

Jayawantrao Sawant College of Engineering ,Pune

(Approved by AICTE & Affiliated to Savitribai Phule Pune University)

Strategic Plan of Institute 2018-2021

IQAC has prepared a strategic plan to enhance the academic, research, consultancy, extension, outreach, co-curricular and extra-curricular activities as against the set progress indicators and recommend the augmentation of necessary infrastructural facilities for achieving the long term goals and objectives of the department. These targets have been set with extensive consultation with all stakeholders – **Faculty, student, alumni, parent and employer.**

To prepare strategic plan, vision **mission, the values and culture within institute** are taken into consideration.

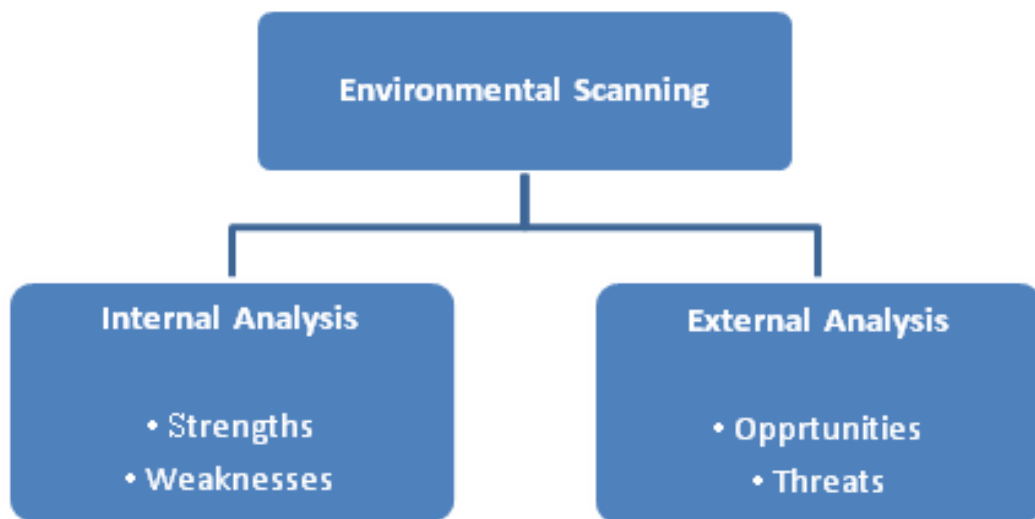
Process:

- 1.The IQAC coordinator with the help of institute head forms a group of people to decide prepare strategic plan. The group includes HODs, senior professor within the organization, representatives of stakeholder.
- 2.The group performs SWOT analysis. The SWOT document helps to meet future challenges. The group storming sessions are scheduled to discuss vision mission, goals and objective of the institute once in a year. The necessary changes are made in the statements based on requirements.
- 3.For this IQAC collects lot of data from various units. The result, placement, admission, research and finance data is collected to observe the previous trends in various domains.

4.The IQAC coordinator collects ideas from brainstorming session and prepare a rough document of planning. These goals objectives are refined with the help of IQAC team and based on its implementation plan is prepared.

5.The strategic plan is discussed in LMC and GB meetings. The suggestions from GB and LMC are integrated and final draft is shared with all the stakeholders.

SWOC ANALYSIS FRAMEWORK



Internal analysis:

- IQAC has collected qualitative and quantitative data from all institute units.
- Data on infrastructure, academic performance, teaching learning activities, training, research activities.etc.is collected from each department.
- The achievement of faculty and student at national, international level is collected
- Additional inputs are taken from training placement cell, entrepreneurship, III cell, admission cell, office etc.
- Feedback from stakeholder is recorded.

