



YEARLY STATUS REPORT - 2023-2024

Part A

Data of the Institution

1.Name of the Institution	
	SWARNANDHRA COLLEGE OF ENGINEERING AND 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.	9121214503
• Mobile No. (Principal)	8883228722
• 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/data/AOAR/AOARREPORT2022-2023.pdf				
4.Was the Academic Calendar prepared for that year?	Yes				
• if yes, whether it is uploaded in the Institutional website Web link:	https://www.swarnandhra.ac.in/swarnandhraexaminationportal/B.Tech%20Academic%20Calendar%202023-2024.pdf				
5.Accreditation Details					
Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 2	A	3.02	2022	15/02/2022	14/02/2027
6.Date of Establishment of IQAC			31/03/2013		
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	Nil	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				

<ul style="list-style-type: none"> Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website? 	Yes	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> If yes, mention the amount 		
11. Significant contributions made by IQAC during the current year (maximum five bullets)		
GOT NAAC ACCREDITATION WITH A GRADE CGPA 3.02		
AQAR Submission		
NIRF Submission		
IIC PARTICIPATED (GOT 2 STAR RANKING)		
Academic and Administrative Audit		
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	
<ul style="list-style-type: none"> Name of the statutory body 		
Name of the statutory body	Date of meeting(s)	
GOVERNING BODY MEETING	30/03/2024	
14. Was the institutional data submitted to AISHE ?	Yes	

- Year

Year	Date of Submission
2023-2024	20/01/2025

15. Multidisciplinary / interdisciplinary

Our institution implementing multidisciplinary/Interdisciplinary courses in the curriculum as open electives. In R20 Regulations Minor Degree concept is introduced that is a mechanical Engineering student who is having more the 7.5 CGPA can study computer science engineering as minor degree course. In curriculum other branch courses as per the requirement is included as a part of projects, internships multidisciplinary concepts are encouraged. ARC training is conducted for mechanical and electronics and communication engineering students as a part of multidisciplinary. SOLAR Energy Work shop conducted for EEE & MECH students centralised IoT and FABRICATION labs are established. Centralized computer lab is provided for training the students in latest software technologies.

16. Academic bank of credits (ABC):

Academic Bank of Credits has been established on the lines of the National Academic Depository (NAD), in the sense, NAD is the backbone of ABC, where the students' academic data are held and academic awards are stored (i.e. storehouse of academic awards). Despite the fact that ABC enables students to register or commence credit transfer, the final outcomes of credit redemption and issuance of certificates, as well as the compilation of award records, are administered by academic institutions via the NAD Platform. Hence being the owner of academic awards, Academic Institutions must mandatorily register themselves under ABC via NAD. Our institution uploaded academic credits of students in the portal.

17. Skill development:

Skill and knowledge are the motivating forces of growth and economic development of country. Today industry is facing severe shortage of skilled Manpower. The accelerated growth has only increased the demand for skilled manpower. The responsibilities and functions shall include (but not limited to) the followings: 1. To provide the platform which will cater the services in professional skill development, these will be helpful to industries to get skilled manpower. 2. To provide the platform to learn skill-oriented courses under various schemes of Govt. of India and Govt. of Andhra Pradesh.

This provides opportunity to all students in society to learn various skill-oriented courses. This is helping them in their placements. 3. To evaluate the performance of the skill development programs in objective manner. 4. To increase the capacity and capability of the existing system in order to ensure equitable access for all. 5. To foster excellence in skill development centre, building effectiveness in delivering competency-based training, and to enable trainees and other stakeholders to make informed choices with regard to skill development centre. The Skill Development Cell Coordinator shall work in coordination with related to the Cell. other Cell Coordinators and HODs. Further, he/she shall be responsible for suggesting budgetary provision for activities. Following Capability and Skill Enhancement activities are organised for improving student's capability 1. Soft skills 2. Language and communication skills 3. Life skills (Yoga, physical fitness, health, and hygiene) Our institution implementing skill development programmes for the students. We included soft skills and aptitude trainings in the curriculum. apart from the curriculum we are conducting training programmes on technical skills, core soft skills, and life skills. We have MoU with APSSDC (Andhrapradesh State Skill Development Corporation). Under APSSDC Periodically we are conducting training on advanced courses. Yoga, Motivation Classes etc., are conducting for improving the life skills. our students are doing virtual internship on latest skills AWS, Salesforce, Data structures, etc., through E Pragathi portal. Our training department conducting the guest lectures from various industry professionals to improve professional skills.

18. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

India is reached the pinnacle of advanced development in all sectors; but at the same time there is detachment from our belief and fall in values. Our ancient education system focused on the holistic development of the individual and emphasized on values such as humility, truthfulness, discipline, self-reliance and respect for all creations. At present our education system is reeling under the ills of Westernization, excessive privatization and an exclusion from its cultural underpinnings. It's high time that Indian educational system should be strived for quality and equitable education for all level students by extending stimulating courses on Indian Knowledge, which help them to know the importance of "doing what's right", with a logical framework for making ethical decisions. Therefore, all curriculum and pedagogy, from the foundational stage onwards needs to be redesigned which is strongly rooted in the Indian and local context and ethos in terms of

culture, traditions and language. Cultural awareness and expression are the major competencies considered important to develop among children, as those inculcate strong sense and knowledge of their own cultural history, arts, languages, traditions and develop a positive cultural identity, self-esteem. Besides this, it enhances cognitive and creative abilities in individuals and increase individual happiness. Indian educational institutions like Nalanda, Takshila, Vikramshila, etc., these institutions were not just mediums for providing education but they were the embodiment of Indian ethos and philosophy too. Institutions of such stature with multidisciplinary approach offer learning for today's education system, as it is the kind of education that required for the 21st century. The promotion of Indian arts and culture is seen very important and it could be effectively imparted through integrating Indian arts into the main curriculum which would not only develop a strong sense of identity and aesthetic outlook but also enhances creative and cognitive skills among the students. Online Portals, Web Page It is obvious that using portal or wiki as web based platforms to display all Indian languages and their culture is the best way to preserve from endangering the rich local arts and culture. These platforms will consist of dictionaries, videos, recordings, people (especially elders) speaking the language, reciting poetry, telling stories, and performing folk songs, plays, dance, and much more. There will be open platform provided for common people to provide a high-level knowledge of the language will also be invited to contribute to the portal and add their own learning resources. Universities and their research team take the onus to develop these web portals. Language Vocabulary & Dictionary It was resolved that the academics will be implemented for all the languages and high-level language proficient will be employed as mentors to teach it. Dictionaries will be compiled by academicians for the respective languages to ease the learners in learning process. Journalism, speechmaking are the tasks which will be helpful to the student in enhancing his/her knowledge. The dictionaries will be available in physical (books, print etc.) as well as web formats. Promotion of Indian Language It is concluded that the promotion of Indian languages will be integrated into primary level and higher level education in every institution. High-quality of learning materials will be provided to the learners in the form of workbooks, textbooks, magazines, videos, poems, plays, novels, etc.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

The Program Outcomes (POs) are defined by the statutory body (NBA) to meet the global standards of education. Twelve POs are defined for the UG & PG programs. Two or three Program Specific Outcomes

(PSOs) are identified based on the strengths and expertise of the department. A Course Outcome (CO) is the expectation of the performance by the learner in a course. The course outcomes are mapped to the program outcomes and program specific outcomes. The Course outcomes are prepared by concerned faculty for their course using Bloom's Taxonomy Levels (BTLs) with the guidance of Course coordinator and ratified by the module coordinator. 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 Program Specific Outcomes are published in the following: Department website College website Curriculum / syllabus books Display boards Additionally, the dissemination of Program Specific Outcomes to all the stakeholders of the programme is done through student awareness / induction programmes, faculty meetings and parents meeting. The Programme Outcomes are published in the following: Department website College website Curriculum / syllabus books Display board

20.Distance education/online education:

National programme on technology enhanced learning (NPTEL) is a project of MHRD initiated by seven Indian institutes of technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee), along with the Indian Institute of science, Bangalore in 2003, to provide quality education to anyone interested in learning from the IITS. The main goal was to create web and video courses in all major branches of engineering and physical science at the under graduate and postgraduate levels and management courses at the postgraduate level. This NPTEL online certification courses since 2013, through an online portal, 4, 8, or 12 week online courses, typically on topics relevant to students in all years along with basic core courses in sciences and humanities with exposure to relevant tools and technologies are being offered and the local of this NPTEL platform is established in our Swarnandhra college of engineering

and technology on 29-0-2016 and has been running successfully with the students and faculty active participation since its inception. Since the inception of NPTEL local chapter in our Swarnandhra college of engineering and technology our students and faculty from all streams of engineering, basic sciences has Completed their courses which are offered twice a year (Jan-Jun, Jul Dec) and few of the participates ie both faculty and students has achieved a tangible end result to our happiness Few of them to share, most of the faculty members who have enrolled, not only cleared the exam successfully but also has secured gold and silver certification for their consistent intellectual efforts

