Sant Dnyaneshwar Shikshan Sanstha's

Annasaheb Dange College of Engineering and Technology, Ashta

An Autonomous Institute

Perspective Plan for 2018-2023

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Perspective Plan for 2018-2023

The institute Strategic Plan for 2018-2023 is designed to systematically evolve the academic, research and development, administration and infrastructure development plans for the institute.

Vision of the Institute

- To be a Leader in producing professionally competent engineers ▪

Mission of the Institute

We at ADCET Ashta are committed to achieve our vision by,

- Imparting effective outcome based education
- Preparing students through skill oriented courses to excel in their profession with ethical values
- Promoting research to benefit the society
- Strengthening relationship with all the stakeholders

CORE Values:

- Excellence
- Innovation
- Collaboration
- Respect
- Integrity
- Responsibility

Long range Goals:

- Amongst top 200 in NIRF by 2023 and one of the best in the state
- Strive for centre of excellence in all disciplines of the institute
- Create conducive environment for top class education, research, development and extension
- Develop collaborative arrangements with premier institutions in India and abroad
- Intervene for sustainable development of the region and improvement in quality of life

- To strive for quality teaching, research and extension services

- To achieve overall development of students and society

- To incorporate flexibility in curriculum design

- To adopt dynamic students evaluation system

- To introduce regional need based courses

- To make the system responsive for maintaining the time schedule

- To develop strong relations with industries, institutes and society

- To nurture industrial development based on regional resources

- To create, preserve and disseminate technical knowledge

- To promote competitive merit and excellence as the sole guiding criterion in overall development of students

In addition to the broad range of activities that the institute carries out in pursuit of its mission, following activities with action point have been identified to be given special emphasis in the strategic plan.

1. Promotion of mutually beneficial engagement with industry and society

- Proactive approach for industry interactions - Adjunct faculty from industry and academia

- Encouragement to faculty for core industrial exposure

- Focus approach on technology patenting and commercialization

- Establishment of Industry Institute Interaction Cell (IIIC)

- Eco system for start-up and entrepreneurship through Incubation Centre

- Addressing the need base societal and research problems through curriculum development

2. Expand educational opportunities and avenues

- Forecast industry requirements and societal educational aspirations

- Initiate the institute open electives in the areas of Economics, Accountancy, and Human Values etc.

- Initiate new specialized programmes based on the concept of Industry 4.0

- Arrange skill development programs

- Initiate Honours and Minors degree concept as per the AICTE guidelines.

- Effective Implementation of choice based credit system

- Effective implementation of credit transfer scheme

3. Create quick response internal support systems

- Simplify systems and processes

- Free up faculty/researcher/students time for education and research by time saver techniques for non-academic processes

- Service response, online complaint systems

- Parallel track – incentives and career growth, retraining existing staff

- Service orientation – to enable education and research

- Appropriate delegation at all levels to promote decision making and leadership

- Incubation Centre with 10000 Sq. Ft. area for students start-ups

- Project based learning in 40% courses by the year 2023

- Engage the students fruitfully during vacations in activities for employability enhancement such as Project internships, Skill based courses, Training for soft and communication skills, improved Aptitude, Computer Programming, special tools specific to the disciplines

4. Enhance on campus life and experience

- Priority for expansion of accommodation facilities for students

- Annual student satisfaction survey

- Enhance students learning facilities with ultramodern, spacious, well ventilated classrooms, laboratories, sports and recreation

- Establish Content Creation Lab (CCL)

- Involve students, staff and faculty in campus planning including green and clean campus initiatives

5. Explore new avenues of fund raising

- Enhanced engagement with stake holders

- Increase research projects from industry, Government research organizations, centres of excellence

- Increase in the Consultancy activities

- Attract benefits from Corporate Social responsibility (CSR)

6. Linkages with international universities for horizon expanse

- Develop appropriate arrangements for international relations – to coordinate the activities with international universities

- Enhance link with partner international universities

- Facilitate collaborative research with international universities

- Attract international faculty on contract appointments

- Start student exchange program with international universities

- Organize joint activities with international universities like conferences, workshops, credit courses, expert lectures etc.

7. Advance Frontiers of knowledge

- Encourage conduct of research conferences at the institute

- Encourage formation multidisciplinary research teams and centres.

