

**INSTITUTIONAL  
STRATEGIC  
PLAN**

**PET ENGINEERING COLLEGE, VALLIOOR**

*Submitted before Governing Council on 25.08.2018.*

*Availability of the Institutional Strategic Plan and its  
effective implementation and monitoring.*

*Approved by the Governing Council in 24th GC meeting.*

*[Signature]*

PRINCIPAL & MEMBER SECRETARY

*[Signature]*

CHAIRMAN



*[Signature]*  
Principal  
PET ENGINEERING COLLEGE  
Vallioor - 627 117.

## Executive summary

### About the PETEC

---

**“The well being of the world largely depends upon the work of the engineer.**

**There is a great future and unlimited scope for the profession”.**

India has the potential to develop the best talent pool with competent engineers adaptable for the 21st century. Realizing this potential Popular Educational Trust a registered Charitable Trust started PET Engineering College, to impart Technical Education of high caliber to meet the growing needs of Engineers and Entrepreneurs in business and industry. It is a place for learning, discovery, innovation, expression and discourse.

A well defined vision, highly committed mission and dedicated leadership facilitate the college to be in the best of educational institutions in the southern zone. The state – of – the- art and sophisticated laboratories internet centres, modern library, sports playgrounds and the lush greenery make it one of the most preferred destinations for young engineering aspirants. The College is affiliated to Anna University and is also approved by the All India Council for Technical Education, New Delhi. It is an ISO 9001 – 2015 certified institution which started functioning from 28th September 1998 in its permanent campus.

The motto of the institute is to work uninterruptedly for fruitful dissemination of knowledge to its students with the solemn aim of making them worthy citizens of the country. The claim has been vindicated by a large number of alumni glittering in the national and international arena.

#### **Academic units and programs**

PET offers Bachelor of Engineering (B.E) programmes in five disciplines, namely:

##### **UG COURSES**

- B.E in Civil Engineering
- B.E in Computer Science and Engineering
- B.E in Electrical and Electronics Engineering
- B.E in Electronics and Communication Engineering
- B.E in Mechanical Engineering

## **PG COURSES**

- · M.B.A
- · M.C.A
- · M.E – Communication Systems
- · M.E – Computer Science

## **VISION AND MISSION STATEMENT**

### **VISION**

- To contribute quality Engineers and Managers to our nation and remain a source of pride in this region.

### **MISSION**

- To generate human potential by providing inputs like competent faculty, infrastructure and laboratory equipment.
- To implement skill development programmes for Engineers / Managers to solve practical problems in the society.
- To provide avenues for developing entrepreneurial skills and to create an urge for higher studies in core and inter - disciplinary areas.

### **The PET Planning Model**

Institutions of higher education are driven to engage in strategic planning by a variety of critical forces, both external and internal, to their environments. The forces driving the PET'S 2019-2024.Strategic Plan for the Institution PET Engineering college include, the demand for higher education that is fueled by the economic progress and high unemployment; changing demographics; and the need for a workforce that will enable this region of Tamilnadu state to maintain its competitive edge on the national stage encompassing Technology and Engineering.

## **Library**

At present Library has over 41293 volumes and subscribing for more than 130 Journals, 50 magazines and 820 online international journals in all branches of engineering, MBA and MCA degree courses. In addition to this College Library is a member of DELNET and ISTD

## **Student organizations**

### **Technical clubs**

- Computer Science and Engineering Association
- Electronics & Communication Engineering Association
- Electrical & Electronics Engineering Association
- Civil Engineering Association
- Mechanical Engineering Association
- IETE Chapter
- Entrepreneur Development Cell
- Placement and training cell

### **Service clubs**

- NSS, YRC
- Rotaract Club
- Renewable energy club

To conceptualize learning outcomes in more comprehensive terms, the Institution has developed a set of core competencies, distinguishing academic and personal abilities, as follows:

### **Academic Competencies**

- Disciplinary knowledge
- Critical thinking
- Communication skills
- Scientific and quantitative reasoning
- Self-directed learning
- Information literacy
- Engagement in the process of discovery or creation

### Personal Competencies

- Multicultural competence
- Moral and ethical awareness
- Self-management
- Community engagement

### Research activities

Although the institution primary goal is to impart the syllabi content to the UG students, the faculty has showcased good research acumen.

