitoring the progress of students.

Canvas:

Canvas is one of the useful LMS which is part of the College. The faculty members of the College use it for grading assignments, conducting quizzes, discussions, and conferences. The students are also actively participated in the programs as mentioned above and respond actively.

MOOCs:

The faculty members and the students of the College have been doing MOOCs like NPTEL and other courses that are helpful to get access to the best of educational content.

Whatsapp:

The faculty members of the College have been encouraging the students to form separate Whatsapp groupsrelating to the concerned subjects for the clarification of the doubts of the students.

Digital library:

Digital library has been provided in the College which provides a sufficient number of computers with internet and Wi-Fi facilities. The digital library is very useful for the students as well as teaching faculty members for going through e-journals and updating their knowledge.

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://swarnandhra.ac.in/ictenabledclassrooms.html
Upload any additional information	View File

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

155

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

The College Academic Committee which includes the Principal, Head of Departments, Senior faculty members, IQAC and Controller of Examinations prepares the Academic Calendar. The Academic Council reviews it and recommends for the revision if requires and approves. It shows the details about the number of instruction weeks to be conducted, details of Mid Examinations, schedule of End theory and practical Examinations, holidays for the semester and also provides an adequate balance between academic and non academic activities. The departments prepare a timetable for the semester based on academic calendar which also includes workshops, conferences, visiting faculty lectures, seminars, industrial visits etc.

Each semester, the faculty prepares a lesson plan which includes the details about the number of hours to be taken for each unit, course outcomes, delivering methods and reference textbooks, etc. Lesson plans are verified and approved by the Head of the Departments and Principal. Periodically, the Head of the departments and Principal verify the course delivery of the lesson plan and progress of the units covered. Internal Quality Assurance Cell (IQAC) verifies the same and gives suggestions if required.The syllabus of each programme is the basis for preparing the academic calendar and master time table.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

210

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

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

22

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1294

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

2.5.1 - Number of days from the date of last semester-end/ year- end examination till the declaration of results during the year

21

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

1

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	No File Uploaded

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

Continuous Internal Examinations (CIE) for U.G and P.G

Semester End Examinations (SEE) for U.G and P.G

Appointment of Question Paper Setters and Examiners:

Selection of Question Paper:

On each day of examination, CCE and CE draw at random one of the sealed covers containing Question Papers (6 Sets) and open the required number of packets of question papers at least one hour before the start of examination.

Semester End Examination for Lab courses and Project Work

1.Semester End Examination for lab shall be conducted as per the examination schedule approved by EC and the guidelines given in academic regulations.

2.For external evaluation of UG project and PG project, external examiner from other college is mandatory.

Supplementary Examinations:

Central Assessment / Evaluation:

Semester End Examination Result:

Results are usually declared within three weeks from the date of the last examination.

Revaluation of Answer books:

Candidates can apply for revaluation of the answer scripts. Revaluation will be done only for Theory subjects.

Integration of IT in Examination System:

Entire Examination Process is automated starting from Registration to result declaration.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	http://www.swarnandhraexambranch.com/Login.aspx?ReturnUrl=%2f

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

The course outcomes are identified as per the content and intent of the course or topics. The course outcomes are planned and designed to cover the entire syllabus and are approved by the Board of Studies.

The POs, PSOs and COs are published in the Curriculum book and departmental website. They are made accessible to all the stakeholders of the program through the website.

Mechanism of Communication

Lesson plans and Course Information Sheets are prepared for every course by the respective faculty and circulated to students.

Lesson plan contains COs and the topic in the course to which each CO is mapped to. POs are listed in the Course Information Sheet. The Course Information Sheet also contains the CO-PO mapping matrix. Handouts are circulated also contain respective COs. Even in internal Examinations, it has been made a practice to indicate the Bloom's Taxonomy Level of each question and the CO to which the question is mapped. This is done so as to help in CO attainment computation.

The Programme Outcomes are published in the following: Department website College website Curriculum / syllabus books Display board.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	View File
Link for additional Information	Nil

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Course Outcome(CO) Attainment :

Step I:

COs for the respective subject are defined by course coordinator four to six COs are defined per course. Knowledge Level is also specified against the respective CO.

Step II:

The defined COs are then mapped to Progam Outcomes (POs) and Program Specific Outcomes (PSOs). The course coordinator performs this mapping. Mapping is done on four levels, 0,1, 2 & 3, with 3 being excellent and 0 being poor.

Step III:

Course attainment is computed using a predefined rubric. The assessment process is based on direct and indirect methods. The direct method involves three assessment tools, namely, Internal

Examinations, Assignments, End Examinations. Indirect Assessment involves one assessment tool, which is the Course End Survey.

