

## **6.2.1**

The institutional Strategic/ perspective plan is effectively deployed

**SANJEEVAN ENGINEERING & TECHNOLOGY INSTITUTE**

(Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere)



Somwar Peth-Injole, Tal. Panhala Dist. Kolhapur – 416 201

**“Vision 2027” perspective plan**

By 2027, **Sanjeevan Engineering & Technology Institute**, Panhala, Kolhapur looks forward to be the center of excellence and a distinguished Hub of Higher Education, placements and Social outreach.

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**Vision, Mission, and Goals..**

**Vision**

To be the institution of excellence by imparting quality education & transforming students into competent professionals of societal relevance.

**Mission**

- To practice innovative & outcome based teaching learning process.
- To imbibe conducive research ambience towards developing environment friendly engineering solutions.

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- To strengthen the interactions with industries for research, internship, employment opportunities & promoting entrepreneurial skills.
- To accelerate equitable & harmonious development of stakeholders.

### **Goals**

- To make Selfless efforts for the spread of education in the field of Engineering and Technology among classes and communities which are socially and educationally underprivileged.
- To make special provisions for promoting Engineering education in the rural area and assist them for getting jobs in their field.
- To supervise and control the conduct and discipline of the students of the institute and provide them counseling for their physical and mental well being
- To motivate young researchers/teachers/industrialists/entrepreneurs/agripreneurs to acquire knowledge and scientific curiosity
- To provide opportunities to the community to reach its highest personal and professional potentials
- To develop the personality and character of students through value education and ICT based training.

### **Holy Wood Academy's Sanjeevan Engineering & Technology Institute: An Overview**

Hon'ble Shri. P. R. BHOSALE, Founder–Chairman of Holy-wood Academy, Kolhapur, was born in a family having agriculture background at Narande Village in Kolhapur District.

In 1992, he has established the Holy-wood Academy to impart best quality education at Primary, Secondary, Higher-Secondary, Graduation and Post-graduation in various disciplines. With a batch of only 7 students, he laid the foundation stone of SANJEEVAN KNOWLEDGE CITY by starting Sanjeevan Public School in 1994.

The **Sanjeevan Engineering & Technology Institute** was established in 2009. At the time of establishment, the institute was then affiliated to Shivaji University, Kolhapur.

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Sanjeevan Engineering and Technology Institute, is located in Western Maharashtra near foot-hills of FORT PANHALA (near Teen-Darvaja), a historical place and famous Hill Station. Panhala is 21 kms away from Kolhapur City and is one of the most charming and scenic hill stations in Maharashtra. It's refreshing and scintillating natural beauty attract tourists from every nook and corner of the world. Panhala is gifted with unmatched beauty in the world. Its pristine hills, beautiful valleys, eye-catching monuments of bygone era are still untouched, pure and safe. Nature is always at its best, which make tourists visit this place as the mercury level rises up. The campus, raised in about 100 acres, against the backdrop of captivating cultural/historical heritage. The main administrative building along with various departments and other blocks and hostels for students are skillfully developed. The Institute has scenic beauty of nature enriched by, various trees, creepers, and flowering plants.

The Institute is approved by All India Council for Technical Education, New Delhi, recognized by Directorate of Technical Education, Govt. of Maharashtra and affiliated to Dr. Babasaheb Ambedkar Technological University (DBATU), Lonere. Today, there are more than 3000 students studying from all over the state from KG to PG.