Extended Profile

1.Programme

1.1	21
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Number of programmes offered during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.Student

2.1	4856
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Total number of students during the year:

File Description	Documents
Institutional data in Prescribed format	View File

2.2	774
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Number of outgoing / final year students during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File

2.3	4299
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Number of students who appeared for the examinations conducted by the institution during the year:

File Description	Documents
Institutional Data in Prescribed Format	View File
3.Academic	
3.1 Number of courses in all programmes during the year:	1278
File Description	Documents
Institutional Data in Prescribed Format	View File
3.2 Number of full-time teachers during the year:	291
File Description	Documents
Institutional Data in Prescribed Format	View File
3.3 Number of sanctioned posts for the year:	291
4.Institution	
4.1 Number of seats earmarked for reserved categories as per GOI/State Government during the year:	524
4.2 Total number of Classrooms and Seminar halls	113
4.3 Total number of computers on campus for academic purposes	1901
4.4 Total expenditure, excluding salary, during the year (INR in Lakhs):	162.84

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/academics/uploads/37edbabfd7b2621c0e3d8996cb913495.pdf

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

12

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

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

1092

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	No File Uploaded

1.2 - Academic Flexibility

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

58

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

322

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

1.3 - Curriculum Enrichment

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 analysed 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 protecting nature. 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	No File Uploaded

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

18

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

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

4054

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

1092

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 **A. All 4 of the above**

**from 1) Students 2) Teachers 3) Employers
and 4) Alumni**

File Description	Documents
Provide the URL for stakeholders' feedback report	https://www.swarnandhra.ac.in/feedback/
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://www.swarnandhra.ac.in/feedback/
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

1691

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)

895

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 & Remedial 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
01/06/2023	4856	315

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 whenever required 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 groups relating 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://www.swarnandhra.ac.in/smartclassrooms.php
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

315

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	No File Uploaded

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

315

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

11

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)

315

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

18

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

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	No File Uploaded
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	https://www.swarnandhra.ac.in/swarnandhraexaminationportal/

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	No File Uploaded
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 Program 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	https://swarnandhra.ac.in/academics/uploads/82d293d6cbf20803fea00b74ed443479.pdf

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

982

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	https://www.swarnandhra.ac.in/swarnandhraexaminationportal/annualreports.php

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://www.swarnandhra.ac.in/feedback/visualreports.php>

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

Research is the backbone of the society. To strengthen our country in research activities, every academic Institution should have the vibrant research activities. The promotion of research is important 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 in our college 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 motivated to publish papers and present in reputed Journals and conferences respectively with seed money.
- Publications in reputed journals are rewarded with attractive cash incentives to motivate the faculty.
- Faculty members are encouraged to enrol in a Ph.D. program.
- Faculty members are encouraged to avail seed money to carry out their research work.
- 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 members are provided with excellent computational facilities to carry out the simulation study.
- The budget can be allocated to carry out the research work.
- Workload can be curtailed those who have registered parttime Ph.D.'s 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://www.swarnandhra.ac.in/researchpromotionpolicy.php
Any additional information	View File

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)

17.77

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
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

6

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.

Creativity and Design Thinking plays an important role towards novel Innovations. Our institution promotes an innovative incubation centre on campus to our encourage students to come up with innovative ideas. The Innovation centre helps the students to develop their ideas into products. Our Institution developed the Institution Innovation Council (IIC) to motivate the students by conducting various programs as prescribed by the Ministry of Education, New Delhi, India. 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 centre. To reinforce entrepreneurship among the student community, an incubation centre has been established with the support of the Andhra Pradesh State Skill Development Corporation (APSSDC).