PO & PSO Attainment

PO & PSO attainment is computed using two methods: (1) Direct Method and (2) Indirect Method.

In Direct Method, PO & PSO attainment of each course is used. PO attainment for each course is computed by normalizing the course attainment for that PO. All the PO attainment for each course are documented. Average of all the contributing courses is calculated.

In indirect method, program exit survey is performed.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

710

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	Nil

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://swarnandhra.ac.in/studentsatisfactionsurveyfeedback.html

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution’s research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The promotion of research is the backbone to sustain the research environment in the campus. The purpose of this policy is to establish procedures for the conduct of research and scholarly activity and to promote applied research and innovation. The composition of the research committee is as follows:

- **Chairperson (Principal)**
- **Research Coordinator**
- **Department research coordinator**
- **Expert member**

The following policies are in place to achieve excellence at the forefront of research.

- **Faculty members are encouraged to enroll in a Ph.D. program and to avail seed money to carry out their research work.**
- **Faculty members are motivated to present and publish papers in reputed Journals and conferences with financial support.**
- **Faculty members are encouraged to apply for research funding to different agencies such as DST, DRDO, UGC, AICTE, MHRD etc.,**
- **To augment the research, faculty are provided excellent computational facilities to carry out the simulation study.**
- **Publications in reputed journals are rewarded with attractive cash incentives to motivate the faculty.**
- **The budget can be allocated to carry out the research work.**
- **Workload can be curtailed those who have registered part-time Ph.Ds and principal invigilators.**
- **To encourage the students in doing best projects by providing seed money.**

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://swarnandhra.ac.in/researchpromotionpolicy.html
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

0.2

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	View File
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	View File
Any additional information	No File Uploaded

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

0

File Description	Documents
e-copies of the award letters of the teachers	No File Uploaded
List of teachers and details of their international fellowship(s)	No File Uploaded
Any additional information	No File Uploaded

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

0

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	No File Uploaded
List of projects and grant details	No File Uploaded
Any additional information	No File Uploaded

3.2.2 - Number of teachers having research projects during the year

0

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional Information	Nil
List of research projects during the year	No File Uploaded

3.2.3 - Number of teachers recognised as research guides

03

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	View File
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

0

File Description	Documents
Supporting document from Funding Agencies	No File Uploaded
Paste link to funding agencies' website	Nil
Any additional information	No File Uploaded

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The institution promotes innovative incubation centers in the campus to encourage students towards innovative ideas. It aims to be a pivot for novel ventures in the domains of science and technology and education. To enhance the learning process towards an ingenious way of education, the institution has conducted various workshops and seminars through the incubation center. In order to reinforce entrepreneurship among the student community, an incubation centre has been established with the support of Andhra Pradesh State Skill Development Corporation (APSSDC). The various programs organized by the institution through the centre are as follows:

- Embedded with IoT
- Web development powered by Python
- Mobile App development
- Google Android development
- 3D Experrreience Lab by Dassult Systems
- Entrepreneur Awareness

The institute has developed a strong eco system for innovation and incubation activities. In the institute, Mechanical Engineering Department has been recognized as research centre by JNTUK, Kakinada.

Nano Technology Research laboratory was establizhed in 2009. It carries out research in the fields of VLSI, Nano materials, signal processing, communication systems etc. UV-VIS Spectro Photometer installed for the characterization study of reflection, transmission and absorption of the prepared micro and nano material structures.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

2

File Description	Documents
Report of the events	View File
List of workshops/seminars conducted during the year	View File
Any additional information	View File

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software	A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	View File
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

07

File Description	Documents
URL to the research page on HEI website	https://swarnandhra.ac.in/researchabout.html
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	View File

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

36

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

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

16

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

32

File Description	Documents
Any additional information	View File
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

0

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	No File Uploaded
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

0.73

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	No File Uploaded
List of consultants and revenue generated by them	View File
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	No File Uploaded
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

The life of a student is not only academics but also should have social responsibility. Keeping this point in view, Swarnandhra College of Engineering & Technology (SCET) has been instilling a culture of social responsibility within the students and create a positive and productive environment. Many programs are being organized for the welfare of society.

The Programs are as follows:

Swatch Bharat Campaign

Awareness Program on the usage of Helmets

Vanam Manam:

Health Youth for Healthy India:

Blood Donation Camp:

Voter Enrollment Program:

Social concent to poor and physically challenged people:

In addition to above programs, College has been conducting many activities like Blood grouping, Career guidance to school children International Yoga Day, Flag Day, Mass plantation,

Medical camps, Blankets Distribution for poor etc.

