



Dr. D. Y. PATIL
EDUCATIONAL FEDERATION
Varale Campus

Dr. D. Y. Patil College of Engineering and Innovation
Varale, Talegaon, Pune 410507

Perspective and Strategic Plan (PSP) **(2021-2026)**



Dr. D. Y. PATIL
COLLEGE OF ENGINEERING AND
INNOVATION

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PREFACE

Like any other organization, DYPCOEI requires high level goals with long range planning and strategies to accomplish the Vision and Mission of the institute. Strategic planning is a continuous process with a specific focus on accomplishing short-term and long-term goals in the highly competitive global scenario. Perspective and Strategic Plan (PSP) analyse current global scenario and expected future scope and visualizes the direction towards which the institution should move to achieve its set goals and objectives.

The first part of PSP addresses vision, mission and working on bringing out a good quality policy along with core values. These are achieved through many deliberations with all the stake holders (Management, leadership, HODs, faculty, staff, industry, students, parents and alumni After scanning the current global scenario, institutional goals were set up and strategies to achieve them are arrived at for the institution.

Based on Institutional Vision & Mission, the goals are drawn by holding brainstorming sessions with Deans, HODs and Professors. Institutional strategic goals and strategies are formed with action plans. The process of implementation is worked out and circulated to all the departments. Financial constraints and fund availability is one of important parameters of the PSP. The IQAC evaluate the PSP and committees to monitor the effectiveness of its' implementation. As a good practice, inputs are taken from majority of the stake holders through active participation and collective inputs will be used to make constructive modifications in the PSP. The final approval of the PSP and the future changes (if any) is going to approved by the Governing Body (GB) of DYPCOEI.

INSTITUTE VISION MISSION AND QUALITY POLICY

Institute Vision

To achieve excellence in quality education through value based rapidly changing technologies and create technical Human-Resource with proficiencies of accepting new challenges

Institute Mission

M1: Continuously strive to impart value-based education to elevate satisfaction level of all stakeholders.

M2: Take dedicated efforts to create competent professionals by effective teaching learning process with passion of lifelong learning attitude.

M3: Our endeavor is to promote and support innovative research, entrepreneurship and development activities through Industry Interaction.

Institute Quality Policy:

Achieving Excellence in Technical Education through effective Teaching-Learning process and Research through an Outcome Based Education focusing on Continuous Improvement and Innovation by Benchmarking against the Global Best Practices.

PERSPECTIVE AND STRATEGIC PLAN (PSP) FOR 2021-2026

In past decade, engineering education has experienced immense changes. While the demand for excellent quality education has increased steadily, the number of technical institutes students and faculty. Therefore, in this dynamic environment, it is essential to determine the strategic objectives and quantifiable targets, measuring the performances of the predetermined indicators, and monitor & evaluate the Perspective and Strategic Plan (PSP) for DYPCOEI. It is a participative approach that enables the institute to prioritize the resources in accordance with the objectives mentioned in the PSP.

The PSP is an important tool for a DYPCOEI to manage itself effectively because it:

1. provides a framework for effectiveness and sense of direction for DYPCOEI
2. Outlines the goals and measurable targets
3. It is useful for guiding day-to-day actions
4. Helps in evaluating progress and changing approaches while moving forward
5. It is an iterative process while framing and implementing the plans

The DYPCOEI Strategic Plan for 2021-2026 is designed to systematically evolve the academic, research and development, administration and infrastructure development plans for the institute.

LONG-TERM AND SHORT-TERM GOALS

Long-term Goals:

1. To enable 70%-80% of Engineering Graduates to find immediate employment by imparting necessary skills & knowledge.
2. To motivate at least 10% - 20% of students towards higher education & research.
3. To create entrepreneurial skills in at least 5% -10% of students.
4. To get accreditation by NBA to Dept. of Computer Engineering by December 2025
5. To get institutional accreditation of NAAC December 2023.
6. To get ISO Certification for standardization of academic & admin. December 2023
7. To promote Research and Development activity & to have more than 20% PhD faculty
8. To build business incubation and start-ups for faculty and students for IRG
9. To build strong institute-industry collaborations in view of acquiring the latest industrial technological trends and skill.
10. To earn revenue through consultancy and technology transfer.

Short-term Goals:

1. To conduct special training programs that can instil in students adequate technical, communication, and leadership skills.
2. To strengthen the IQAC framework to build effective Teaching-Learning and evaluation processes.
3. To build IPR culture among students and faculty by motivating them through awareness sessions and financial support for incubation and start-ups.
4. Motivate students, faculty and staff to contribute in various technical, cultural and sports activities.
5. To do MoU with renowned organization for strong institute-industry collaborations and start activities such as student internships and live projects.
6. To train faculty, staff and students through FDP, STP, workshops and hands on training for new technologies and team building.
7. To conduct domain specific expert sessions for awareness of Artificial Intelligence, Machine Learning and Data Science.
8. To motivate the students to conduct social activities to understand their social responsibilities and their contribution
9. To develop industry-oriented Computer Laboratories to train the students for new technologies and to undertake corporate live projects
10. To upgrade teaching infrastructure and methodologies according to changing needs of the students and technological advancements
11. To generate awareness on immediate social problems and seek technical solutions to resolve the same by involving a team of students and faculty.