### **Academic Excellence**

The Institute started functioning with 4 under graduate departments and about \_\_\_ students on the campus. Today, the number of under graduate and post graduate departments has gone up to 06 with 5000 students on the campus. The student's strength of the institute today is above 3000. The Institute imparts education in 5 major disciplines, viz. Computer Science & Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Electronics & Computer Engineering under the faculty of Engineering and Technology. During the initial years after the establishment of the institute, efforts of the Institute were concentrated on expansion of higher education in and nearby Kolhapur. The Institute, which was founded primarily to cater to the local aspirations, has now geared up to transcend the initial local image and has emerged as one of the premier institutes of higher education in the region of Maharashtra. Initially, this Institute was known as a rural Institute, as it was instituted to cater to needs of the locals. The Institute has consolidated its base during this phase by 'taking education to the people'. The recent phase of the Institute has been 'a pursuit of academic excellence'. We now look ahead to ensure this

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pursuit of excellence, transformed into a centre of higher learning across the state during next couple of decades, in order to accomplish our vision and to create a fine band of capable researchers and scholars bestowed with social commitment. The Institute has also maintained its high standards of general administration, efficient teaching-learning system, and cordial relations with Industries and funding agencies with its continued efforts.

### **Teaching, Learning and Curricular Aspects**

#### **Goal**

Promoting excellence in teaching with focused curriculum and developmental approach.

#### **Current Scenario**

Presently, Institute imparts education in 5 disciplines, viz. Computer Science & Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Electronics & Computer Engineering under the faculty of Engineering and Technology. In the last couple of years, new Departments were established for starting new courses in the front-line areas of knowledge, in addition to diversification and enrichment of the academic content. The courses are made available as per the requirements of the Industry. The Institute has also adopted the mechanism of bridge courses for establishing the link between academic courses and the professional expertise. Multiple approaches have been initiated to achieve the high standards of teaching. The faculties also taking apt steps to advance promote and propel the overall development of the students through innovative teaching programs. The faculties have taken care of curriculum aspects by the continuous enhancement of the pedagogical tools and methods. The Institute is also keen on harnessing the Information and Communication Technology (ICT) based instructive strategies by equipping the faculty members with laptops/desktops and instituting smart classroom facilities in all Departments.

#### **Action Plan...**

Following core strategies will be adopted to achieve the Vision-2027 goal concerning the teaching, learning and curricular aspects:-

- Facilitate career development in numerous areas of Engineering and Technology.
- Develop learning through high-quality interactive teaching resources.

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- Increase the success ratio of degree holders.
- Emerge as knowledge hub at national level by offering world class learning resources and programmes.
- Initiate a need-based Add on courses to infuse best skills among students.
- Ensure the participation of students, teachers and non-teaching staff in sharing the task of social responsibility.
- Establish relations by way of MoUs with institutes of higher learning & Industries.
- Offer good number of online programs.
- Encourage more interdisciplinary, interfaculty teaching programs.
- Generate effective system that will support and promote teaching excellence.
- Develop successful recruitment and retention strategies that will address to our entire student population.
- Ensure holistic personality development of the students through counseling and guidance, in-house and outside training programs.
- Conduct effective counseling of the students for their well-being in professional, community, social, and personal areas.
- Attract expert and multifaceted faculty for ensuring teaching excellence.
- Create faculty positions in the Departments to maintain ideal teacher / student ratio.
- Create scholarship funds to cover most of the students.
- Coordinate the activities of government and NGOs to support the social, economic and cultural cause that leads to development of the state and nation.
- Promote industrial partnerships for imparting hands on training and experiential training.
- Increase the number of students and faculties getting national and international awards.
- Encourage need based research with due emphasis on doctoral research.
- Develop the students' mindset towards eradication of superstitions and social evils.

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### **Research, Consultancy and Extension**

#### **Goal**

To create an outstanding band of passionate researchers by enduring a culture of innovation, creative and critical thinking through scholarly pursuits to attain the solution of problems in all domains of human endeavor through alliance with various funding agencies, government and non-government organizations.

#### **Current Scenario...**

In the last couple of years several steps have been taken to improve the standards of research so as to match the national and international benchmarks. New areas of research are currently being explored in the rapidly emerging fields like Computer Science, AI, EV, Modeling, Embedded Systems, and VLSI Design, Renewable and non-renewable sources of energy, Materials Science etc. The faculties have also geared up in conduct of research to meet the demands of the changing times. Faculty members were encouraged to take up research projects under 'Research Project for Faculty Scheme'.