By participating in the extension activities, students learnt the qualities like mingling with the people, identify their problems and finding solutions, enhance their communication skills, life skills and leadership qualities, the importance of keeping their surroundings clean and maintain healthy life style. The College feels the social responsibility and has been initiating extension activities that are helpful to the needy people and also for the overall development of the students.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

2

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

8

File Description	Documents
Reports of the events organized	View File
Any additional information	View File

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

1261

File Description	Documents
Reports of the events	View File
Any additional information	View File

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

29

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	View File

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

5

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

Swarnandhra College of Engineering &Technology (SCET) possesses a well-maintained campus spread over 25.06 acres of serene green land. The existing infrastructural facilities are utilized for conducting theory and practical classes. There are altogether 20 buildings. The college has 67 well-furnished classrooms, three AC

Seminar Halls, one AC Conference Hall, 86 Well-equipped Laboratories, four Drawing Halls, two English communication skills labs, Six Research Laboratories, nine e-class rooms, 42 LCD Projectors, Central Library along with Departmental Libraries, Digital Library, Internet Center, Student Rest Rooms, Staff Rooms with Computers, Laptops, ICT Web facilities, Intercom, Campus under CC TV surveillance, internet with Wi-Fi Connectivity and uninterrupted power supply facility. Every department has a separate smart classroom.

The Central library is equipped with facilities like reprography, computers, printers, and internet and is fully automated. The Central Library has a collection of 6,306 titles and 41,312 volumes. It subscribes 125 National and 220 International journals. The digital library provides online material to staff and students.

The college has adequate computer facilities and other learning resources, which are extensively used for academic and administrative purposes. It has twelve computer laboratories for the students with 1056 computers and nine servers for their maintenance. In separate computer center,

File Description	Documents
Upload any additional information	View File
Paste link for additional information	**Nil**

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

OUTDOOR COURTS:

S.No

Description of

Sport/Game

Total Area in

Sq. Mtrs.

Utilization by

the Students Per day

1

Athletics Non-Standard Track 200 (mtrs)

3200

15

2

High Jump and Long Jump Pit

540

6

3

Cricket

6400

40

4

Volley Ball Court

1265

40

5

Throw Ball Court

510

30

6

Basket Ball Court

1760

20

7

Tennikoit Court

270

15

8

Kabaddi Court

676

30

9

Badminton Court (Boys)

405

12

10

Badminton Court (Girls)

567

15

INDOOR COURTS:

S.No

Description of

Sport/Game

Total Area in

NAAC

Sq. Mtrs.

1

Chess

24

2

Carroms

16

3

Table Tennis

77

YOGA:

GYM FACILITIES:

The institution has twelve station Gymnasium along with all facilities and equipment.

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

CULTURAL ACTIVITIES:

The institution has various platforms in the fields of co-curricular and extra-curricular activities for the overall development of the students.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	https://swarnandhra.ac.in/gamesandsports.html

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

72

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

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

228599

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	View File

4.2 - Library as a Learning Resource

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

. The institution provides all facilities to the students to enhance their knowledge and skills through the central library, It was fully automated with Integrated Library Management System(ILMS) software EZ library in 2006.

EZ library server configurations are as follows:

The central library consists of features like ILMS, which is very useful to the students as well as faculty members. With the introduction of the Integrated Library Management System software EZ library in the College Central Library, one can easily access the account information like books taken and due to return through student and staff members database, which is linked with ILMS software. The College Central Library has Online Public Access Cataloguing System (OPAC), which is helpful in searching the book availability and its location in the library. It is helpful to the students and staff members to avoid the time wastage. The ILMS system in the library provides better and efficient services to the students and faculty members.

The central library also includes a digital library with 20 computer terminals with 20 Mbps internet facility The digital library is a member of DELNET which is very useful to the students.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources	**B. Any 3 of the above**

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

259038

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

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

47.4

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

SCET has IT policy. IT policies include IT Hardware Installation Policy, Software Installation and Licensing Policy, Network (Intranet & Internet) use Policy, E-mail account use Policy, Web Site Hosting Policy, Institute Database Use Policy.

The infrastructure in the campus provides a wide range of web services along with the Wi-Fi routers.

The entire campus is monitored by CCTV surveillance systems. SCET’s video surveillance recording devices generally retain footage for 60 days. Any request to view or export camera video archives must be submitted to the Principal for approval. The college website of the institution is monitored and updated from time to time.

The institution provides free access to the students and staff to work on their academics and research projects. A centralized server is available and operational 24x7 round the clock to provide internet services for institutional activities.

