

Preamble:

Quality Technical Education is the need of the hour in the context of the globalized scenario. Improvisation of standards of living in the Human Society demands Technological innovation. Innovative Methods of Teaching-Learning making use of the emerging technological trends and wider exposure to the global requirements would facilitate Technological Innovation that leads to Inventions. An integrated approach to learning fosters a vibrant Technological environment.

Prasad V. Potluri Siddhartha Institute of Technology has been constantly on the march in creating opportunities for Academic Excellence and Quality Sustenance through its Unique plan of Action and Execution. It is a harbinger for Technological Progress owing to its effort in producing competent Human Resources. With over two decades of Academic Excellence and the relentless Quest for Innovations, the Institution adheres to Quality Standards.

In Alignment with the vision, Mission and Quality policy of the Institution, and as a progressive attempt, the second Strategic Plan and Deployment Document is prepared on the basis of the assessment of the efficacy of the execution of the first strategic plan.. The Institution aims at growth in Research and Innovation, Employment and Entrepreneurship, Quality sustenance and social Responsibility including Universal Human Values.

Firm Ethical Base, promoting Leadership, Skill Development are the parameters focused upon in tune with the New Education Policy aiming at an Advanced Status for the Nation in the Technological World. The main aim of this strategic Plan is to maximize Technical and Non-Technical Competencies of Students and thus make them truly self-confident and self-reliant.

2. Philosophy

The Philosophy of PVPSIT is to maximize the potential of Human Resources and enabling them to explore the Higher levels of Learning that would result in increased possibilities. The Motto “Atma Deepo Bhava” stands as the guiding spirit in maximizing the Human Potential.

3. Vision

To provide rich ambience for Academic and Professional Excellence, Research, Employability skills, Entrepreneurship and Social responsibility.

4. Mission

To empower the students with Technical knowledge, Awareness of up-to-date technical trends, Inclination for Research in the areas of Human Needs, Capacity building for Employment / Entrepreneurship, Application of technology for Societal needs.

5. Quality Policy

At PVPSIT, We commit ourselves to offer Quality professional education in Engineering & Management by adhering to applicable Statutory and Regulatory requirements and through continuous improvement in the Quality of our services by,

- Regular upgradation of Knowledge and Skills of Faculty
- Improving the teaching Methods and Strategies
- Providing state of art Infrastructure
- Recruiting competent Faculty and maintaining prescribed Teacher Student Ratio
- Improving the Employability of Students
- Enhanced Collaboration with Industry and Institutions of National and International Repute

6. Core Values

- i. Value Based Education
- ii. Technological Innovation
- iii. Sustenance of Quality
- iv. Social Responsibility

7. Quality Objectives:

- 7.1. To attain Academic Excellence and upgradation of Knowledge and Skill
- 7.2. To foster enhanced Industry-Institute Interaction
- 7.3. To create opportunities for Research & Development
- 7.4. To provide Avenues for Employment and Entrepreneurship
- 7.5. To promote Community Development by inculcating the sense of social responsibility
- 7.6. To relentlessly endeavour for effectiveness of the system through Internal Quality Assurance System.

7.1 Attaining Academic Excellence through Need based curriculum and Skill Development

Curriculum Design plays a Pivotal role in fostering Academic Excellence. The Curriculum should be in accordance with the requirements of the Industry. Only then, it would create Avenues for employment generation and Career Progression. Structured Feedback obtained from the Stakeholders, especially the Employers and Alumni successfully placed in reputed Organizations would be a tremendous source for initiating necessary changes during the revision of Curriculum. A Well designed Curriculum with abundant scope for value added courses, Certification Programmes, Self-Learning, Skill Development Programmes will certainly yield the desired result. Internships, Industrial Visits, Guest Lectures, Workshops, Conferences, and Projects would be of immense help in improving the capabilities of Students.

Revision of Curriculum based on the Feedback obtained from prominent Alumni, Personnel from reputed Corporates create an opportunity for achieving the course outcomes, Programme outcomes and program specific Outcomes. Digital Library, ICT in Teaching-Learning, Moodle Platforms etc. facilitate Learning and thus contribute to the success of the Student. Training Programmes, Seminars and other Co-Curricular activities promote the required Professionalism in the Student.

Every care is taken to nurture and nourish the inherent ability of the Student and the Institution has to make every attempt to promote the Creative impulse.

Lacuna in the Curriculum if any has to be identified and properly bridged through various Bridge Courses. Assessment of Co-Po attainment would be of immense help in strengthening the Teaching-Learning Process.

Key Areas	Measures
Revision of Curriculum	Open Electives skill development Courses Stake Holder feedback Continuous Assessment Scope for self-Learning
Infrastructure	Creation of E-Learning Facilities Digital Library Smart Class Rooms Provision of LEDs in all Class Rooms Seminar Halls with LEDs
Innovative methods of Teaching	Flip Class Blended Class Online self-Learning Resources Student centric Methods.

7.2 Enhanced Industry –Institute Interaction

Exposure to the Industries would create in the Student a Zeal for Innovation and Invention. Students can acquire various skills through Industrial visits and Internships. They gain awareness on the emerging areas of Research. Industry-Institute interaction can be facilitated through functional MOUs. Industry Personnel may be invited to deliver Guest Lectures and Resource Persons from Industries may be drawn for organizing Workshops. New areas of Knowledge may be explored. Students can gain exposure to product design and delivery.