CORE VALUES

Honesty & Integrity

We at DYPCOEI are committed to promoting the highest standards of honesty and integrity to ensure our good image and character in the society. Further, our commitment is to work with these ideals for giving guarantee of excellent academic performance which is going to be evaluated consistently and rewarded impartially.

Equality

We at DYPCOEI are committed for creating an institution and the society where everybody is going to be appreciated and appraised based on their contributions and performance rather than gender, race, religion, physical abilities, sexual identity, or socio-economic condition. We will create awareness of equality and work to eliminate, individual and institutional racism through the work culture of the campus.

Transparency

Transparency implies at DYPCOEI openness, communication, and accountability. Increased transparency in work culture creates trust between management, faculty, staff and students, helps improve morale, lowers job-related stress, while increasing everybody's happiness and boosting their performance. And being transparent costs nothing, which gives it an exceptional ROI.

Synergy through Team work

We at DYPCOEI focused on four necessary traits in order to become synergistic and succeed: A clear team purpose, compact communication, empowerment and commitment to achieve the desired vision and mission of the institute.

Social Responsibility

We at DYPCOEI are focused on promoting the sense of social responsibilities in faculty and students by involving them in various social activities. This helps in creating awareness about latest and important social issues in individual and gives them a wider perspective of understanding the problems and possible solutions related to various social matters.

Mutual Respect

We at DYPCOEI are committed for nurturing an environment in which every member of the community nurtures the spirit of trust, teamwork, openness, and respect that is necessary to embrace and fully exploit on our professional civic.

Ethics & Commitment

We at DYPCOEI are doing institutional activities to support the vision and mission of the organization by means of work ethic which is not just limited to management and faculty but it talks about acceptable behaviour of everyone towards each another. The commitment of faculty and staff towards achieving the vision and mission of the institute and management is always kept in mind by everyone.

THE TARGETS FOR 2021-2026

1. Good Governance

a) To make the organization more professional and more focused on quality:

- Effective IQAC with internal & external members for the audit processes
- Establish Systems, checks and balances which can take immediate Remedial measures

b) To form selective strategic alliances with academic, research and industrial organizations

- Extend & Build relationships with research and industrial organizations through MOU
- To give internship to the students and take live projects
- To strengthen the Project Based Learning (PBL)

2. Curricular Aspects and Teaching-Learning

a) Effective Curriculum planning and implementation

- Enrich curriculum as per all graduate attributes by adding Value Added Programs (VAP)
- Develop Course and Session plans as per academic calendar
- Develop e-learning content and easy access to the students
- Benchmark with industrial requirements to plan for hands on training

b) Upgrading faculty & staff competence

- Conduct training of faculty for competence development
- Support Research publications and presentations
- Develop IPR culture among the students and faculty

c) Knowledge Delivery & Outcome Based Education

- Continuous Assessment and evaluation to measure the outcomes

- Establish Research Culture and PBL
- Access to online learning through NPTEL
- Mentor on academic, career & higher educational opportunities

d) Evaluation & Assessment

- Develop proper feedback system to take reviews from the stakeholders
- Continuous progress assessment
- Question bank development & prelim Examination

3. Infrastructure development and Learning resources

Green Campus

- Plantation, Rain Water harvesting & Green Cover
- Energy Audit, management
- Solid waste management (minimum plastic usage)
- Reuse of waste

Academic Infrastructure

- Aesthetic Class rooms and Seminar halls
- Smart Class rooms
- Multimedia and support equipment in classrooms
- State of the art Laboratory & equipment Online learning tools: Library

Sports & Canteen facilities

- Effective utilization of sports (indoor/outdoor) facilities
- Upgrade food court

4. Research, Innovations and Extension Services

a) To plan and develop focused Center of Excellence in the Institution with areas with potentially large societal impact Incubation Centre /Product Development.

- Encourage a greater number of "idea to product" pre-incubation activities
- Enhancing and developing the incubation centres
- Focus on Start-ups and Product development

b) To encourage students and Faculty to publish research papers in top journals and presentation at conferences

5. Faculty and Staff Empowerment Strategies

Conducive work environment

- Best work facilities and infrastructure
- Role & responsibilities clarity and empowerment

Career growth & Development

- Deputation of faculty for research presentation and higher education
- Conduction/Participation of national / international conferences
- Encourage to do research and publications in reputed journals
- Active participation in product development

6. Financial Management and Resource Mobilization

To implement effective financial system to directly support the fundamental functions of education, research, and services to the students

Budgeting

- Department wise Budget planning of all heads of accounts
- Forecast & estimation of revenue
- Forecast & estimation of expenditure Emergency plans
- Budget formulation & approval through Finance committee

Financial Governance

- Planning of expenditure management and procurement
- Implementation of Financial policies
- Audit (internal /External) checks- balances

7. Alumni engagements and interactions

To build mutually beneficial relations with alumni and to creating more opportunities / activities for alumni to spend time on campus and engage with students and faculty.