Some of the IT Infrastructural facilities in the campus are:

- All the departments are equipped with LCD projectors .
- The administrative block, departments, and laboratories of the institution are connected with Local Area Network (LAN) and Wi-Fi facility.
- The institution has IT infrastructure enabled seminar halls and each department has separate e – classrooms with smart boards to foster a better teaching-learning experience.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://swarnandhra.ac.in/itpolicy.html

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
3061	1092

File Description	Documents
Upload any additional information	View File

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	View File

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

B. Any three of the above

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil
List of facilities for e-content development (Data Template)	No File Uploaded

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

36669146

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

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

Swarnandhra College of Engineering and Technology (SCET) has a Maintenance Management System that is subdivided as Physical, Academic and Support facilities.

Class Rooms:

- Use of non-dust chalks.
- Daily sweeping of classrooms

- **Common dust bins are provided at various locations on each floor and in every classroom.**

Laboratories - Maintenance & Utilization:

. Periodical checkups and calibration of equipment in all laboratories often take place. The repairs and servicing of the equipment is done by the Lab technicians and concerned technical persons under the supervision of the lab in-charge. Stock verification is conducted in all laboratories every year.

Library:

The institution has a central library along with departmental libraries. The maintenance of the library includes shelving, shifting, sorting, binding, searching for missing items,

Sports Activities:

Sports equipment and facilities are mainatined by PD.Usage of sports items are recorded.

Hostels:. The superintendent and hostel wardens look after the maintenance of the hostels and mess assuring the quality and hygiene in the surroundings.

Computer Systems Maintenance:

Maintenance of the networking system, purchase of accessories such as switches, routers, printers, AMC, etc.

Internet and Wi-Fi:

System administrator and a team of technicians look after the maintenance of daily bandwidth, usage, bandwidth allocation, and sharing.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	**Nil**

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

2230

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	View File
Upload any additional information	View File

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

12

File Description	Documents
Upload any additional information	View File
Institutional data in prescribed format	View File

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology

A. All of the above

File Description	Documents
Link to Institutional website	https://swarnandhra.ac.in/ptraining.html
Details of capability development and schemes	View File
Any additional information	View File

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

64

File Description	Documents
Any additional information	View File
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

420

File Description	Documents
Self-attested list of students placed	View File
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

14

File Description	Documents
Upload supporting data for students/alumni	View File
Details of students who went for higher education	View File
Any additional information	View File

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

4

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	View File

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

1

File Description	Documents
e-copies of award letters and certificates	View File
Any additional information	View File

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

STUDENT COUNCIL

The Institution has a student council for which students are selected depending on their Academic Performance. S

MESS & CANTEEN COMMITTEE

Mess & Canteen Advisory Committee monitor food quality, sanitation or inconvenience faced by students inside the mess & canteen is being sorted out.

HOSTEL COMMITTEE

. The members including one management member, four wardens (2 Girls hostel wardens & 2 Boys hostel Wardens) & four students (2 boys & 2 Girls) representatives.

SPORTS ADVISORY COMMITTEE

LIBRARY ADVISORY COMMITTEE

Students from all branches are made members.

TRANSPORT ADVISORY COMMITTEE

The Transport Advisory Committee including Transport In-charge and student representatives

ANTI RAGGING COMMITTEE

The anti-ragging committee includes D.S.P, C.I, newspaper reporter, all department heads, two management members, physical director, transport in-charge, boys and girls hostel wardens, local prominent people (Advocate, 2 Parents).

ALUMNI COMMITTEE

The institution has an alumni committee, which conducts alumni meets with graduate students.

INTERNAL QUALITY ASSURANCE CELL (IQAC)

IQAC works under the chairmanship of the head of the institution and convener with faculty members from each department. Students are also members of institutional IQAC. Student members consider suggestions and feedback for IQAC.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://swarnandhra.ac.in/aqar2021/postimages/5.3.2.pdf.pdf

5.3.3 - Number of sports and cultural events / competitions organised by the institution

6

File Description	Documents
Report of the event	No File Uploaded
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	No File Uploaded

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

The alumni association is one of the stakeholders of the Swarnandhra College of Engineering and Technology (SCET). They contribute immensely to the development of the college in multiple dimensions. SCET conducts an Alumni meeting every year.

SCET Alumni association is contributing to the college financially, academically in exploring new opportunities. The funds contributed by the Alumni are utilized towards the development of labs, medals, awards to students, other amenities, etc. Alumni have also contributed immensely as members of BOS, delivering Guest lectures, offering Intern-ships, assisting in Placement, organizing Industry visits, and also assisting students to get admissions into reputed Universities Abroad.

The Alumni have provided mentoring services 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 career in the right direction. SCET Alumni have been influential in making the students to understand various business opportunities

and providing all the support.