#### **Action Plan...**

Following core strategies will be adopted to achieve the VISION 2027 goal concerning the research, consultancy & extension:

- Recruiting the faculty with high research credentials.
- Attracting students with research aptitude through proper scheme.
- Promoting inter-disciplinary/multi-disciplinary research as well as industry oriented research by developing research skills among students and faculty on a broad spectrum upcoming area.
- Promoting applied research strongly linked to practical use for addressing the societal needs.
- Setting up research centres.
- Increasing participation of undergraduates and postgraduates in research.
- Encouraging faculties to participate in national research activities to inculcate research culture at undergraduate level.

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- Inducting new faculty members to cultivate the research culture.
- Diversifying and pursuing applied research based on the core strengths in the areas of national importance such as: Nano Materials & Manufacturing, Embedded System and VLSI Design, Energy and water, Advanced Engineering and Technology, Renewable energy for sustainable development.
- Encouraging the faculty members to file patents.
- Emphasizing collaborative research and group research among the faculty members.
- Promoting the culture of research ethics.
- More national and international patents.
- More inflow of research grants.
- Scholarly Resources and Library Upgradation

### **Scholarly Resources and Library Upgradation**

#### **Goal:**

Strengthening and modernizing the Library services for effective dissemination of scholarly resources.

#### **Current Scenario**

Institute has a Central library. It caters to the academic, research and scholarly needs of students and faculties. The library has over 20,000 printed documents and it subscribes to over 50 national and international printed journals. The Institute has Digital Library and access to over 5000 e-journals. The whole campus is equipped with internet connectivity. Under this necessary infrastructure and facilities are being created to upload the distinguished/potential project reports of undergraduate students.

#### **Action plan ...**

Thus the Library aims at rediscovering the academic space and services that will be engaging, adaptive, productive, responsive, ubiquitous and sustainable.

- Improving access through mobile and wireless technologies, for interacting, communicating and disseminating the information to the stakeholders.

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- Transforming the library catalogues and other search tools, reference services and information resources into ICT Based sources and making them user friendly and mobile-friendly.
- Delivering the Library services in various multimedia forms such as visual, audio, location and action based.
- Digitizing the personalized portfolios of Library staff and the stakeholders on the campus to enable easier access.
- Adopting flexible work patterns for the library staff and shifting the focus from traditional and time-consuming tasks to delivering more stakeholder-focused services.
- 24 by 7 library facility for students.

## **Infrastructure**

### **Goal:**

Upgrade and establish infrastructure to support and enhance curricular and co-curricular aspects of the students by creating new physical spaces, renovating existing facilities and instructional amenities.

Infrastructure plays a vital role in the smooth administration of teaching carried out in the institutes. It also enhances the outlook of the institute to a substantial level. This theme puts forth the future action plan pertaining to infrastructure.

### **Current Scenario...**

Facilities available.....

Smart Classroom in every Department

Ladies and Gents hostels equipped with internet connectivity. R

Wi-Fi Enabled Campus.

CCTV enabled campus surveillance system

Institutional Repository of teaching material on the website

Filtered drinking water facility.

### **Action plan ...**

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Construction of new Classrooms

Renovation and extension of the class rooms.

Laying/renovating sewerage lines

Construction of Internal Roads, Fencing/Boundary walls

Plantation and landscaping (Green Campus initiatives)

solar energy generation and rain water harvesting

Providing necessary facilities for differently-abled persons

### **Institutional Governance**

#### **Goal:**

To instill a governance structure to oversee academic and research progress by following the practices of transparency, timely communication and all-encompassing participation.

#### **Current Scenario...**

Effective governance is decisively important for fulfilling the aspirations of the stakeholders and is very much essential for overall success of the Organization. This section highlights the proposed reforms in governance to complement the academic and research vision foreseen by “Vision 2027”. Presently, the Institute administration is using e-governance. The administrative information being published on the web site of the institute, presently includes general notices, academic calendar, notification for admission etc. The bio-metrics system for monitoring the staff attendance has also been installed by the Institute.

