Strategy Development and Deployment

The institutional Strategic/Perspective plan is effectively deployed:

The Institute's quality policy is well conveyed from its vision and mission statements. Strategic plan and action plan are designed in such a manner that this quality policy is driven and deployed during every process. Each process is regularly reviewed by a monitoring mechanism.

In view of the strategic plans, the institute has perspective plan of advancement. This arrangement is made according to the necessities of the students and so as to oblige the requirements of the institute and the society. Following Major areas are covered in the plan as mentioned below:

- Plan to get Accreditation for each programme.
- To strengthen the implementation of Outcome Based Education in its various aspects by streamlining its processes and by use of a suitable software.
- To have recognition of research centre for PhD in every discipline.
- To increase MOU with industries.
- Strengthen of the research activities in the institute and motivate Faculty members to join more FDP STTP and to undergo industrial training.
- To increase the number of faculty having PhD qualification.
- Strengthen Industry Institute Interaction through IIICR Placement Cell.
- To achieve higher placements as compared with previous year in terms of quality as well as quantity by providing good training program, monitoring and control.
- Organizing International and National Conferences, Faculty Development Programmes, Workshop on Employability skills, Industrial Visit and Field Trips.
- Publishing research papers with more emphasis on quality papers in indexed Journals
- Submitting research proposals to various funding agencies.
- The ED Cell of the college will be strengthened by providing some more financial assistance for nurturing budding entrepreneurs into viable Business Entrepreneurs.

- Organization of Seminars/workshops on Personality Development of Nonteaching Staff.
- Improving quality of admitting students, through various counselling and career guidance session
- To implement the green campus.

Example of activity successfully implemented based on the strategic plan

1. **Implementation of Green Campus:**

- With the help of NSS cell & Sipna Nature Club of the college, various activities are organized to have a plastic-free campus. Steel plates, steel glasses or crystal glasses are used in the college canteen instead of Plastic plates and cups. Mineral water bottles are used occasionally. Used mineral water bottles are used for Drip Irrigation System. Paper bags are widely used in the college at the time of events.
- Green Landscaping with Trees and Plants : Sipna COET, has a huge lush green campus with lawns, various old fruit trees, plants, Lawn, Firewood trees, Floral trees and Fruit trees. Some of these trees are 22 years old. Inspire of this tree plantation in the college campus was done by the students as a responsibility towards Mother Nature.
- 'No Vehicle Day' is observed every year in Sipna College of Engineering and Technology, Amravati. On this day, students, teaching and non-teaching staff use bicycle or public transportation. The staff members are the members of Amravati Cycle Club, promoting benefits of cycling for conservation of environment by minimizing fuel pollution. This will also encourage the stakeholders to use public transportation system.
- Protecting the natural water bodies in and around the college campus & proper maintenance of rainwater harvesting system is to be implemented.
- Proper maintenance of waste management system. Solid waste from canteen and campus is dumped Municipal Corporation garbage box and the in Municipal Corporation of Amravati disposes it. Degradable waste like plant leaves and garden material is dumped into a pit which can be further used as manure for garden itself. Electronic goods are put to optimum use. The electronic components such as old invalid

projects of final year students as well as damaged or old electronic circuits/kits/models are reused for making the new electronic devices/projects by the students.

- ERP System: Enterprise Resource Planning (ERP) software is a step towards e-governance. The ERP consist of all student's data related to their personal and curriculum profile and the software can generate various types of reports related to student.
- One sided blank paper is used to save papers. E-notes/question bank are provided to students by staff through a Moodle i.e., learning management system (LMS) to minimize the usage of papers.

2. **Improvement in Placement Activities:**

The college Industry Institute Interaction & Corporate Relation Cell(III&CR) prepared an Action Plan to improve the placement activities, training and analysis of each department. The Action Plan includes:

- Conducting sessions on Aptitude, Group Discussion & Interview for Final Year students.
- The Placement Coordinators of all departments identify and submit the department wise training & analysis requirements.
- The Dean (III&CR) get assistance from the Department Placement coordinators and student representatives for preparing the data bank.
- Preparation of list of possible Placement drives that can be brought to the campus with the collective efforts of III&CR team and personal contacts.
- Industry Institute Interaction is done through this training & placement cell which provides Industrial exposure to the students.
- In vacation period, implant training & industrial tour are organised by the cell through which the students get practical industrial experience.
- To fulfil the technical human resource demand of industry this cell continuously interacts with the industry and organises campus placement activities for the eligible students, through which students get final placement in the industry.
- Continuous interaction of the cell with the Alumina also helps in achieving the above goals & motivating students to contribute in this direction.

- Extracurricular activities like Mock Practices & Demonstrations on Group Discussion, Interview Techniques, Communication Skill, Personality Development & Aptitude Development is carried out throughout the year for third and final year students with the help of respective students' committees of the different Departments.
- To improve the efficiency of faculties Special Training Programs for faculties is organized in summer and winter semester on key areas like TIME Management, STRESS Management, Teaching Techniques, Communication Skill and Total Quality Management (T.Q.M.) by well-known agencies.
- A Special Training Program for third and final year Students is regularly organised in summer vacation under the department. Students are trained on Aptitude Test, G.D., P.I. and Communication Skill. Mock aptitude test sessions are also conducted for students' practice.

Inspite of the unprecedented corona pandemic round the corner our students have achieved appreciation by getting pivoted positions in the corporate world. We have students with the best combination of talent, skills and attitude that adds up to great performance.**250+ students got placed in different MNC's, 77+ company visited for campus drive, 150+ students got opportunity of internship in industry.**

3. **Implementation of Solar Energy Plant** : Our institute has large number of flat roofs which have been utilized for the installation of solar power plant. Solar panels were placed in this vacant terrace area that has turned our roof top into a value-adding asset which is producing clean green energy, absorbing heat to lower indoor room temperature & positively impacting our environment. This on-grid solar power plant helped us to cut about 3, 00,000/- rupees in electricity costs in every month. The real-time solar generation is monitored by our institute using an in-built remote monitoring device. The institute has installed 190-kilowatt on-grid solar power system (Tejomay) that generates about 2,77,400 units of electricity every year. Installation has been done in three stages. In first stage, in 2016, we installed 60 kW, in 2017 we added 100 kW and in third stage we added 30 kW solar panels, making our total generation capacity of 190 kW. This 190 kW Solar Power Plant generates 760 kWh (Units) per day. Up to August 2020 a total of 8,71,844 kWh (units) of electric energy is generated which in

turn avoided the emission of around 700 Tons of CO2 in the air which is equal to planting 50,000 of trees. Thus, we have helped in keeping the mother planet greener. In addition to this institute is using LED lights. They are the latest and most fascinating technological advancement in the lighting industry. LEDs are small, solid light bulbs that are powerful, energy-efficient, and long-lasting. LED bulbs are 80% energy efficient compared to fluorescent bulbs. LEDs also make less wastage of energy than other conventional bulbs. LEDs however convert 95% of energy into light without only 5% being wasted as heat. Hence, using of LED bulbs saves energy and it is eco-friendly. From last 5 years, LED bulbs are used in college and saving energy, thereby sensitizing, or making aware the students and teacher community about energy saving. It reduced the electricity bill of the College and saving the energy.