Alumni are invited to participate in their respective BOS. Alumni contributed extensively in bridging thegap between industry requirements and academics by reviewing and restructuring the syllabi.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://swarnandhra.ac.in/swarnandhraalumniportal/index.html

5.4.2 - Alumni's financial contribution during the year	**E. <2 Lakhs**

File Description	Documents
Upload any additional information	View File

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

The Vasista Educational Society, Narsapur, West Godavari District, Andhra Pradesh was established in 2000 by technocrats and architects. The society has initiated an institution by name "Swarnandhra College of Engineering & Technology" in 2001 to provide quality technical education to students hailing from both rural and urban areas to evolve them as dynamic professionals.

Vision

To produce global competent, ethical and dynamic professionals by creating Centre of Excellence in Technical Education for societal empowerment

Mission

- **To provide quality education with knowledge and skills for rural and urban students.**

- **To collaborate the industries with academia for empowering the students to meet global standards.**
- **To induce highly ethical entrepreneurship in young minds with good leadership quality for the society.**
- **To enhance the institution in Research and Development by human intellectual capability.**

Perspective Plan: The perspective plan for the next five years includes continuing the status of accreditations, permanent affiliation to JNTUK, UGC autonomy, the establishment of research & innovation centers, incubation centers, centre of excellence, consultancy, startups and collaborations for higher studies and placements.

Participation of the teachers: Through participative management system, the faculty are involved in various decision making bodies like governing body, academic council, the board of studies,etc.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The case study of the preparation of Academic Planner

The institution functions with the method of decentralized governance system. The Head of the Department (HoD) has the authority to decide the activities and delegating responsibilities to the staff members. The department decides on the timetable, subject allocation, purchase and maintenance of equipment and consumables, organizing conferences, symposia, guest lectures, and workshops and recommends necessary industrial visits, in-plant training, internships, and MoUs.

. All the academic activities are decentralized and decisions are taken based on discussion and deliberations in the class committee meetings, department meetings, faculty meetings, and HoDs' meetings with Principal. The Principal coordinates through

the Internal Quality Assurance Cell (IQAC) with the departments, administration, and management.

Every year Academic Planner is prepared by IQAC, COE & HOD's the closure of the previous academic year.

Preparation of the next academic year with Working days/test days/model exam days, Department activities, Guest Lectures, Industrial Visits, Internships, Placement Training, Audit Days, FDPs / Workshops / Conferences, and all-day celebrations.

The Principal submits the final schedule to Academic Council for approval. All committees follow the same. Nearly 90% of the events as per schedule are conducted every year.

File Description	Documents
Upload strategic plan and deployment documents on the website	View File
Upload any additional information	No File Uploaded
Paste link for additional Information	http://www.swarnandhra.ac.in/about-us/strategic-plan/

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The prominent resources that the institution currently has

- **Well qualified and experienced faculty members**
- **State-of-the art Central Library**
- **Good infrastructure facilities with well-equipped laboratories and computer centres in every department**
- **Advanced Nano Research Centre, Big Data Analytics lab and 3-D printing Lab Training and Placement Cell**

Perspective Plan for the development of college:

- **Strengthen industry-institute interaction.**
- **Improvement of consultancy services.**
- **Increasing value-added certification courses.**
- **To be ranked in top 150 at prestigious NIRF Ranking.**
- **Getting the status of Deemed- to- be- University.**

- **Establishment of new innovation and incubation centers.**
- **Centre of Excellence. Creating an intense research ambiance in terms of establishing recognised R&D centres in all the departments.**

The following major deployments have been taken place after the accreditation

- **Standardizing the OBE based teaching-learning processes**
- **The department of ECE has been accredited third time by NBA.**
- **Establishment of Advanced Labs like 3D printing, IoT, ARC Lab, etc..**
- **Functional MOUs.**
- **Increase of intake in B.Tech-ECE, CSE and MECH. branches.**
- **Strengthen the alumni association.**
- **Recognised as NPTEL Local Chapter.**
- **Adoption of Choice Based Credit System (CBCS) in curriculum**
- **Recognized research centre for Mechanical Engineering department by JNTUK, Kakinada.**

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	http://www.swarnandhra.ac.in/about-us/strategic-plan/
Upload any additional information	**No File Uploaded**

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

The college has a well-framed internal organizational structure for decision making processes anddeveloped efficient internal coordinating and monitoring mechanisms. In cognizance with the educational needs and demands of the nation in general and beneficiaries of the college in particular, the goals are set through collaborative and collective efforts of various components of the institution. The governing body is the apex body, which defines academic and administrative policies . Minutes of the meetings are recorded and are available to the staff and students. The governing body communicates decisions to the faculty and staff through the principal. Academic Council, chaired by the Principal, is a statutory body, which approves

curriculum, examination schemes with the approval of governing body. BoS of each department works under the guidance of the HOD as chairman. Faculty members and experts of the BoS frame the curriculum. Other committees such as Institution Advisory Committee, College Academic Committee, Grievances Redressal Cell, Finance Committee, IQAC, Library Committee, Placement Committee, Anti-ragging committee, etc. work under the guidance of the head of the institution.

