

Priyadarshini College of Engineering, Nagpur





Priyadarshini College of Engineering

(Recognised by A.I.C.T.E., New Delhi & Govt. of Maharashtra, Affiliated to R.T.M.Nagpur University)

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STRATEGIC PLAN 2018-25



(Accredited by NAAC at A+ , UG Mechanical, Electronics & Telecomm, Electronics & Power, Civil, Computer Science, Chemical, Bio Tech, Electrical Engineering programs are Accredited by NBA)

Priyadarshini College of Engineering

About us : Lokmanya Tilak Jankalyan Shikshan Sanstha (LTJSS) founded in 1983, today runs 28 Educational Institutions and is considered synonymous with excellence in Education. Sanstha derives its philosophy from the eminent mathematician, educationist and social reformer Lokmanya Bal Gangadhar Tilak. Priyadarshini College of Engineering (PCE), Nagpur, is a flagship institution belonging to LTJSS established in 1990's and is one of the premier technical institutions in Central India. Set up on a hilly terrain, with unique features like number of elegant and spacious buildings, swimming pool, planned landscapes with lush green lawns good network of beautifully designed internal roads, street lightning and parking areas. The institute imparts technical education through fifteen undergraduate and eight postgraduate levels. The Institute is a recognized center for PhD in four programs encouraging the faculty for research and development & has a strong faculty pool with 104 Ph.D. The institution is accredited by NAAC at 'A+' with 3.31 in 2019 and its eight programs 1) Electronics & Telecommunication 2) Electronics & Power (Electrical) 3) Civil 4) Mechanical Engineering 5) Biotechnology, 6) Chemical Engg, 7) Electrical Engineering and 8) Computer science Engg are accredited by NBA. The institute has always envisioned instilling holistic education among the students balancing the knowledge, skill and behavioural aspects of students and have won several accolades at university level and state level. Various cell like Alumni, EDP, III, are strongly associated to reinforce profile of Training and Placement department to the leading edge. Human Excellence Cell of the Institute works hard for all round development of the students. Different life skills and value added courses like Soft Skill Training (SST), Employability Enhancement Training (EET), LAKSHYA, Campus to Corporate (C2C), Campus Recruitment Training (CRT) are conducted throughout the year for students. Women Empowerment cell of the institute takes care of gender related issues and institute has almost 50% female faculties and large number of girl students in the institute. The behavioral domain are strengthened through programs conducted by NSS, Rotaract Club and student forums.

Vision : To become one of the India's leading engineering institutes in both education and research. We are committed to provide quality and state-of-the-art technical education to our students, so that they become technologically superior and in turn contribute for creating a great society.

Mission: We commit ourselves to the pursuit of excellence in technical education and promise to uphold the spirit of professionalism to serve the humanity

Quality Policy: We at PCE are committed to design, develop and deliver effective technical education, industrial consultancy and R & D through a network of resources for bringing tangible benefits to its stake - holders. We shall achieve this through continuous improvement in our processes, products & services.

Core Values

Respect

Showing respect is a very important component of both personal identity and interpersonal relationships. To get respect could be considered a basic human right. Furthermore, respect moves us to understand the unique contributions of every person in the society as well it leads us to value diverse perspectives. Hence, in our college practicing this value would play a pivotal role.

Excellence

Excellence is a talent or quality which surpasses ordinary standards. It is also used as a standard of performance. At our Institute we strive to develop higher benchmarks by exhibiting quality in staffing, facilities, programs, and services by promoting continuous improvement and encouragement in interdepartmental collaboration among students as well as faculty..

Accountability and Transparency

In our institute we endeavor towards developing an atmosphere where every member takes responsibility for personal and professional growth. We often assess and enhance our policies to establish and impart characterized and explained objectives which ensure that our work increases the value of the college and society. We believe in having complete transparency at all levels of hierarchy to promote a healthier working and learning atmosphere to students as well as faculty..