- Proactive and flexible mechanism to attract quality faculty.

- Establish proactive board of studies and academic council

- Additional courses in emerging areas such as Food Technology, Agriculture Engineering, Artificial Intelligence, Data Science, Data and business analytics, Robotics, Big data, Machine learning, Deep learning etc. for all students

8. Create future leaders and innovators

- Confidence building measures to prepare students for facing new challenges

- Enhancing the RISK taking abilities amongst students

- Enhance support for student participation in National/International technical competitions

- Create a cell for guidance on competitive examinations like UPSC/ MPSC etc.

- Supervised internship for students in industry for longer duration

- Students involvement in institute governance

- Organize the activities for the students by the students

- Enhance the involvement of student in organizing the activities like conferences, alumni meet etc.

- Enhanced opportunities for students to participate in industrial and societal projects

9. Ensure gender equality

- Provide modern, secured and comfortable accommodation for girl students.

- Focused outreach to present girl students, alumni, faculty members as a role model to school students and convey the exciting career opportunities provided by an engineering education

- Support for secured transport facilities (Buses) for girl students, women employees to the institute

- Support through mentoring groups

10. Bring alumni engagement on board

- Enable, facilitate seamless coordination between alumni association and Institute

- Initiative for supporting alumni need for continued learning and career improvement

- Lifelong learning module targeted for alumni

- Multiple interaction modes – interaction between alumni and students – mentoring, interaction between alumni and faculty

- Alumni inputs for curriculum development

- Alumni support for students placement and internship

- Alumni involvement in enhancing the invitation ecosystem at the institute

- Enhance institute responsiveness to alumni request

- Creation of an alumni centre at the institute to supports alumni visits, activities engagement

Strategic Plan 2018-2023: Effective Implementation

The Institute has made humble efforts in fulfilling the vision and achieving the goals through effective and planned implementation of the missions undertaken. During this challenging journey of 19 years of its existence, it has crossed many milestones of growth and development.

Board of Governors of the institute is the highest policy making and planning body. The roadmap is prepared by them and the finer details are planned, designed and implemented by various agencies/ committees/ groups internally and/ or externally. In continuation with, the adopted vision, mission and goals, our main emphasis are in the following aspects of student-centric institutional growth and development:

- Academic reforms, restructuring and continuous improvement in academics
- Infrastructure development: Building, Laboratories, Library, Internet facilities
- Extension activities/ Consultancy/ IRG/Entrepreneurial/incubation and start-up activities
- Networking with premier institutions/ organizations/ industries
- Interaction with Alumni and domain experts
- All round personality development and growth of students
- Capacity building of faculty trough higher education, trainings etc.
- Support systems and overall ambiance

To meet the ever-changing global and national challenges of Engineering industry, Technical education institutes are at their toes. We are also no exception to it and continuously working to keep pace with new requirements.

The existing curricula are revised continuously considering inputs from all stakeholders and AICTE guidelines. Improvements in modular, flexible and interdisciplinary approach are continuously done during this period by introducing more departmental electives, Institute level electives, performing projects and undergoing training in industry. Because of the above features, a slow learner can also move in his/her own pace to complete the degree. The institute has introduced open electives in the diverse fields such as Human values, Psychology, Economics, Accountancy, Industrial Relations and Management etc. after conferment of Autonomous status. Institute is

implementing Outcome Based Education in its spirit and understand that OBE is key to success. Implementation already has begun through Examination reforms, Project based learning, Bloom's Taxonomy.

With own funds, in the recent years, the management has created following infrastructure facilities to benefit the student fraternity:

- New Boys hostel

- New Girls hostel

- New Library Building

- Renovation of Old Main Building

- New buildings for Civil Engineering, Computer Science and Engineering and Basic Science Departments.

- New Building for Aeronautical Engineering, Automobile engineering and Mechanical Engineering.

- New building for Sports Complex.

- Up gradation of existing laboratories in almost all departments.

- Up gradation of computing facilities in the institute.

- Campus beautification and landscaping

Faculty have contributed in a big way for laboratory development through various funding agencies like AICTE, DST, MODROBS etc.