The powers and the functions of each authority are well defined to ensure administrative decentralization.

File Description	Documents
Paste link to Organogram on the institution webpage	https://swarnandhra.ac.in/about-us/govn-body/organogram.html
Upload any additional information	View File
Paste link for additional Information	https://swarnandhra.ac.in/aqar2021/postimages/Human-Resources%20policy.pdf.pdf

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

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

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

Employees Provident Fund as per PF rules

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

Group Insurance for staff members

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

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.**

Fee concession policy to staff children

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

Encashment of Earned Leaves

- **The employee in the institution is eligible to avail of ten earned leaves after completion of every year. These earned leaves are accumulated in the employees' account and can be encashed as per the institute service rules.**

Fee concession for Bus Transportation

Subsidized food facility

Subsidized accommodation

n addition to the above following are the welfare schemes available for the Teaching staff

Support to staff for higher education/research

Support to staff for attending workshops /conferences

Awards

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

29

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

236

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	No File Uploaded

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

23

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

The Institution has established a mechanism for conducting internal and external audits on financial transactions every year to ensure financial compliance. Internal audit is conducted half-yearly by the internal financial committee of the institution. The committee thoroughly verifies the income and expenditure details, and the compliance report of internal audit is submitted to the management of the institution through the principal. The external audit is conducted once in every year by an external agency.

Process of the internal audit:

An internal financial committee audits all vouchers on half yearly basis. The expenses incurred under different heads are thoroughly checked by verifying the bills and vouchers. If any discrepancy is found, thesame is brought to the notice of the principal. The same process is being followed for the last five years.

Process of the external audit:

The accounts of the college are audited by chartered accountant regularly as per the government rules. The auditor ensures that all payments are duly authorized after the audit, the report is sent to the management for review. Any queries, in the process of an audit would be attended immediately along with the supporting documents within the prescribed time limits.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	http://www.swarnandhra.ac.in/downlaods/20-home/downloads/747-audit-reports/#gsc.tab=0

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0

File Description	Documents
Annual statements of accounts	No File Uploaded
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	No File Uploaded
Any additional information	No File Uploaded

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

1.Institutional budget is prepared by the Principal every year taking into consideration of recurring and non-recurring expenditures.

2.Accordingly, all the administrative and academic heads are requested to submit the budget required for the subsequent financial year. Along with this all coordinators of different cells viz., R & D Cell, , etc. are instructed to submit their budget to Principal.

3.All the major financial decisions are taken by the Management and Governing Body (GB).

Utilization of funds:

1.Institution adheres to the Utilization of budget approved for academic expenses and administrative expenses by management.

2.After final approval of the budget, the purchasing process is

initiated by the purchase committee, which includes all head of departments and account officer, accordingly, the quotations called and after the negotiations purchase orders are placed.

3.The payments are released after the delivery of the respective goods. It is done as per the terms and conditions mentioned in the purchase order. 4.All transactions have transparency through bills and vouchers. The bill payments are passed after testing and verification of items.

5.The entire process of the procurement of the material is monitored by the purchase committee, principal and the accounts department.

6.Internal and external financial audits are conducted in every financial year to verify the compliance.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	http://www.swarnandhra.ac.in/admissions/fee-structure/#gsc.tab=0

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

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

- Ensuring timely, efficient and progressive performance of academic, administrative and financial tasks.
- The relevance and quality of academic and research programmes.
- Equitable access to and affordability of academic programmes for various sections of society.
- Optimization and integration of modern methods of teaching and learning.

Some of the functions expected from IQAC are:

- Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution.
- Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes.
- Dissemination of information on various quality parameters of higher education.
- Documentation of the various programmes/activities leading to quality improvement.
- Preparation of the Annual Quality Assurance Report (AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC

IQAC has contributed significantly to institutionalizing the quality assurance strategies and processes, following are the results of IQAC initiatives for the past five years:

- Extention of AUTONOMOUS Status sanctioned for five years (2021 to 2026)
- Participation in NIRF
- Energy Audit
- Green Audit
- Environmental Audit
- Academic and Adiministrative Audit
- ISO Certification

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	https://swarnandhra.ac.in/iqac.html

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

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.**
- **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:

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

IQAC has contributed significantly to institutionalizing the quality assurance strategies and processes, following are the results of IQAC initiatives for the past five years:

- **Extention of Autonomous status by UGC**
- **Incubation centre for IOT established in our college premises.**
- **Entrepreneurship Cell started for motivating young entrepreneurs from the rural community**
- **Smart classrooms were installed in all the departments**
- **Language lab for communication started for students and staff members as well as added in our curriculum.**
- **Yoga and martial arts programmes conducted frequently for students and staff members**
- **Publications of faculty and students are provided in the Library**
- **Value added courses**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://swarnandhra.ac.in/iqac.html

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://swarnandhra.ac.in/iqac.html
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

In our institute, we provide equal opportunity to both male and female students in all curricular and co-curricular activities conducted within the campus and outside the campus.