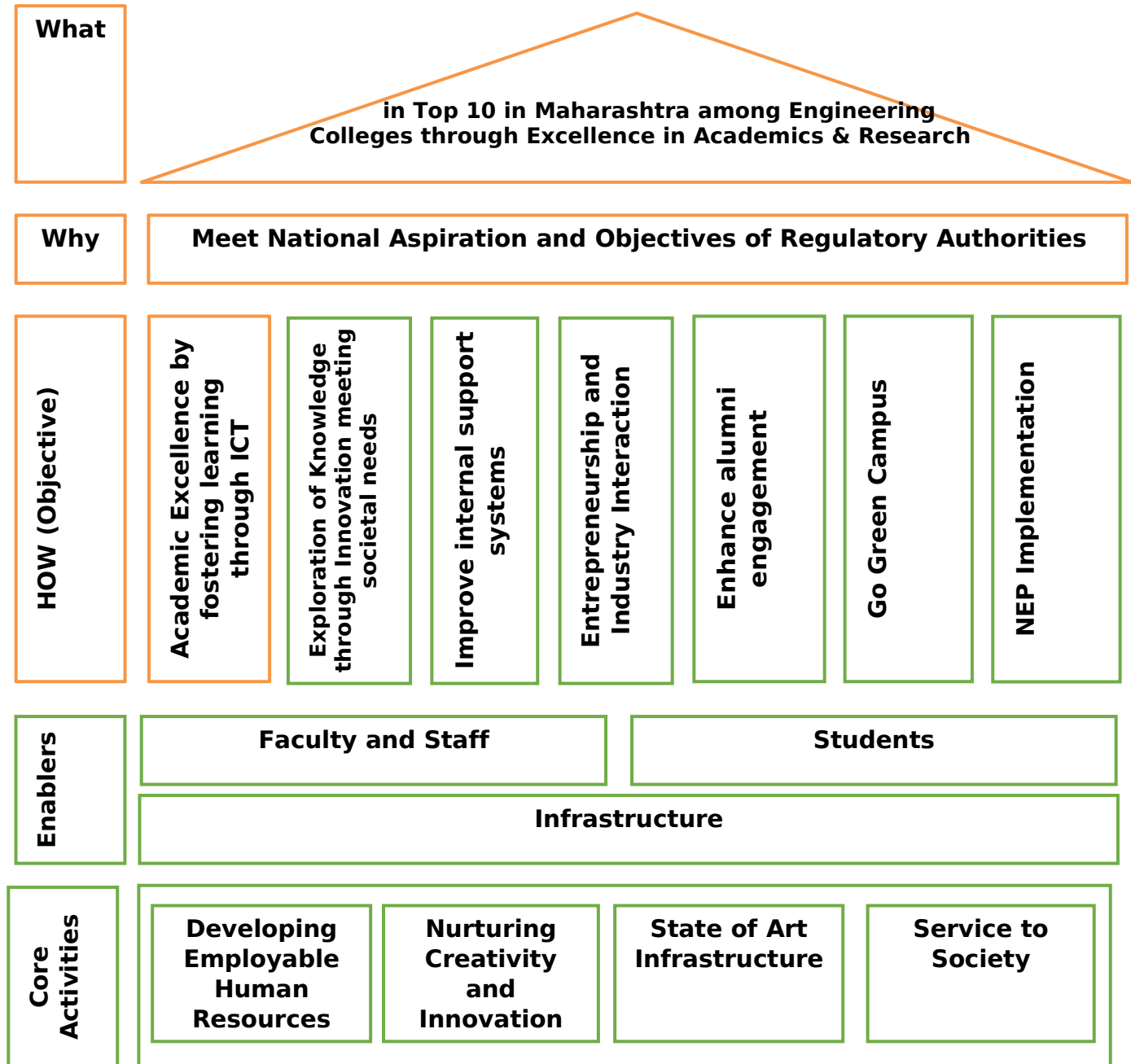
Encouragement

Encouragement helps our students to develop critical thinking, effective communication, ethical decision making and social obligation. In addition to that through encouragement our institute is able to produce a highly productive staff which will help us to achieve our organizational goals and vision. Hence, we as an Institute work in the direction of a motivated environment for staff and students..

Leadership

Leadership motivates the people to a higher level of performance through their strong human relations. Leadership is an important function of management which helps to maximize efficiency and to achieve organizational goals. In fact leadership is an essential part and a crucial component of effective management. At our institution we mold our students as leaders who excel in addressing the challenges of 21st century. Furthermore in our students we cultivate critical thinking, creativity and joy of lifelong learning to serve the society with whole heart and soul boldly..

STRATEGIC PLAN 2018-25



Goal 1: Academic Excellence by fostering learning through ICT

Values-based Education creates a strong learning environment that enhances academic achievement and develops students' social and relationship skills that last throughout their lives. The positive outcomes are achieved through teaching-learning methods blended with ethical values and cross domain research in cutting edge technologies. This leads to the all-round personality development of the students. It also provides social capacity to students, equipping them with social and relationship skills, intelligence and attitude to succeed at every aspect of their lives. A high quality of academic excellence can provide value-added experience for the students.