Institute has continued the up gradation of the institutional Library which is situated in a separate three storied block of 1232 sq. m. surrounded by lush green area. Currently, it has an ample stock of books and bound volumes of National and International journals along with E-journals- IEEE ASSP, Springer, Science Direct, etc, which facilitates research in our institute. The digital library facility is also provided in the library which accommodated 48 dedicated computers. It is a most lively place on the campus providing a comfortable and friendly environment that enables learning and advancement of knowledge, and promotes innovation. Besides this, it has Book Bank facility, reading room, e-library, recorded lectures of faculty of the institute etc. The Institute subscribes multiple copies of national, regional, and local news-papers

and magazines. Library is kept open on all days including Saturday and Sunday excluding public holidays.

The Institute can provide accommodation in hostel for around 580 girls and 600 boys in its campus. Also, the accommodation facility is provided by the Institute to few faculty and staff. The institute supports secured transport facilities for all students and employees from Institute to Sangli-Miraj and Ashta.

Despite being placed in a rural area and away from industrial clusters, few departments do reasonably good consultancy work.

To strengthen the industry academia relationship the institute has taken the imitative for signing MoUs with the departmental core industries.

Institute has its registered alumni association called ADCET Alumni Association. Institute encourages in organizing the alumni meets in the different cities in India to enhance the networking among the ambassadors of the institute and to disseminate happenings in the campus and solicit the support of alumni. This networking was used to generate resources which paved the way for batch-based contributions.

The Institute aims to create a talent pool that would provide future leaders and innovators at undergraduate and postgraduate levels.

Students organize various extracurricular activities through their various clubs and the departmental groups. Apart from these activities students play a very vital role in organizing the mega events like Discovery, Innovation, Empower, Spark, Profest, Lakshya, Inspire etc. Institute provides excellent infrastructural facilities for various indoor and outdoor sports like cricket, tennis, basketball court, volleyball court, table tennis board, kabaddi, kho-kho and gymnasium.

Institute organizes a Orientation Program for newly admitted students, farewell function; parents' meet for all students. In this programme the certificates and awards are given to the outgoing students. Outsourcing of labour facility is adopted by the institute to maintain and upgrade existing infrastructure and surrounding to keep campus neat, clean and green.

The stakeholders of the Institute are becoming a more diverse group. In addition to, the stakeholders like parents, students, faculty, staff, alumni, and industries the participation of Government through funding agencies, international universities, and other international/national educational organizations are taking place. The intellectual property rights issue is another factor that may compel the Institute to make use of its knowledge resources in specific ways.

Strategic Plan 2018-2023: Monitoring

Monitoring of the activities in the Institute is carried out regularly by conducting various meetings, discussions, feedback sessions and audits. These include

- Departmental meetings with students, staff and faculty on continuous basis
- Meeting with departmental students association and students clubs on continuous basis
- Meetings with hostel committees on continuous basis
- Meeting with site section, Hostel section, Electrical Maintenance cell, account section, academic section, examination section, establishment section, sports section, library etc. as per the requirement
- Parent meetings once in a year
- Alumni meets once in a year.
- Research Symposium twice in a year
- Feedback from students, alumni and Industry online, during visits of alumni-industry persons, alumni meet.
- Review meetings for funded projects and schemes
- Regular weekly meetings HoDs and Deans.
- Meetings of industrial advisory panel as per the requirement
- Meetings of board of studies as per the requirements
- Academic council meetings twice in a year.
- BOG meetings two times a year.

Based on the outcomes of the meetings, potential issues were identified and corrective measures have been taken by the Institute in regular manner to march

towards its goals and missions. The corrective measures are taken by considering following points:

- Monitor and evaluate the performance of the institute activities and identify variance, if any, from the plan and suggest remedial measures, as required
- Provide information to Deans, HODs, faculty and staff members on the extent to which the activity is meeting the desired objectives
- Collect regular feedback from faculty, students and staff on the status of the progress of the institute and create a clearer basis for decision-making
- Strengthening the performance, information generation and dissemination for improving Institutional level management and education practices
- Advice towards quality improvement and auditing the institutional performance in achieving its goals
- Faculty and staff development

Strategic plan process

1. Identification of current status of the institute through surveys/questionnaire

2. Long Term Goal – Amongst top 200 in NIRF

3. Use of student centric methods of delivery of courses.