The various programs organized by the institution through the centre are as follows:

- Internet of Things (IoT)
- Full Stack Web Development
- Mobile App Development
- 3D Experience Lab by Dassault Systems
- Entrepreneur Awareness
- Python Programming
- Printed Circuit Board (PCB)
- Training TCS NQT Training

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

Kakinada. Nano Technology Research laboratory was established in 2009. It carries out research in the fields of VLSI, Nanomaterials, signal processing, communication systems etc. UVVIS Spectro Photometer installed for the characterization study of reflection, transmission and absorption of the prepared micro and nanomaterial 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

7

File Description	Documents
Report of the events	No File Uploaded
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

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 B. Any 3 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

5

File Description	Documents
URL to the research page on HEI website	https://www.swarnandhra.ac.in/aboutresearch.php
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

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

66

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

623

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

12

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
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

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	No File Uploaded
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

Every student should have societal responsibility along with academics. Keeping this point in view, Swarnandhra College of Engineering & Technology (SCET) has been instilling a culture of social responsibility within the students and creating 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 Enrolment Program
- Social consent 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

11

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

27

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

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

4175

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

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

108

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

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)

9

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
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 35.10 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 75 well-furnished classrooms, three AC Seminar Halls, one AC Conference Hall, 90 Well-equipped Laboratories, four Drawing Halls, two English communication skills labs, Six Research Laboratories, nine e-class rooms, 31 LCD Projectors, Central Library along with Departmental Libraries, Digital Library, Internet Centre, 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 9,995 titles and 70,195 volumes. It subscribes 469 National and 84 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 1460 computers and nine servers for their maintenance. In separate computer centre,

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.swarnandhra.ac.in/collegevideo.php

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: The institution has a big playground consists of excellent outdoor courts which are useful to play sports and games, viz., cricket, football, volleyball and athletics, etc. Students interested in these are given special training by trainers along with the Physical Education Department staff to develop the skills of students. Different sports activities have been performed at the institution level, inter-collegiate, interuniversity, inter-state and national level. Many students have participated in different events at inter-university. Many of them received awards at different events.

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

2

2

High Jump and Long Jump Pit

540

6

3

Cricket

6400

40

4

Volley Ball Court

1265

30

5

Throw Ball Court

510

20

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)

560

10

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

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

126

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)

229.86

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

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 (V 10.0.9.23). 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, and N-LIST is very useful to students. The digital library has access to e-journals like IEEE, SPRINGER, and J-GATE.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.swarnandhra.ac.in/aboutlibrary.php

4.2.2 - Institution has access to the following: e- A. Any 4 or more of the above journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

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)

11.33

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

357

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://www.swarnandhra.ac.in/itpolicy.php

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4943	1931

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. 250 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: **B. Any three of the above**
Facilities available for e-content development
Media Centre
Audio-Visual Centre
Lecture Capturing System (LCS)
Mixing equipments and software for editing

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.swarnandhra.ac.in/mediacentre.php
List of facilities for e-content development (Data Template)	View File

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)

308.99

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.

Maintenance Management System That is subdivided as Physical, Academic and Support facilities. The institution made a provision in the budget for the maintenance of its physical and academic support facilities.

Classrooms: Use of non-dust chalks. Daily sweeping of classrooms
Blackboard cleaning

Laboratories - Maintenance & Utilization:

A preventive maintenance plan is followed in laboratories. 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:

Students are well encouraged to participate in extracurricular activities, sports, and games. sports and games, viz., Cricket, Students are well encouraged to participate in extracurricular activities, sports, and games. sports and games, viz., Cricket.

Hostels: The institution has a separate hostel facility for boys and girls along with a gymnasium. The hostel wardens look after the maintenance of the hostels and mess assuring the quality and hygiene in the surroundings.

Computer Systems Maintenance:

There is a group of system maintenance committee, headed by a senior faculty, with a mandate to recommend to the management the need for upgrading existing machines.

Internet and Wi-Fi: System administrator and a team of technicians look after the maintenance of daily bandwidth.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://swarnandhra.ac.in/academics/uploads/04376c602d96eeb6b0cb18cf930dca11.pdf

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

2559

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

178

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://www.swarnandhra.ac.in/
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

452

File Description	Documents
Any additional information	View File
Number of students benefitted 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

452

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

25

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

8

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

18

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.

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://www.swarnandhra.ac.in/committees.php

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

45

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	View File

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 the gap 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://www.swarnandhra.ac.in/alumniportal.php

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	https://www.swarnandhra.ac.in/visionmission.php

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	https://www.swarnandhra.ac.in/strategic_plan.php

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	https://www.swarnandhra.ac.in/strategic_plan.php
Upload any additional information	View File

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 and developed 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://www.swarnandhra.ac.in/organogram.php
Upload any additional information	View File
Paste link for additional Information	Nil

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

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

6

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

97

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

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.)