Safety and Security

- **The Institution follows a 33.3% reservation for girls as per the Government of Andhra Pradesh norms.**
- **24 security personals provide security inside the campus.**

- Three woman wardens are at the girls' hostel round the clock.
- The college woman's forum conducts frequent health awareness programs.
- Women Grievance Cell provides a convenient opportunity for girl students to raise the problems of harassment, preserving anonymity events.
- There is a separate dining hall for day scholar girls students, independent sports facilities.
- Closed-circuit camera (C.C.C.) surveillance is in the institution.

Counseling: The institution has arranged individual advice for students

1. Counseling related to academics

2. Counseling related to career

3. Information about behavior and attitude

Common rooms: There are three ladies waiting halls as common rooms in the institution. The common rooms are possessed chairs, tables, adequately furnished with electric and sanitary fittings.

As part of N.S.S. activities, free multi-specialty medical camps organized in neighboring villages, which help transform rural women in building awareness about health, hygiene, the importance of child education.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://swarnandhra.ac.in/aqar2021/postimages/7.1.1.pdf.pdf

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment	A. Any 4 or All of the above

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

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Solid waste management:

The Institution is actively involved in the CLEAN-AND-GREEN campaign of national fame, a subject in which it had already taken keen interest from the year of inception in 2001. The floor safai workers in each floor collect and segregate the waste, and are taken to the dumping yard within the institution. The vendor collects the waste and disposes of them at the landfill site authorized by the municipality.

Recyclable wastes like pet bottles, cartons and stationery are collected which is periodically sold to vendors for recycling.

Liquid waste management:

The liquid waste water is used for horticulture and gardening. The chemicals from laboratories are well neutralized before sending into drains.

Hazardous Lab Waste (E-waste):

All electrical waste are stored separately in a shed. Steel plates are used instead of paper and plastic plates, steel spoons replace the plastic spoons in the canteen.

Flip flops, memory chips, motherboard, compact discs, cartridges etc generated by computers, 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. In some cases, the used computers generously donated to nearby primary schools.

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

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus	**A. Any 4 or all of the above**

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: **1. Restricted entry of automobiles** **2. Use of bicycles/ Battery-powered vehicles** **3. Pedestrian-friendly pathways** **4. Ban on use of plastic** **5. Landscaping**	**A. Any 4 or All of the above**

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

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. **Green audit** 2. **Energy audit** 3. **Environment audit** 4. **Clean and green campus recognitions/awards** 5. **Beyond the campus environmental promotional activities**	**B. Any 3 of the above**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	No File Uploaded
Any other relevant information	View File

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.	**A. Any 4 or all of the above**

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	No File Uploaded
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The institution is highly committed to promoting an inclusive environment towards tolerance and harmony. It initiates efforts in developing cultural, regional, linguistic, communal, socio-economic, and other diversities in our students as well as faculty. The institutional efforts/initiatives in the regard are as follows:

In 2014, the Government of India introduced Rashtriya Ekta Diwas or National Unity Day on 31st October intending to pay tribute to Sardar Vallabhbhai Patel on his birth anniversary. On this day, 'National unity pledge' is taken by all teaching, non-teaching members, including students.

The used computers, few furniture of reusable also donated to nearby primary schools.

In developing harmony and tolerance, students, along with few faculty members, celebrate Independence Day or republic day with Deaf &Dumb school children.

To become responsible citizens of the country, our institute organizes personality development programs.

At our institution, to go with more tolerance and linguistic diversities among students and faculty specialized coaching by people like Dr.K.V.Subba Raju, Dr.K. Balaji Reddy, Rajesh Murthy organized.

At our institution, we have student-owned non-governmental organizations like AACHRANA, NEW CLOURS with the help of

management, and staff students donate money and needy groceries to poor people and also blood donation programs running.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

The Fundamental Rights, Directive Principles of State Policy and Fundamental Duties are sections of the Constitution of India that prescribe the fundamental obligations of the State to its citizens and the duties and the rights of the citizens to the State.

The Constitution Day (National Law Day), . In our institution, we take the pledge to follow fundamental duties in our life. On thisday, the preamble of the constitution was read out by all students and staff.