External analysis:

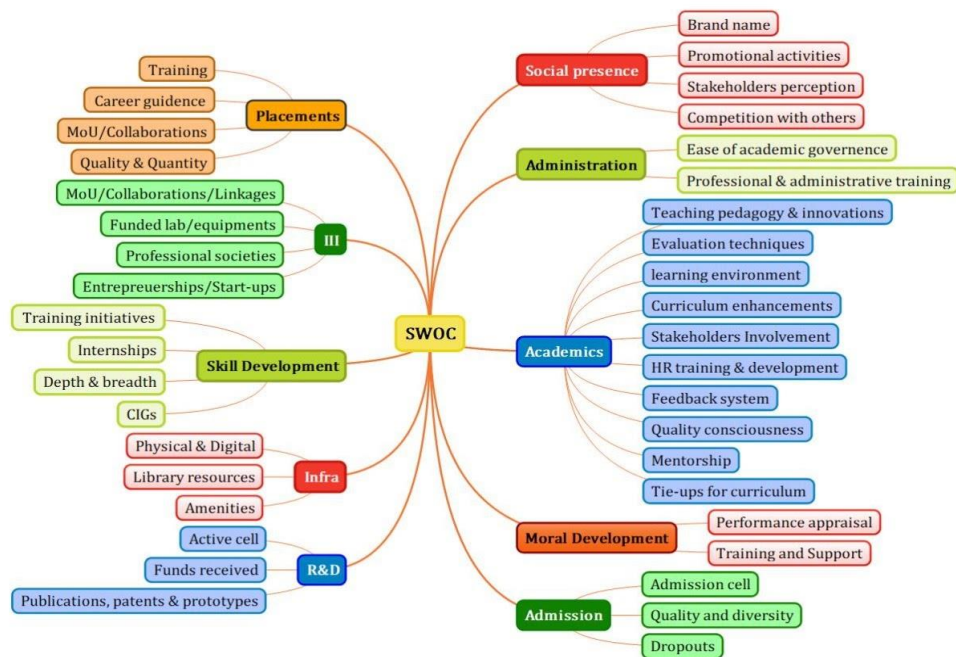
- Reports from AICTE,DTE and other national portals on changing educational policies(NEP-2020)
- Data on changing technology and industry demands
- Performance of other peer institute.

- New emerging opportunities in education field.

Procedure adopted for conducting the SWOC analysis:

1. SWOC analysis is carried out by all department involving all stakeholders.
2. Each department submits data on infrastructure, academic performance, teaching learning activities, training, research activities.etc.to IQAC
3. Departments submitted their departmental development plans to the Principal's office.
4. The institute SWOC analysis is done by IQAC coordinator along with committee members. Brainstorming sessions are conducted with the HODs and senior faculty.
- 5.

The following parameters are considered while doing SWOC analysis



Quantitative data

Department:

- 1.Academic results
- 2.Student enrolment/Admission
- 2.FDP attended/certification completed
- 3.Workshop/Conference/expert talk conducted

4. Infrastructure upgradation
5. Student participation in cocurricular and extracurricular (project completion/sport/cultural)
6. Faculty and student achievement
7. Alumni engagement
8. E content/ICT initiatives by faculty for last three years:

Research Data

1. Publication (national /intl)
2. consultancy
3. funding
4. patent data
5. Sponsored projects

III data

1. Entrepreneurship activities
2. MOU/linkages data
3. Internship
4. Industry visits

TP data

1. Trainings conducted
2. Higher studies/GATE competitive exam data
3. Placement record with in depth analysis
4. On campus off campus placement
5. Company visited
6. Avg,.package
7. Highest package

Social and cultural

1. Engagement in social activity.
2. NSS activities
3. Environment related initiatives
4. Project carried out in social interest
5. Cultural activities

Feedback and Mentoring

1. Feedback analysis of stakeholder

2. Mentoring data

After several brain storming sessions, the strengths, weaknesses, opportunities and challenges are identified:

Strengths:

- Visionary management team and transparent administrative set up.
- Qualified, experienced and dedicated teaching faculty with good retention ratio.
- Student centric functioning with mentoring, counseling and Effective academic monitoring through GFM's .
- ICT integration in T-L and pedagogical initiatives.
- Good academic results and consistently university toppers.
- Strong training and placement cell which resulted skill enhancement and consistent improvement in core industry placements.
- Good participation of students in Co-curricular and extra-curricular activities at National Level.
- Social inclusiveness (35 percent female candidates ,varied socio economic background)

Weaknesses

- The socio-economic background of many students admitted in the College leads to poor language competence.
- Moderate placement packages and low placement in core companies.
- Inadequate number of skilled supporting staff
- Poor enrolment for engineering PG programs IN LAST THREE YEARS.
- Need to improve library utilization and to upgrade library resources.
- Deepening of industry-academia partnerships in applied research needs to be encouraged.
- Less activities of student/faculty professional bodies as well as student chapters.