32

File Description	Documents
Summary of the IQAC report	No File Uploaded
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 halfyearly 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, the same 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	https://www.swarnandhra.ac.in/igac.php

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	https://www.swarnandhra.ac.in/strategic_plan.php

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:

- Extension of AUTONOMOUS Status sanctioned for five years (2021 to 2026)
- Participation in NIRF
- Energy Audit
- Green Audit

- Environmental Audit
- Academic and Administrative Audit
- NAAC Second Cycle Accredited with A Grade(15.02.2022 to 15.02.2027)
- IIC is reactivated and got two star rating.
- Faculty encouraged to publish and grant the PATENTS

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

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:

- 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://www.swarnandhra.ac.in/igac.php

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://www.swarnandhra.ac.in/igac.php
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

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

Safety and Security

- The Institution follows a 33.3% reservation for girls as per the Government of Andhra Pradesh norms.
- 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.
- Closed-circuit camera (C.C.C.) surveillance is in the institution.

Women counselling:

One faculty member allotted as a counsellor for 15 girl students. Girl students should meet the counsellor once a week.

We monitor the identification of depression and abnormal behaviour patterns in the student's behaviour frequently such students taken to the counselling cells for individual counselling by a psychiatrist.

The girls club has a mission to empower women, girls in academia through imparting educational, awareness training programs to strengthen them towards leadership and self- motivation and also competent in their career and life.

Common rooms: There are 6 ladies waiting halls as common rooms in the institution. The common rooms are possessed chairs, tables, adequately furnished with electric and sanitary fittings. These are equipped with sanitary napkin vending machines as well as inclinators for used sanitary napkins.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://swarnandhra.ac.in/academics/uploads/a7da406884990a1b84f57557c020ceb9.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

A. Any 4 or All of the above

conservation Use of LED bulbs/ power-efficient equipment

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 **B. Any 3 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 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).

Our institution along with faculty , students and other staff participated in the following events which resembles our institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. The institutional efforts/initiatives in the regard are as follows:

"Meri Maati Mera Desh" envisions a unified celebration of India's soil and valour, commemorating the nation's journey of freedom and progress, we celebrate it on 20-07-2023.

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.

A few events or activities conducted at our institute are Legal Literacy Camp (10-08-2023), NATION FIRST (22-08-2023), One Nation One Election (13-09-2023), Bhagat singh Birth day celebrations (30-09-2023), Ganesh Chaturthi (19-09-2023).

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, etc.

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 Constitution Day (National Law Day), also known as "Samvidhan Divas," is celebrated in India on November 26 every year to commemorate the adoption of the Constitution of India. On November 26, 1949, the Constituent Assembly of India adopted the Constitution of India, and it came into effect on January 26, 1950. In our institution, we take the pledge to follow fundamental duties in our life. On this day, the preamble of the constitution was read out by all students and staff.

National Youth Day is celebrated on January 12 every year to mark the birth anniversary of Swami Vivekananda "great Indian youth icon". Swami Vivekananda accorded great importance to youth power towards nation-building and universal brotherhood. Swami Ji considered education to be a continuous process in which all aspects of life, such as physical, intellectual, emotional, mortal and spiritual should be imbibed. His contribution to the creation of a new modern India is incredible,"

Born on September 28, 1907, Bhagat Singh was raised with a deep sense of patriotism. His birth anniversary is celebrated nationwide with great enthusiasm. Fueled by a fiery spirit and a profound desire for freedom, Bhagat Singh dedicated his life to opposing British colonial rule.

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 **A. All of the above**

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

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

.Every year Swarnandhra College of Engineering and Technology organizes national and international commemorative days, events and festivals.

- Independence Day is annually celebrated on 15th August; on this day students organize flag hoisting ceremony. The air is filled with patriotic feelings that emit from various songs aired on the campus through a public addressing system. As the tricolor 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 honours the date on which the Constitution of India came into effect from 26 January 1950. The programme consists of patriotic songs sung by students and speeches eulogizing the great sacrifices made by our freedom fighters followed by the guest of honour's message.

- Dr Mokshagundam visvesvaraya birthday (Engineer's day): .