National Voters' Day is celebrated on January 25 every year from the year 2011on wards, to encourage more young voters to take part in the political process. Such likely voters would be enrolled on time and handed over their Electoral Photo Identity Card (EPIC) on January 25 every year.

The Road Safety Week (At our institute, we took a rally in the nearby municipality with the help of NSS wing and distribute pamphlets to wear a helmet while driving and safety guidelines to prevent road accidents.

The Van Mahotsav (National Festival of Tree Planting) in India is held annually from July 1 to July 7 and is celebrated every year

The National Education Day observed on November 11 from the year. Our students go to nearby villages and spread the message of education to all as well as digitization importance.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

A. All of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

Independence Day . As the tricolour goes up a top in front of the central library building of our institution all the students salute with reverence and pride and sing the national anthem followed by the chief guest message.

Republic Day

Dr Mokshagundam visvesvaraya birthday (Engineer’s day): Every year on September 15 all the departments of our institution celebrates “Engineer's Day”.

Dr Sarvepalli Radhakrishnan birthday (Teacher's Day) is the day which is celebrated to honour the teachers. I

Gandhi Jayanthi is a national festival celebrated to mark the occasion of the birthday of Mohandas Karamchand Gandhi.

Mathematics Day is observed on December 22 every year. It is celebrated in order to honour the birth anniversary of the famous mathematician Sir Srinivasa Ramanujan.

- **International Women's Day celebrations on March 8th every year are organized for girl students and female faculty.**
- **International day of yoga i**
- **Sankranthi sambarallu is one of the most important festivals of Andhra Pradesh. At our institution ever four years once we celebrate it with traditionally.**

World Water Day is organized by the environmental club of our institution every year on 22nd March. T

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

PRACTICE-I

Title of the Practice

Course Coordinator-Ship: An Effective Mechanism in Outcome Based Education

Objectives of the Practice

Outcome based education (OBE) is a student centred instruction that focuses on measuring student

The evaluation process includes many terminologies such as, Program Educational Objectives (PEO), Program Outcomes (PO) andCourse Outcomes (CO), different roles were considered to implement and execute the outcome based education process. Out of which Course Coordinators are an effective role for execution of activities under various modules of the program. Therefore, Swarnandhra College of Engineering and Technology (SCET) has been practicing course coordinator ship effectively to shift the focus of education from educator to learner with the following objectives:

- **To set high academic content standards**
- **To design curriculum and course works more efficiently**
- **To maintain high transparency in student assessments**
- **To provide core support and essential autonomies for students**

PRACTICE-II

Title of the Practice

Employability Skills Enhancement Program- an innovative approach

Objectives of the Practice

The objective of this practice is to provide training to all branches of the students during pre-final year, semester break and final year to enhance employability skills.

web link for best practices

https://swarnandhra.ac.in/best-practices/index.html

File Description	Documents
Best practices in the Institutional website	https://swarnandhra.ac.in/best-practices/index.html
Any other relevant information	Nil

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

**The implementation of distinctiveness actions are listed below.
1. Our institution is the first of its kind having "Nanotechnology Research Centre" established in collaboration with International Accreditation Council of Quality Education and Research with the equipment worth of Rs.61.46 lakhs.**

In Andhra Pradesh, this college is unique to have well-equipped research laboratory with the clean room facility in a self-financing affiliated college which is so broad and universal that they will influence all areas in the ways that are inevitably unpredictable where all department faculty are actively involved . Research grants received from UGC, AICTE, UGC-DAE, DST, DRDO and IACQER for the projects.

The green energy is promoted by installation of solar panels on all buildings of the institution for the generation of electricity and also solar water heater installed on the hostel buildings.Centre of Excellence / Incubation centre was established by the department of Information Technology in collaboration with SMARAGDINE Technologies Pvt. Ltd, Hyderabad.

Applied Robotic Control lab was established, with the collaboration of APSSDC & ECM Germany, specialised training is giving to bridge the gap between students and industry with two Advanced Robots.

3D experience lab was established in collaboration with Dassault Systemes and APSSDC

File Description	Documents
Appropriate link in the institutional website	Nil
Any other relevant information	No File Uploaded

7.3.2 - Plan of action for the next academic year

Preparation for NAAC "A+" Grade

Ratifiacation of faculty from JNTUK, Kakinada

Participation in NIRF Ranking

Participation in AtalRankingof Institutions on Innovation Achievements (ARIIA)

Existing asphalt Roads are to be replaced with cement Roads

Improvement in WIFI up to 800 MBPS

Regular academic and adminstrative audits

improvement of quality based on feedback form stake holders

NAAC