Strategies:

1. Curriculum Enrichment and Value Addition

Being an affiliating College the HEI has insignificant role in curriculum designing and development. However measures have been taken for Industrial certificate Courses, Value added courses and activities sensitizing students to cross-cutting issues such as gender, environment and sustainability, human values and professional ethics, development of creative and divergent competencies.

2. Pedagogy and Delivery Modes

The day to day classroom delivery is through modern pedagogy evenly balancing the traditional methodology. The classrooms are equipped with the required infrastructure to facilitate the new modes of delivery. The faculty are trained on the ICT methodologies and continuous apprise of the same is provided through conduct and participation in faculty development programmes, workshops and seminars. E- learning / online learning will be encouraged in addition to the traditional class room teaching-learning practice. Faculties and students are encouraged for MOOC- SWAYAM-NPTEL Certification.

Metrics / Measures

Key Result Areas	Measures
Curriculum Enrichment	Industrial Certificate Courses
	Courses focusing on Skill development and Employability
	Add on Courses
Learner Centric Curriculum delivery	Academic Plan as per OBE & Academic calendar
	Quality projects
	ICT utilization / Pedagogy Tools
	Online Self learning Resources
	Industry exposure through Internships
	Learning Management System
Smart Classrooms	Multimedia and support equipment
	E-Learning Facilities.
Laboratories	Periodic maintenance and up gradation
	Virtual Laboratory
	Additional Design and open ended experiments

Goal 2: Exploration of Knowledge through Innovation meeting societal needs

The Institute addresses and enhances students' imagination, initiative and practical skills and equips them to innovate and confidently cross the threshold of challenges. Added to the academic activity additional open ended experiments, Micro/ Mini Projects, Industrial based projects, Product based projects are encouraged. The innovative idea of students are transformed into reality by:

- **Project Based Learning from micro to macro levels involving processes and products.**
- **Enhancing collaborative projects with academic institutes, industry.**

Metrics / Measures

Key Result Areas	Measures
Research Publications	Numbers of papers published in reputed National and international journals
	Numbers of papers presented in reputed National and international conferences
	Faculty as reviewers for reputed journals
Frontiers of knowledge	Operational Centers of Excellence
	Conferences/seminars/workshops conducted.
	MOUs with higher learning institutes in India & broad.
Patents and copyrights	IPR Workshops
	Number of Indian Patents
	Books and Monographs, Copy rights

Goal 3: Improve internal support systems

The Institute has installed a modern and comprehensive Enterprise Resource Planning (ERP) system after streamlining all processes with the aim of improving efficiency and transparency of operations. The number of technical staff in the departments will be increased, including senior staff with higher qualifications.

The Institute will enhance the purchase section to provide greater support for facilitating purchases in a timely manner. The Institute will provide adequate staff and online systems to enable maintenance of the estate and buildings at a higher standard.

Action points

- Simplify systems and processes with a modern ERP system.
- Conduct annual satisfaction survey.
- Service orientation and training for staff, service response and online complaint systems.
- Establish improved faculty orientation and mentorship programme for new faculty members.

Metrics/Targets

- Reduction in average processing times
- Continuous improvement on satisfaction survey scores
- Tracking and reduction in complaint redressal times

Goal 4: Entrepreneurship and Industry Interaction

The Institute aims to create an ecosystem for deeper collaboration with industry in several modes, including consultancy, sponsored research projects, technology transfer and continuing education. Measures are taken to transform classroom learning to a project based experience. The idea to innovate is encouraged through the **Innovation Competition** and the best idea is rewarded. Infrastructure is provided to implant the ideas. Young technocrats get opportunities to exploit their full potential by setting up their own ventures thus becoming "job generators" rather than "job seekers". Strategy to provide a platform to business Start-ups to develop the innovative ideas into commercially viable products.

Training and mentoring to the students is given through **Entrepreneurship Development Cell** to realize the idea into application/ product at institute. Initial awareness on entrepreneurship is facilitated by conducting awareness camps, guest lectures, seminars, workshops, and skill development programmes.

The **Industry Institute Interaction** Cell proactively builds partnerships with industry in areas of strengths of the Institute. Collaboration with the industry is built through well-structured student internships and appointment of industry professionals as Visiting Faculty. A significant quantum of research will originate from problems identified as a result of the faculty's engagement with industry.

