Institutional Strategic Plan and its Effective Implementation and Monitoring

The Sharad Institute of Technology College of Engineering and Technology Yadrav has developed the Strategy document through a stakeholder consultation process.

In accordance with our vision and mission, the proposed strategy document consisting of Action Points has been prepared.

• The document was deliberated in faculty meetings, and feedback from stakeholders was solicited. The document was appropriately revised to include significant feedback received. The amended document will be sent to the statutory body and their recommendations will be integrated into the final version.

• The Institute Strategy document outlines a five-year plan, including action items and key performance indicators. i.e. **(2021-22, 2022-23, 2023-24, 2024-25, 2025-2026)**

• The Strategy document approach has established an inclusive framework for engaging stakeholders in the Institute's visioning and planning activities.

• Strategic goals were established in consideration of the vision and mission statements, quality policy, core values, SWOC (Strengths, Weaknesses, Opportunities, and Challenges) analysis, and prevailing environmental, social, technological, and competitive considerations.

Strategic goals:

Goal 1: Deliver a superior technical education and attain recognition as one of the leading engineering colleges in the state.

Strategic Plan 1.1: Improving the quality of the teaching-learning process

Action Points:

- Academic planning
- Development of teaching aids
- Providing mentoring and personal support
- Create fair feedback system
- Adopting an Outcome Based Learning system.
- Curriculum revision based on the requirements.
- Motivating faculty members to participate in and host more FDPs, conferences, and workshops.
- Employing ICT-based methodologies in the teaching and learning process.
- Arrange lectures by industry experts in certain courses.
- Emphasis is placed on the development of a mentoring system for students who are slow learners.
- Inspiring faculty to enroll in NPTEL-Swayam programs to enhance their teaching and learning capabilities.

Strategic Plan 1.2: Enhancement of student skills and industry preparedness

- Fostering lifelong learning competencies through the integration of self-directed educational opportunities such as seminars, industrial case studies, and NPTEL training programs.
- Implementing project based learning.
- Organizing value-added programs for skill enhancement
- Industrial Internship.
- Formulating Memoranda of Understanding with industry.
- Completion of certification courses through innovation centers.

Strategic plan 1.3: Developing Centre of excellence in core programs

- Upgrading current labs and setting up cutting-edge labs across departments as centers of excellence for core programs.
- Making the lab accessible after working hours.

Strategic Plan 1.4: Engagement of faculty and students in research and development initiatives.

Action items:

- For financial support, faculty members are being encouraged to submit research proposals to different funding organizations.
- Faculty members are motivated to submit and publish papers at national and international conferences through appropriate incentives.
- Faculty members are motivated to submit and publish research papers / book chapters / books / patents through appropriate incentives.
- Motivating students to submit manuscripts to peer-reviewed journals.
- Promoting the participation of students in project competitions and HACKTHONS at the university, state, and national levels.

Strategic Plan 1.5: Developing leadership and participative management:

- Reporting structure.
- Decentralize the academic, administration and student related authorities.
- Prescribe duties, responsibilities and accountability.
- Establishment of functional committees.

Principal Metrics of Achievement for Goal 1:

- Consistent regularity in undergraduate program admissions
- LCDs and smart boards are installed and utilized in certain selected classrooms and laboratories.
- Over the past few years, several faculty members have successfully completed their Ph.D., while many others are currently pursuing their doctoral studies.
- Student project groups have secured prizes in the state-level Dipex competition.
- Student project groups have also achieved recognition at the national-level Smart India Hackathon.
- Numerous research articles have been published in reputed Web of Science and Scopus-indexed journals.
- A significant number of patents have been published by faculty members and students.
- An international conference along with several FDPs, symposiums, and workshops has been successfully conducted.
- Faculty members have successfully completed NPTEL courses with excellence.
- A clearly delineated decentralized governance system has been established.

Goal 2: Enhance Connectivity with Industry and Society

Strategic Plan 2.1: Enhance interaction with industry

Action Points:

- Establishing additional MoU's with different industries for student internships and placements.
- Implement curriculum that is tailored to the needs of the industry.
- Prepare the curriculum by involving academicians from reputed institutions and experts from industries.
- Implementation of an internship-exclusive semester
- A distinct Training and Placement Cell that provides career guidance and interacts with the industry to improve the placement of students
- The establishment of an Entrepreneur Development Cell will serve as the central point for the organization's interactions with society and industry, ensuring that the students' requirements are met.

Strategic Plan 2.2: Determination of social requirements

- Choosing project topics in accordance with societal and industrial demands such as rainwater harvesting, smart irrigation systems, automotive technology, and drone modeling.

Principal Metrics of Achievement for Goal 2:

- Many MoUs with various industries are in the pipeline, both at the institution and departmental level.
- The curriculum includes electives that have been recommended by the industry, including industrial safety, entrepreneurship development, and operation research.
- Faculty members promote projects that address the requirements and problems of society and industry through testing, consultancy, design, and other activities.
- The curriculum incorporates an internship training program.
- The training placement cell organizes career guidance programs and includes industry resource people in pre-placement training to help students get better jobs.

Goal 3: Improve interaction with alumni

Strategic Plan 3.1: Connecting with alumni

Action points:

- To establish a distinct Alumni Interaction Cell.
- To conduct frequent alumni meetings at the institute and departmental levels
- Collecting feedback from alumni regarding curriculum revisions
- Promoting the involvement of alumni in the Institute's overall development

Principal Metrics of Achievement for Goal 3:

- Alumni Coordinators are designated independently at both the College and Department levels.
- Alumni meetings are conducted on a regular basis.
- The Institute collects feedback forms from alumni regarding its curriculum and performance.

Goal 4: Develop a clean, green, and sustainable campus and strengthen the infrastructure

Strategic Plan 4.1: Development of Infrastructure

Action points:

- Transformation of the campus.
- Enhancement of indoor sports facilities
- Development of a parking facility.
- Development of interconnecting road network inside the campus.
- Motivating faculty members, staff and students to keep the campus green
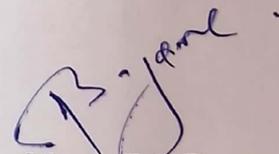- Every day, waste is collected from immovable dust bins.

Strategic Plan 4.2:Sustainable Development

- Plantation and development of garden.
- Creation and cultivation of a botanical garden.
- Rain water harvesting for water conservation.
- Development of magic pit for waste water of canteen.
- Development of biogas plant is under consideration.
- In the near future, entire academic buildings will be powered by renewable energy sources like solar.

Principal Metrics of Achievement for Goal 4:

- Water conservation is achieved through the rainwater harvesting by recharging the borwells.
- Magic pit is build and used for the waste water treatment of canteen.
- The campus greenery is maintained through planting and gardening efforts.
- All buildings in the campus are now connected with road network.

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