Opportunities

- Scope for interdisciplinary and sponsored projects.(smart cities).
- To build partnership and collaborative work amongst community/peer institute/ National R &D Labs
- To generate revenue through consultancy.
- Incorporation of blended learning and Improvement in online resources /digital content.
- Improve quality of research by applying research proposal to reputed institute.
- upskilling of faculty and student in new age technology using national and international online FDPs and certification courses.

- To add new programs (AI,data science)due to increasing demand.

Challenges:

- To get meritorious student from the region.
- To map curriculum with fast changing technology and skillset(lack flexibility as university syllabus is fixed for four year).
- To create positive reputation/brand in external world
- To shift student mindset from exam oriented approach to learning/skill enhancement approach.
- To improve research quality of publication.
- New private and online education institute give more flexibility and credit based course access.
- Reduced student engagement.

Summary: It is evident from the above analysis that institute has the potential to emerge as excellent centre of professional education. It has strategic intent, essential facilities and manpower for achieving its Vision.

Strategic Plan

After understanding the Strengths, weakness opportunities and threats for has developed the following strategic plan was drafted for the period 2018 to 2023 for transforming institute into a quality technical education institute in the region.

- To provide trained and skilled engineers to meet the current industry demands
- To obtain full accreditation for all UG program.
- To provide blended learning experience and use of ICT to improve quality of teaching and learning process.
- To enhance the research culture and entrepreneurship among students.
- To enhance collaborative activities with other reputed institute and sharing of resources with mutual tie ups.
- To extend academic help to assist academically weaker students.
- To train newly joined Faculties through faculty development Programmes and to upgrade skills of Technical Staff through regular training program.

- To Strengthen Industry/ Institute / Alumni Interaction for better placement and internship opportunities
- To engage in more social and eco-friendly project.

The objectives and expected outcomes are framed which are aligned with strategic plan.

1. **SP1:** To provide trained and skilled engineers to meet the current industry demands.

Objectives: To train students on current technologies.

To adopt project based learning and give assignments and case studies based on real life scenarios.

Expected outcome: Core Placement for all students.

Current status: 40 percent placement in core industries

2. **SP2:** To obtain full accreditation for all UG program.

Objectives: To implement outcome based education.

To assess the program outcome by taking regular feedback from stakeholders

Expected outcome: increase brand value. Improvement in quality admission

Current status: Students with low merit and poor communication skills.

3. **SP3:** To provide blended learning experience to improve quality of teaching and learning process.

Objectives: To integrate ICT tools

To use forum, social media and modern tools

Expected outcome: Familiarity with use of modern tools

Better understanding of complex concept with audio visual inputs.

Current status: Lack of ICT trained staff

4. **SP4:** To enhance the research culture and entrepreneurship among students.

Objectives:

- To provide incubation centre
- To publish papers in Scopus indexed journal
- To promote faculty for PhD program

Expected outcome:

- More entrepreneur from institute
- Quality publication

Current status: Lack of research funding and infrastructure

SP5: To extend academic help to assist academically weaker students.

Objectives: To arrange remedial lectures and provide personal guidance

To arrange training to improve communication skills

Expected outcome: Better performance in academics, better job opportunities

Current status: low performance in university exams.

SP6: To extend academic help to assist academically weaker students.

Objectives: To arrange remedial lectures and provide personal guidance

To arrange training to improve communication skills

Expected outcome: Better performance in academics, better job opportunities

Current status: Low performance in university exams.

SP7: To train newly joined Faculties through faculty development Programmes and to upgrade skills of Technical Staff through regular training program.

Objective: To organize faculty development programs for professional enhancement.

2. To arrange training programs for office staff to develop computer skills.

Current status: office staff is not skilful to handle advanced software to maintain document.

Newly joined faculty are not aware of outcome based education and accreditation process.