Metrics / Measures

Key Result Areas	Measures
Industry Collaboration	Industry Supported Labs
	Student Internships
	Knowledge exchange through seminars and workshops
	Faculty as Corporate Trainer
	Consultancy and Testing to industry
	Sponsored and funded collaborative research
	MOUs with Premier industries
Innovation and Entrepreneurship	Exclusive incubation facility
	Proactive participation of Students and Faculty
	Focus on Product development
Resources & Infrastructure	Exclusive facility for R&D
	Licensed Technologies

Goal 5: Enhance Alumni Engagement

Alumni have been key stakeholders in the Institute's evolution and growth. Alumni achievements have been a source of pride for the Institute and have contributed significantly in society. Plan for active alumni chapters in various cities in India and several initiatives from the alumni to support some of the Institute goals. Donations from the alumni will result in creation of new infrastructure (convention centre, innovation centre) and support towards student facilities and counseling. The Faculty Alumni Network (FAN) will help the Institute in identifying and attracting young researchers and academics to faculty positions at the Institute. The Institute has Distinguished Alumnus. The Institute conducts several events to engage with alumni within India and around the world. A dedicated committee manages alumni interactions, supported by a new entity. The Institute will make efforts to enhance the engagement with all alumni. The focus will be on a two way interaction.

The Institute is committed to lifelong involvement with all students who will continue to be part of PCE family even after they graduate. The Institute will build its engagement on adding value and support to the alumni in their careers and professions with specialised training, lectures, access to the latest research and help with networking. The Institute will welcome alumni visits to the departments and will provide opportunities for alumni to interface with students and faculty and participate in the research and educational activities at the Institute.

Action points

- Create an Alumni Centre at the Institute to support alumni visits, activities and engagement.
- Initiatives for supporting alumni needs for continued learning and career improvement. Lifelong Learning Modules targeted for Alumni.
- Multiple interaction modes such as, interaction between alumni and students, mentoring, interaction between alumni and faculty, alumni inputs for curriculum development, alumni support for student placements and internships, alumni

involvement in Department Advisory Committees and in enhancing the innovation ecosystem at PCE.

- Engage alumni as adjunct faculty.

Metrics/Targets

- Number of alumni visitors to Alumni Centre and the Institute: 300 per year
- Number of meets/networking events for alumni: 2 per year

Goal 6: Go Green Campus

The Institute is committed to grow sustainably and develop as a model clean, green campus. The existing Green Campus Committee which consists of representatives from students, faculty and staff decides campus policies to promote sustainable practices and maintain the flora and fauna of the campus. This committee will be supported by a cell that will monitor, implement and enable the policies and initiatives of the Committee. Initiatives will include smarter buildings, energy efficient appliances, increased use of renewable energy, improved solid waste and waste water management systems, increased recycling, and making the campus more pedestrian and cycling friendly. The campus will move towards a reduced energy and carbon footprint (low carbon campus) and a zero discharge campus. Policy and facilities for energy, waste management and emissions control are in place.

Action points

- Low carbon campus growth.
- Involve students in campus planning including green initiatives.

Metrics/Targets

- Setup a cell which will monitor, implement and enable policies and initiatives of the Green Campus Committee
- Planning & continuous efforts taken towards reducing carbon footprint water footprint, energy footprint
- Improvement on green metrics

Goal 7:NEP Implementation

A new national education policy 2020 as announced and being implemented as per the directives of ministry of education and human resource development, the institute shall leave no stone unturned to adopt the same in letter and spirit.

Below mentioned are some of the indicative measures the institute will embark upon to honour the spirit and intent of NEP 2020.

The institute shall not embrace any hard separations between arts and sciences, between curricular and extra-curricular activities, between vocational and academic streams.

The institute shall adopt assessment reforms for holistic assessments of the learners.

The institute shall adopt and will become an active member of PARAKH (Performance Assessment, Review, and Analysis of Knowledge for Holistic Development)

The institute will ensure equitable and inclusive education with a special emphasis given on socially and economically Disadvantaged Groups (SEDGs)

The institute will adopt full scale learner centric teaching learning model.

The institute will adopt robust and transparent processes for recruitment of teachers and merit based performance.

The institute will ensure availability of all resources in the campus and through the clusters.

The institute will ensure exposure of vocational education to all the learners.

The institute shall abide by national target of gross enrolment ratio.

The institute shall remain committed to holistic and multidisciplinary Education with multiple entry/exit options.

The institute shall adopt establishment of Academic Bank of Credit.

The institute will develop skill development workshops for all the learners.