- Dr Sarvepalli Radhakrishnan birthday (Teacher's Day)

- International Women's Day
- International day of yoga

- World Entrepreneurs' Day

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

weblink on the Institutional website:

<https://www.swarnandhra.ac.in/bestpractices.php>

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) and

Course 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://www.swarnandhra.ac.in/bestpractices.php>

File Description	Documents
Best practices in the Institutional website	https://www.swarnandhra.ac.in/bestpractices.php
Any other relevant information	https://www.swarnandhra.ac.in/bestpractices.php

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/academics/uploads/37edbabfd7b2621c0e3d8996cb913495.pdf

1.1.2 - Number of Programmes where syllabus revision was carried out during the year**12**

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	No File Uploaded

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year**1092**

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	No File Uploaded

1.2 - Academic Flexibility**1.2.1 - Number of new courses introduced across all programmes offered during the year****58**

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

322

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

1.3 - Curriculum Enrichment

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 analysed 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 protecting nature. 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	No File Uploaded

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

18

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

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

4054

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

1092

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://www.swarnandhra.ac.in/feedback/
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://www.swarnandhra.ac.in/feedback/
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

1691

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)

895

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 & Remedial 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
01/06/2023	4856	315

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 whenever required 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 groups relating 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://www.swarnandhra.ac.in/smartclassrooms.php
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

315

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	No File Uploaded

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

315

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

11

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)

315

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

18

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

0

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	No File Uploaded
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	https://www.swarnandhra.ac.in/swarnandhraexaminationportal/

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	No File Uploaded
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 Program 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	https://swarnandhra.ac.in/academics/uploads/82d293d6cbf20803fea00b74ed443479.pdf

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

982

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	https://www.swarnandhra.ac.in/swarnandhraexaminationportal/annualreports.php

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://www.swarnandhra.ac.in/feedback/visualreports.php>

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

Research is the backbone of the society. To strengthen our country in research activities, every academic Institution should have the vibrant research activities. The promotion of research is important 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 in our college 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 motivated to publish papers and present in reputed Journals and conferences respectively with seed money.
- Publications in reputed journals are rewarded with attractive cash incentives to motivate the faculty.
- Faculty members are encouraged to enrol in a Ph.D. program.
- Faculty members are encouraged to avail seed money to carry out their research work.
- 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 members are provided with excellent computational facilities to carry out the simulation study.
- The budget can be allocated to carry out the research work.
- Workload can be curtailed those who have registered parttime Ph.D.'s 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://www.swarnandhra.ac.in/researchpromotionpolicy.php
Any additional information	View File

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)

17.77

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	No File Uploaded
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

6

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.

Creativity and Design Thinking plays an important role towards novel Innovations. Our institution promotes an innovative incubation centre on campus to our encourage students to come up with innovative ideas. The Innovation centre helps the students to develop their ideas into products. Our Institution developed the Institution Innovation Council (IIC) to motivate the students by conducting various programs as prescribed by the Ministry of Education, New Delhi, India. 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 centre. To reinforce entrepreneurship among the student community, an incubation centre has been established with the support of the Andhra Pradesh State Skill Development Corporation (APSSDC).

The various programs organized by the institution through the centre are as follows:

- Internet of Things (IoT)
- Full Stack Web Development
- Mobile App Development
- 3D Experience Lab by Dassault Systems
- Entrepreneur Awareness
- Python Programming
- Printed Circuit Board (PCB)
- Training TCS NQT Training

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

Department has been recognized as a research centre by JNTUK, Kakinada. Nano Technology Research laboratory was established in 2009. It carries out research in the fields of VLSI, Nanomaterials, signal processing, communication systems etc. UVVIS Spectro Photometer installed for the characterization study of reflection, transmission and absorption of the prepared micro and nanomaterial 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

7

File Description	Documents
Report of the events	No File Uploaded
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

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

B. Any 3 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

5

File Description	Documents
URL to the research page on HEI website	https://www.swarnandhra.ac.in/aboutresearch.php
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	View File
Any additional information	No File Uploaded

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

66

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

623

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

12

File Description	Documents
Bibliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
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

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	No File Uploaded
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

Every student should have societal responsibility along with academics. Keeping this point in view, Swarnandhra College of Engineering & Technology (SCET) has been instilling a culture of social responsibility within the students and creating 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 Enrolment Program
- Social consent 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

11

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

27

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

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

4175

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

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**

108

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

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)

9

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	View File
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 35.10 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 75 well-furnished classrooms, three AC Seminar Halls, one AC Conference Hall, 90 Well-equipped Laboratories, four Drawing Halls, two English communication skills labs, Six Research Laboratories, nine e-class rooms, 31 LCD Projectors, Central Library along with Departmental Libraries, Digital Library, Internet Centre, 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 9,995 titles and 70,195 volumes. It subscribes 469 National and 84 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 1460 computers and nine servers for their maintenance. In separate computer centre,

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.swarnandhra.ac.in/collegevideo.php

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: The institution has a big playground consists of excellent outdoor courts which are useful to play sports and games, viz., cricket, football, volleyball and athletics, etc. Students interested in these are given special training by trainers along with the Physical Education Department staff to develop the skills of students. Different sports activities have been performed at the institution level, inter-collegiate,

interuniversity, inter-state and national level. Many students have participated in different events at inter-university. Many of them received awards at different events.

