

INSTITUTE STRATEGIC PLAN

The institutional strategic Plan for the next five years is prepared by a series of discussions involving the various stakeholders of the institute. It starts with the collection of the feedback from various stakeholders and discussion at the college level involving the representatives of the management, Principal, Deans and Head of the Departments. The key inputs are from the Strengths, Weakness, Opportunities and Threats (SWOT analysis) of the departments. Many brain storming sessions were conducted and finally the SWOT of the college as a whole is arrived at.

While deriving the SWOT the following factors were considered:

- The existing infrastructure including the classrooms, laboratories, Centre of Excellence, library, transport facility, sports facility and hostels
- Admission policies of the government and regulations of the various governing agencies like UGC, AICTE, affiliating university etc.,
- Requirement for the outcome based curriculum keeping in mind the challenges faced by the weak students and career opportunities for the bright students
- Focus required for bringing out the Industry ready engineers
- Inculcating the habit of life long learning to the students
- Skills to be acquired by the faculty to mentor the future students

The extract of the SWOT analysis of the college is given below:

Strengths:

1. Participative management, committed and dedicated faculty members and motivated students
2. Structured curriculum (Choice Based Credit System) with the industry focus
3. Focused academic activities with emphasis on outcome based education
4. Good placement track record over the years
5. Accreditation by National Assessment and Accreditation Council (NAAC) with 'A+' grade (2nd cycle) for five years (2022-2027)
6. Accreditation of the college by the industries like WIPRO and TCS

7. Recognition of four departments of the college as research centres to undertake research activities by the Anna University, Chennai
8. Robust and scalable IT infrastructure with around 2000 computers, 1024 Mbps Internet connectivity and campus wide Wi-fi facility
9. Ranked in the top 200 by NIRF during 2017-18

Weaknesses:

1. Reduced admissions for the PG programmes
2. Lesser funding from the government agencies for Research and Development

Opportunities:

1. Improving the quality of research with better industry institute relationships
2. Motivating the students to go for higher studies and appear for the Public Service Commission examinations
3. Getting all the programmes accredited
4. Improving the NIRF ranking

Threats:

1. Reduced interest among the students in choosing the core Engineering branches after schooling

Strategic Objectives:

A careful analysis of the SWOT leads to the objectives and action items as below:

- ✓ The institute is focusing on providing good, quality engineering education that leads to excellent career opportunities
- ✓ The effort to provide a conducive learning ambience encourages students to pursue higher studies and research also
- ✓ The pro-active management has taken up certain initiatives to make the institute become one of the leading, sought-after college through strategies listed

STRATEGY 1: Introducing innovative teaching-learning method like smart classrooms and campus wide availability of digital course content.

Action 1: Revision of the Curriculum and Syllabi regularly with a focus towards the future industry requirements and industry suggested electives

Action 2: Improving the skillsets of the faculty through various upskilling initiatives and by motivating them to participate in more FDPs at premier institutions

Action 3: Creating the Digital classrooms and making the course contents available in the digital form online. (14 Smart Classrooms and 55 Course contents are available online)

Action 4: To create well established assessment procedures for the students by including the GATE and competitive examination questions in their CIA Question Papers (Already introduced for 20% of the questions in the Question Papers)

GOAL 1: To convert all the conventional Classrooms into Digital Classrooms and make the contents of all the courses in the digital form online by AY 2024-25 onwards

GOAL 2: To have at least 30% of the students getting certifications like MOOC, NPTEL, SWAYAM, etc.. and appearing for the Competitive examinations like UPSC, IES etc.,

STRATEGY 2: Establishing Centres of Excellence in niche and emerging technologies and to enter into collaborative research through Industry - Institute partnerships.

Action 1: Centres of Excellences partially supported by industry is being set up and avenues are explored for more such centres. (Already 10 such CoEs are set and being used by the students

Action 2: An Industry Institute Interaction Cell has been created and avenues for more industry powered laboratories are being explored

GOAL 1: To increase the number of internship opportunities for the students in the industry and institutions of academic excellence. More number of MoUs with leading industries are in pipeline

GOAL 2: To increase the number of students pursuing higher studies and research in India and abroad

STRATEGY 3: By instituting seed money for incubating projects and innovative products through its incubation centre.

Action 1: To identify the faculty having inclination for research in their core domain and provide them with the seed money for making a prototype or for proving the concept

Action 2: To create necessary research facilities for carrying out the basic research and involve the students

GOAL 1: To improve the possibility of getting more research grants from government funding agencies with the concepts proven/innovated by faculty members

GOAL 2: To inculcate the habit of research among the students and motivate them to pursue their career in research at premier research organization across the globe

STRATEGY 4: Special focus on developing environment friendly and clean energy harvesting through solar and other forms.

Action: To establish solar PV system to cater the daily electricity needs of the institute. (Already a solar power plant of 50 kWp capacity has been installed)

GOAL: To become self-sufficient with the energy from non-conventional energy sources by 2025

STRATEGY 5: Creating endowments to fund for research and scholarly publications and organise events and programmes to encourage students and faculty.

Action 1: To create endowments to fund for popularizing the high quality research among the faculty by inviting eminent researchers from premier academic institutions

and industries. (10 such endowments are already tuned of around Rs 10,00,000/- (Rupees Ten Lakhs) from industries and Philanthropists)

Action 2: To use the endowments to carry out further research and publish more refereed articles

GOAL: To increase the endowments to the tune of around Rupees One Crore by 2025

STRATEGY 6: Developing pollution free energy pack such as batteries for solar and automotive applications.

Action 1: To promote research in the area of pollution free energy packs such as batteries by providing research support

Action 2: To motivate more students to carry out projects in the area of pollution free energy like solar/wind tree, Electric vehicle etc.,

GOAL: To produce highly competent engineers in the areas of the pollution free energy storage and utility which are considered to be the demands of the future society

STRATEGY 7: Improve academic interaction and participation of institutes / universities of national and international eminence in order to facilitate learning, innovation and research.

Action 1: To enhance MoU with premier industries and Institutes and foreign universities

Action 2: To create an engineering consultancy centre, catering the technical consultancy needs of industries. (A consultancy manual highlighting the strengths of the faculty has already been created)

Action 3: Enhance student and faculty capabilities to work with world class Institution/universities

GOAL: Each department to have at least five such MoUs to upskilling, student and faculty exchange and joint research by 2024