Alumni Association

- Strengthen Alumni association and engagement
- Enhance alumni association activities in the campus,

- Engage alumni and current students' active participation
- Increase students activities through alumni association

Relationships & Leveraging

- Regular interactions /invitations of alumni and current students
- Recognize successful alumni and felicitate them as role models
- Leverage for guest lecturers/internships/placement from alumni

8. Effective role of Internal Quality Assurance System

To achieve Excellence in Technical Education, Research and Consulting through an Outcome Based Curriculum focusing on Continuous Improvement and Innovation by Benchmarking against the Global Best Practices.

Establishing Quality Systems

- Setting up person independent systems flow and their bench marks
- Publishing Quality system in academics and administration as a culture
- Educating & Training of faculty, staff and students for the established systems

Audit Internal Controls

- Establish Internal and External academics and administrative audit process
- Identify unbiased and impartial audit teams
- Audit and remedial measures to remove the nonconformities

Continual improvement, Rewards & Recognitions

- Effective function of IQAC
- Recognize achievements & best practices
- Establish quality circle competitions & rewards for motivation

9. Ensure gender equality

- Convey the exciting career opportunities provided by an engineering education to the girl students, lady faculty and staff members
- Support for security within and outside the campus for girl students, women employees
- Strengthen women grievance cell for immediate actions
- Faculty and staff welfare for women employee
- Separate Women Empowerment Cell for their activities

PSP IMPLEMENTATION AND MONITORING

Development strategy plan once approved by Governing Body, will be promoted to the stakeholders of the institution for implementation. Strategy when being implemented, the progress shall be measured from time to time through the IQAC.

The PSP 2021-26 Monitoring and controlling of the IQAC activities in the Institute is carried out regularly by conducting various meetings, discussions, feedback sessions and audits. Following are the activities:

- Weekly Scheduled meeting with the Hon'ble President & Secretary with Principal
- Weekly Scheduled Principal meetings with the HoDs
- Departmental meetings of HoD with faculty
- Faculty and Staff Meetings on regular basis
- Meetings with students' council
- Meeting with departmental students' association and students' clubs
- Meetings with hostel committees
- Meetings of various cells – Anti-ragging, SC-ST, Grievance cell etc..
- Meeting with Maintenance cell, account section,
- Meetings with examination section,
- Meetings with establishment section (HR)
- Meetings with sports section, library etc. as per the requirement
- Departmental Parent meetings twice in a year
- Alumni meets once in a year
- Feedback from students, alumni and Industry during visits of alumni-industry persons
- Review meetings for Industrial live projects and schemes
- Meetings of DAB twice in a year
- Meetings of CDC and GB twice in a year
- Induction programs and the feedback of parents and students

The outcomes of the above meetings will be the basis of identification potential problems were identified and corrective measures will be taken by the Institute as a regular process by keeping in mind the vision and mission of the institute. The corrective measures will be taken by considering following points:

- Monitor and evaluating the performance of the students in academics, curricular and extra-curricular activities and identify variance (if any) from the plan. There may be suggestions and remedial actions required to be address
- Provide information to Hon'ble President, Hon'ble Secretary, Principal, Deans, HODs, faculty and staff members on the extent to which these activities are meeting the desired objectives
- Gather regular feedback from faculty, students and staff on the status of the progress of the institute and create a clearer basis for decision-making.
- Collect status remedial action reports report from all Deans and HoDs.
- Strengthening the process of 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 for Project Based Learning (PBL)
- Development of Smart Classroom for effective Teaching learning Process (TLP)
- Strengthening the Research and Development activities in each department

The Path Ahead

Strategic Plan 2021–2026 sets out specific targets in every sphere of activity of the Institute — academic programmes, research, collaboration with industry, human resource development, entrepreneurship, development of infrastructure and facilities, student life, placement, community outreach and alumni relations. These targets have been set after extensive consultation to ensure that they are both ambitious and achievable. The institution plans to have special and more focus

on promoting and increasing the research activities. Specific targets are fixed with respect to training and placement cell for the next five years.

- Increase the number of training and placement activities from FE to BE
- MOUs with industrial organizations to bridge the gap between academics and industry
- Establish Industry Centric Laboratory
- Expert sessions from Industrial persons
- Live problems for final year projects from industry
- Establishment of Entrepreneur cell for start-ups
- Student Global certification
- Internships and mini projects for PBL

The targets of this PSP 2021-26 will be achieved if the contributions of all the stakeholders: faculty, staff, students, alumni, partners, industry and collaborators from industry are aligned and support each other. Therefore, the vision outlined in the Plan will then be realized, and Dr. D. Y. Patil College of Engineering and Innovation can be justifiably and we will be proud to make our institute with name and fame in the society.