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

2

2

High Jump and Long Jump Pit

540

6

3

Cricket

6400

40

4

Volley Ball Court

1265

30

5

Throw Ball Court

510

20

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)

560

10

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

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

126

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)

229.86

File Description	Documents
Upload audited utilization statements	View File
Details of Expenditure, excluding salary, during the years	View File
Any additional information	No File Uploaded

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 (V 10.0.9.23). 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, and N-LIST is very useful to students. The digital library has access to e-journals like IEEE, SPRINGER, and J-GATE.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.swarnandhra.ac.in/aboutlibrary.php

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

A. Any 4 or more 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)

11.33

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

357

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://www.swarnandhra.ac.in/itpolicy.php

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
4943	1931

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. 250 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	View File
Paste link for additional information	https://www.swarnandhra.ac.in/mediacentre.php
List of facilities for e-content development (Data Template)	View File

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)

308.99

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.

Maintenance Management System That is subdivided as Physical, Academic and Support facilities. The institution made a provision in the budget for the maintenance of its physical and academic support facilities.

**Classrooms: Use of non-dust chalks. Daily sweeping of classrooms
Blackboard cleaning**

Laboratories - Maintenance & Utilization:

A preventive maintenance plan is followed in laboratories. 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:

Students are well encouraged to participate in extracurricular activities, sports, and games. sports and games, viz., Cricket, Students are well encouraged to participate in extracurricular activities, sports, and games. sports and games, viz., Cricket.

Hostels: The institution has a separate hostel facility for boys and girls along with a gymnasium. The hostel wardens look after the maintenance of the hostels and mess assuring the quality and hygiene in the surroundings.

Computer Systems Maintenance:

There is a group of system maintenance committee, headed by a senior faculty, with a mandate to recommend to the management the need for upgrading existing machines.

Internet and Wi-Fi: System administrator and a team of technicians look after the maintenance of daily bandwidth.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://swarnandhra.ac.in/academics/uploads/04376c602d96eeb6b0cb18cf930dca11.pdf

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

2559

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

178

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://www.swarnandhra.ac.in/
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	
452	
File Description	Documents
Any additional information	View File
Number of students benefitted 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	A. All of the above

through appropriate committees	
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	
452	
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	
25	
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	
8	

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

18

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.

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://www.swarnandhra.ac.in/committees.php

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

45

File Description	Documents
Report of the event	View File
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	View File

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 the gap 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://www.swarnandhra.ac.in/alumniportal.php

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	https://www.swarnandhra.ac.in/visionmission.php

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	https://www.swarnandhra.ac.in/strategic_plan.php

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	https://www.swarnandhra.ac.in/strategic_plan.php
Upload any additional information	View File

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 and developed 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://www.swarnandhra.ac.in/organogram.php
Upload any additional information	View File
Paste link for additional Information	Nil

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) Document	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

In 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

6

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

97

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

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.)

32

File Description	Documents
Summary of the IQAC report	No File Uploaded
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 halfyearly 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, the same 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	https://www.swarnandhra.ac.in/igac.php

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	https://www.swarnandhra.ac.in/strategic_plan.php

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:

- Extension of AUTONOMOUS Status sanctioned for five years (2021 to 2026)
- Participation in NIRF
- Energy Audit

- Green Audit
- Environmental Audit
- Academic and Administrative Audit
- NAAC Second Cycle Accredited with A Grade(15.02.2022 to 15.02.2027)
- IIC is reactivated and got two star rating.
- Faculty encouraged to publish and grant the PATENTS

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://www.swarnandhra.ac.in/igac.php

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:

- 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://www.swarnandhra.ac.in/iqac.php

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://www.swarnandhra.ac.in/iqac.php
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	View File

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

Safety and Security

- The Institution follows a 33.3% reservation for girls as per the Government of Andhra Pradesh norms.
- 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.
- Closed-circuit camera (C.C.C.) surveillance is in the institution.

Women counselling:

One faculty member allotted as a counsellor for 15 girl students. Girl students should meet the counsellor once a week.

We monitor the identification of depression and abnormal behaviour patterns in the student's behaviour frequently such students taken to the counselling cells for individual counselling by a psychiatrist.