### Strengths

- A 23 year old institution with least attrition rate
- Constant encouragement and full-fledged support from the Management.
- Sprawling Campus in a serene environment with excellent infrastructure. Well-equipped labs.
- Faculty who is devoted to his/her duty and maintains absolute integrity, honesty, discipline, impartiality and a sense of propriety.
- Distinctive and well experienced faculty who are passionate towards teaching and inculcating moral values and social responsibilities in the students.
- Dedicated, well-qualified and competent faculty with research intent.
- As the faculty members are being paid a higher pay as per norms, faculty retention is excellent. They are given full academic freedom.
- Dynamic HODs' actively assisting the head of the institute in ensuring the ethical practices, maintaining teaching standards, and promoting healthy human relations among faculty and students in the department.
- Our students consistently secure University ranks.
- Additional topics, beyond syllabus are covered by the teachers.
- College works for 6 days in a week, in a staggered manner, so that the students and faculty get an extra day for special coaching, research and other professional development activities.
- The college recognizes and appreciates top academic performers in each class in the internal evaluation and University examinations.
- Effective mentoring system providing constant guidance to the FRC.
- Providing scope for all-round development of personality of the student through Sports, Associations and Clubs.

- Periodic research orientations like National and International Conferences, Workshops/Seminars. Excellent Placement Records. Effective involvement of alumni in placement of out-going students.
- Effective involvement of alumni in placement of outgoing students.
- Certifications like ISO and recognitions from various institutional bodies.
- College has entered into memorandums with several institutions like ICT academy, Tamilnadu, Reem International Pvt.Ltd, Sakthi Automobile industries, Agape technology, Nellai Polymer, Face it App, SA constructions, Hifi Technologies, Banu constructions the College focuses to have collaboration with other reputed institutions and universities.
- Home away from home ambience in hostel.

### Weakness

- Industry-Institute interaction needs improvement.
- Centre of excellence need to be established for all departments.
- Consultancy and extension activities need improvement.
- Improving the number of MoUs and collaborations with large scale industries and reputed professional bodies as well as universities.
- No technology incubators to transfer the technology to industries.
- Enhance communication skills of students to meet the demands of global market.
- Self-interest of students is minimum for their professional growth
- Even after quality teaching, the times spend by the students for studying at home is very minimum.

### Opportunities

- Emphasis on solar based renewable energy sources and use of Power saving appliances.
- Offering value added courses/online courses/Certification programmes.
- Opportunities to carryout research projects and any other research initiatives.
- Scope for commercialization of research outcomes.
- Initiate 'Start-ups' within the Campus.
-

### Core values

- Professionalism, Commitment, Integrity, Team Work, Innovation

### PETEC's 2019-2023 Strategic Plan is grounded in the following best practice principles

- Effective strategic planning requires identifying and implementing strategies that will move PET to a better desired future as an educational institution in the southern-district of the state of Tamilnadu, nationally, and globally.
- Strategic planning is not a “once-and-done” event. It is a continuous process involving planning, implementing and assessing outcomes and using results and lessons learned, for further planning and revision of strategies.
- Measurement and/or assessment are key to strategic planning. Therefore, identifying key indicators and goals and identifying responsible divisions/units will ensure effective monitoring and evaluation of outcomes.
- Since the execution of strategies is at the department or unit level, the strategic planning process has to be participatory to ensure shared vision, as well as shared ownership and commitment to the plan by stakeholders throughout the Institution.
- The strategic planning process uses methodical approach to engage in systematic and comprehensive assessment of the annual PET strategic operational plan. Goals are carefully tracked; and reports are regularly disseminated to assist faculty, staff, and administrators in using data-driven decision making and mapping progress.
- The 2019-2023 Strategic Plan represents the collective effort of administrators, faculty, staff, students and community stakeholders. The process began when the Strategic planning Committee is identified in the institution. Strategic planning Committee aligned department/unit goals with the PET goals and themes. Every member of Strategic planning Committee worked diligently to add goals and strategies.

### Major Goals-Strategic Plan

- To get NAAC accreditation.
- To get NBA Accreditation.
- To motivate all the faculty members to register Ph.D by 2021.
- To become one of the premier technical institute by 2023.
- To Improve the Employability skills of the students.

- To encourage the students participating in co-curricular/extracurricular activities.
- To get research centre recognition for eligible departments.
- To encourage faculty members to publish papers in reputed International/National Journals with good impact factor.
- To offer more value-added certification courses in addition to the existing courses and provide coaching for competitive exams.
- To utilize R&D cell as a platform to disseminate scientific knowledge to the academic community by conducting international and national level conferences and workshops.
- Improving the number of MoUs with industries, national and international organizations.
- To start technologically strong incubation / Start-ups centre.

### Broad Strategic Directions

Following are four strategic themes that identify broad directions for responding to the challenges in PET's changing external and internal environment. These themes are manifest in several objectives and actions proposed in subsequent sections of this plan:

- Focus
- Adaptability
- Coordination
- Efficiency

*To become more focused*, it is necessary to make difficult choices about which academic areas or units needed to show emphasize and which to de-emphasize; what to keep and strengthen; what to downsize or eliminate.

*To become more adaptable*, PET's administrative arrangements and structures need to be more flexible, to be evaluated and changed on a continual basis, and to have fluidity so that they do not become a setting stone.