#### **Action Plan...**

Launching the recruitment tab as “Careers” on web portal of the institute for speedy processing of the faculty applications. Following points are to be incorporated for guiding and monitoring of institutional performance

- Proactive Management with clear vision and mission to ensure quality education
- Development and good Governance Policy
- Institutional Leadership Development
- Transparent system of governing
- Employee recognition / Appraisal Cell

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- Establish e – office or paperless office for day to day administration
- Create an Office of the Administrative Dean (D -ADMN)
- Establishing Accreditation Facilitating Cell
- Creating contemporary Website of the Institution
- Inviting outside agencies for Outsourcing key facilities

**Academic Initiatives**

- Establish an Office of the Dean of Academic Affairs (D -AA)
- Adopt OBE system through Quality syllabi with freedom to fine tune the contents
- Develop / upgrade laboratory infrastructure and equipment facilities
- Establishing an Industry ready learning centre
- Pool of courses for choice based selection
- Flexibility to choose (including self-learning courses) and offer courses
- Robust & Transparent internal evaluation process
- Faculty / Staff Training
- Faculty Appraisal by the students
- Self Evaluation of Faculty
- Semester End Academic Feed back
- Offer new, interdisciplinary and applied programmes
- Stabilize basic sciences and humanities programmes
- OBE based tool to set the question papers (CIE & SEE)
- Creating a full-fledged Soft Skill Development Centre
- Initiate linkages with institutes imparting foreign languages efficiently

**Financial Freedom Initiatives**

- Have a Finance Advisor (FA)
- Create a post of CFO
- Establish an Office of CFO
- Develop a robust on – line, easily accessible & useable finance portal
- Make all the transactions on-line and transparent through e-finance / eaccounts portal
- Develop and install e-salary portal for employees with smart card option

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- Develop Financial Sustainability plan

**Examination & Evaluation Processes Initiatives**

- Establish an Office of the Dean (D – E&E)
- Continuous Internal Evaluation
- Semester End Examination
- Transparent & unbiased Evaluation / Digitized Evaluation
- State - of - the - art facilities for conducting examinations, valuation
- Student Grievances Redressal Cell
- Disciplinary Committee
- Internal Academic Evaluation Committee

**Student Progression, Support and Inclusion**

**Goal:**

To deliver an excellent, most comprehensive and professional service to our students for their overall development.

**Current Scenario...**

- Few students opt to go for further studies
- Awareness among the students as regard to the career opportunities with further studies.

**Action Plan...**

- Sessions from HEIs involved in higher studies to be conducted
- Collaborating with foreign universities to facilitate the access for further studies
- Awareness with career guidance to be conducted.
- Interaction with alumni who have undertaken further study to be arranged.

**Social Outreach**

**Goal:**

- Technology based projects for societal issues
- Educating the public
- Social Service (Blood donation, eye camp, health camp, environmental camp etc.)

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**Current Scenario...**

- A few projects have been done.
- SETI conducts programs on various issues & needs
- About 5 programs or events conducted every year through NSS, Women development club.
- NSS conducts blood donation camps
- Tree plantation drives
- Awareness on plastic-free society

**Action Plan...**

- Identification of societal issues to be solved using technology.
- Effective utilization of resources of departments
- More programs useful for the community like healthcare, agriculture, technology issues, etc. to be conducted.
- Awareness creation among students, staff, faculty.
- Green Clean campus
- Short-term Courses/Workshops/ Skill based programs for Women, senior citizens, unemployed youth, etc.
- The events may include: Rallies, fund raising programmes,
- To associate with NGOs and self Help Groups.

**Placement**

- Placement and Entrepreneurship: The placement activities will be strengthened and more number of entrepreneurship awareness camps will also be held.
- Skill/Personality Development Program: The University shall intensify the organization of such programs where the students will be groomed to make them mentally fit and technically sound and are employable.