The girls club has a mission to empower women, girls in academia through imparting educational, awareness training programs to strengthen them towards leadership and self- motivation and also competent in their career and life.

Common rooms: There are 6 ladies waiting halls as common rooms in the institution. The common rooms are possessed chairs, tables, adequately furnished with electric and sanitary fittings. These are equipped with sanitary napkin vending machines as well as inclinators for used sanitary napkins.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://swarnandhra.ac.in/academics/uploads/a7da406884990a1b84f57557c020ceb9.pdf

7.1.2 - The Institution has facilities for

A. Any 4 or All of the above

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

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	B. Any 3 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	

<p>7.1.6.1 - The institution’s initiatives to preserve and improve the environment and harness energy are confirmed through the following:</p> <ol style="list-style-type: none"> 1. Green audit 2. Energy audit 3.Environment audit 4.Clean and green campus recognitions/awards 5.Beyond the campus environmental promotional activities 	<p>B. Any 3 of the above</p>
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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

<p>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.</p>	<p>A. Any 4 or all of the above</p>
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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).

Our institution along with faculty , students and other staff participated in the following events which resembles our institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities. The institutional efforts/initiatives in the regard are as follows:

"Meri Maati Mera Desh" envisions a unified celebration of India's soil and valour, commemorating the nation's journey of freedom and progress, we celebrate it on 20-07-2023.

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.

A few events or activities conducted at our institute are Legal Literacy Camp (10-08-2023), NATION FIRST (22-08-2023), One Nation One Election (13-09-2023), Bhagat singh Birth day celebrations (30-09-2023), Ganesh Chaturthi (19-09-2023).

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, etc.

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	View File
<p>7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:</p> <p>The Constitution Day (National Law Day), also known as "Samvidhan Divas," is celebrated in India on November 26 every year to commemorate the adoption of the Constitution of India. On November 26, 1949, the Constituent Assembly of India adopted the Constitution of India, and it came into effect on January 26, 1950. In our institution, we take the pledge to follow fundamental duties in our life. On this day, the preamble of the constitution was read out by all students and staff.</p> <p>National Youth Day is celebrated on January 12 every year to mark the birth anniversary of Swami Vivekananda "great Indian youth icon". Swami Vivekananda accorded great importance to youth power towards nation-building and universal brotherhood. Swami Ji considered education to be a continuous process in which all aspects of life, such as physical, intellectual, emotional, mortal and spiritual should be imbibed. His contribution to the creation of a new modern India is incredible,"</p> <p>Born on September 28, 1907, Bhagat Singh was raised with a deep sense of patriotism. His birth anniversary is celebrated nationwide with great enthusiasm. Fueled by a fiery spirit and a profound desire for freedom, Bhagat Singh dedicated his life to opposing British colonial rule.</p>	
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	A. All of the above

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

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

.Every year Swarnandhra College of Engineering and Technology organizes national and international commemorative days, events and festivals.

- Independence Day is annually celebrated on 15th August; on this day students organize flag hoisting ceremony. The air is filled with patriotic feelings that emit from various songs aired on the campus through a public addressing system. As the tricolor 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 honours the date on which the Constitution of India came into effect from 26 January 1950. The programme consists of patriotic songs sung by students and speeches eulogizing the great sacrifices made by our freedom fighters followed by the guest of honour's message.

- Dr Mokshagundam visvesvaraya birthday (Engineer's day): .

- Dr Sarvepalli Radhakrishnan birthday (Teacher's Day)

- International Women's Day
- International day of yoga
- World Entrepreneurs' Day

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

weblink on the Institutional website:

<https://www.swarnandhra.ac.in/bestpractices.php>

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) and Course 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://www.swarnandhra.ac.in/bestpractices.php>

File Description	Documents
Best practices in the Institutional website	https://www.swarnandhra.ac.in/bestpractices.php
Any other relevant information	https://www.swarnandhra.ac.in/bestpractices.php

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	View File

7.3.2 - Plan of action for the next academic year

- 1.To strengthen industry-institute interaction.
2. Improvement of consultancy services.
3. Increasing value-added certification courses.
4. To be ranked in top 150 at prestigious NIRF ranking.
5. Extension of Academic Autonomy and continuation of accreditations. (NBA,NAAC)
6. Establishment of new innovation and incubation centres.
7. Centre of Excellence.
8. Creating an intense research ambiance in terms of establishing recognised R&D centres in all the departments.