*To introduce more coordination*, the institution needs more permeable boundaries and connectivity across academic fields, disciplines, programs, and colleges, so that both students and faculty can cross these boundaries or transcend them, when opportunities to enhance academic excellence emerge and also to ensure that the institution uses its intellectual resources efficiently and effectively.

*To be more efficient*, PET needs to examine administrative structures and policies carefully, with an eye towards creating a tighter fit between our methods of accomplishing tasks and the institution's goals and aspirations.

Greater focus and connectivity are essential to preserve and enhance academic excellence, whereas greater adaptability and efficiency are especially critical to the stewardship of resources.

Strategic Plans and Goals (2019-2023)

<b>GOAL NO.</b>	<b>GOAL</b>	<b>ACTION PLANS</b>
<b>I</b>	<i>Provide undergraduate students with an excellent engineering education.</i>	<ul style="list-style-type: none"> <li>• <i>Map the delivery of engineering education to the current learning modalities of the students.</i></li> <li>• <i>Expand opportunities for students to engage in leadership, global experience, volunteerism, innovation and entrepreneurship activities to match their passion.</i></li> <li>• <i>Deliver a comprehensive certificate program with intellectual challenges that inspire students to expand their horizons.</i></li> </ul>
<b>II</b>	<i>Improvise teaching &amp; learning.</i>	<ul style="list-style-type: none"> <li>• <i>Providing high-impact, cost effective engineering education that prepares students to be engineering leaders.</i></li> <li>• <i>Expand opportunities for global experiences.</i></li> <li>• <i>Enhance resources (facilities, faculty and staff) to meet the growing demand for an engineering education.</i></li> <li>• <i>Upgrade teaching-learning process to create impact.</i></li> </ul>
<b>III</b>	<i>Enhance opportunities for research and Innovation catering to both staff and students.</i>	<ul style="list-style-type: none"> <li>• <i>To create distinctive and internationally recognized contributions to the advancement of fundamental knowledge and contribute solutions to the world's most pressing problems.</i></li> <li>• <i>Increase opportunities for students to practice the skills needed for thriving research careers.</i></li> <li>• <i>Expand professional development programs to increase awareness about different career paths.</i></li> <li>• <i>Develop curriculum for certification programs and/or role specific training.</i></li> </ul>
<b>IV</b>	<i>Faculty retention on regular basis</i>	<ul style="list-style-type: none"> <li>• <i>Periodically identify strategic areas for investment to recruit, retain and develop faculty.</i></li> </ul>

		<ul style="list-style-type: none"> <li>Recruit highly qualified PhD graduates.</li> <li>Hire senior faculty in strategic areas to build globally competitive research team.</li> <li>Establish effective mentoring programs to retain faculty.</li> <li>Establish large-scale teaching and research facilities to recruit and retain faculty.</li> </ul>
V	Upgrade Instructional technology services.	<ul style="list-style-type: none"> <li>Arrange training in using ICT tools in teaching learning process.</li> <li>Recruit experts.</li> <li>Smart classrooms.</li> </ul>
VI	Enhance Alumni relationships	<ul style="list-style-type: none"> <li>To foster more extended relationships between alumni and present students, staff and others associated with the College.</li> <li>To generate funds for the development and betterment of the College and also for the promotion of the objectives of the association.</li> <li>To institute prizes, scholarships to meritorious students and give financial aid to poor and deserving students of the college.</li> </ul>
VII	Enhance and promote multidisciplinary research and collaboration	<ul style="list-style-type: none"> <li>Organize networking events to promote collaborations and multidisciplinary research.</li> <li>Adapt tenure and promotion and annual review policies to recognize and reward multidisciplinary research.</li> <li>Provide technical and communication assistance to faculty who are leading large multidisciplinary research proposals.</li> <li>Improving the number of MoUs and collaborations with large scale industries and reputed professional bodies as well as universities.</li> </ul>
VIII	Promote an organizational environment that values development, diversity and growth opportunities for all employees.	<ul style="list-style-type: none"> <li>Elevate the importance of staff development opportunities to department heads.</li> <li>Provide career paths inclusive of development plans to include benchmarks.</li> </ul>
IX	Promote Village adoption	<ul style="list-style-type: none"> <li>Identify nearby villages for adoption to render social service activities.</li> </ul>
X	Getting NBA accreditation & NAAC accreditation	<ul style="list-style-type: none"> <li>Upgrading the standard of the college in all spheres to meet the requirements of accreditation.</li> </ul>
XI	Establish Centre of excellence for all departments.	<ul style="list-style-type: none"> <li>Establish and operationalize centres of excellence</li> <li>Provide ample opportunity for the students and staff to comprehend the latest industry practice and upgrade their knowledge through industry relevant projects</li> </ul>

*[Signature]*  
Principal

**PET ENGINEERING COLLEGE**  
Valluor - 627 117.