Metrics / Measures

Key Areas	Measures
Industry-Academia Partnership	No. of Collaborative Programmes No. of Workshops
Linkages with Industry	Functional MOUs
Practical Skill enhancement	No. of Industrial visits No. of Internships

7.3 Creation of opportunities for Research and Development

Globalization has lead to increased need for Research. Research plays a vital role in the societal development. The Institution addresses all the challenges the students face with regard to Research and Development by providing well equipped Laboratories. The needs in the Local Society are identified to promote Need based Research. Research Centres are established, Research Groups are formed, Model Expos held to create a Passion for Research. Application of Technology for Societal needs, Local Agricultural requirements are the Areas of Focus.

Research Groups are formed recognized Research Centres are established. Seed Money is provided. All necessary Support is extended to apply for Funded Projects. Faculty are encouraged to attend Training Programmes, visit renowned Academic Research Centers with financial support.

The Institution aims at identifying the probem, identifying the Resources needed, hold discussions on emerging Technologies, submit project proposals, execute in-house Student Projects. The effort may lead to Research Publications.

Incentives are provided for Quality Publication in referred National/International Journals.

Financial Support is provided for publication of Patents.

Metrics / Measures

Key Areas	Measures
Research Publications	No. of Papers published in National/International Journals No. of Papers presented in National/International Conferences Faculty as reviewers of Journals
Research Centers	No. of Recognized Research Centers Faculty recognized as Research Guides No. of Ph.D. scholars guided Memberships in Professional Societies
IPR and Patents	Patents Published Patents granted

7.4 Providing Avenues for Employment and Entrepreneurship

Training and Placement Cell caters to the Training needs of the Students. Industrial needs are identified and the required skills are imparted to the students. Special Training Programs on Technical Skills, Reasoning and Aptitude, Communication Skills make the students ready to meet the requirements of the multi-national firms. Company specific training provides necessary inputs to the students to aim for high package Companies. Reputed Industries visit the Institution to conduct Campus Recruitment Drives. Mock Interviews give the Student an added advantage and instills necessary confidence.

Entrepreneurship Development Cell provides necessary Training and Mentoring. Awareness is made through Awareness Meets, Guest Lectures, Seminars, Workshops, Business Plans and Skill Development Programmes. Programmes like Ideathon, Idea Generation Contests and Hackathons are conducted to encourage Innovation.

Metrics / Measures

Key Areas	Measures
Employment	No. of Training Programmes held No. of company specific trainings held No. of students recruited No. of students offered High Package
Entrepreneurship	No. of Awareness Camps organized No. of Start Ups initiated No. of Idea Contests held

7.5 Promoting Community Development by inculcating the sense of Social Responsibility

The focus of the Institution is to see that the Students turn out to be responsible Individuals involving themselves in Community Development Projects and are capable of applying Technology for Societal Needs. Professional Ethics and Human Values, involvement in co-curricular and extracurricular activities, exposure to Cultural Diversity, Personality Development sessions make the student evolve himself as the trained Technocrat desirous of solving the societal problems and serving the society. Human values such as Empathy, Compassion, enable the Student to be useful to the society.

The Locational Advantages and Disadvantages are addressed through application of Technology. Cost effective Technologies are used. The Institution believes in societal development through various community development projects by involving students and inculcating in them the sense of social responsibility. Institution gives top priority to fulfilling its Social Responsibility.

Metrics / Measures

Key Areas	Measures
Community Development Programmes	No. of Blood Donation Camps organized No. of Plantation Programs taken up No. of Service Camps organized No. of Programmes conducted under village adoption scheme Amount contributed towards eradication of Poverty No.of health Camps organized
Application of Technology for societal needs	No. of Digital Literacy drives No. of products designed to address the local needs No.of Innovations to cater to the Societal Needs

7.6 Institutional Effectiveness through Internal Quality Assurance System.

PVPSIT continuously strives to attain Assurance of Quality in all aspects. It constantly reviews its processes, procedures to arrive at a coherence with its vision and mission. To provide necessary Support to the key areas of Strategic Plan, it ensures the effective utilization of Human Resources and optimal use of Financial Resources. Continuous monitoring of the Success Indicators, Review of all the processes pave way for attaining quality. Quality circles are formed

Knowledge and Development of intellectual Acumen would make the Students well equipped with skills required for contributing to the societal development. The students of PVPSIT can play a major role in the transformation of society by entering into their professional roles fulfilling their Responsibilities. They can play a significant role as decision makers. They can contribute to Technological Innovation.

To reach the Goals and fulfill the Vision, the Institution needs to work effectively. The Institution lays constant effort to hone the Skills and enhance the Technical and Non-Technical competencies of students by fostering a Congenial Environment with high Ethical Standards. The following procedures are adopted to sustain Quality.

Ascertaining Transparency Maintenance

of Quality Standards Sustenance of

quality.

Academics, Research Activities, Placements, Entrepreneurship, Community Development Activities are closely monitored and relevant action taken to ensure Quality. Talent is recognized and retention of Faculty is given top Priority. Opportunities for Professional Growth, Collaboration are facilitated. Quality improvement is done through improvement of Qualification. Faculty Development, Leadership Development Programs, Workshops, Seminars and Conferences.

Opportunities for Industrial Training are provided to the students for enhanced practical exposure. Orientation Programs, Certification Courses, Linkages with the Industry, use of ICT in Education, well equipped Teaching-Learning tools facilitate quality.

Strategic Goal:**I. Attaining Academic Excellence through Need based Curriculum and Upgradation of Knowledge and Skill****Key Areas:**

1. Revision of Curriculum 2. Infrastructure 3. Innovative Methods & Teaching Learning

Key Areas	Present Status(2020-2021)	Proposal(2025-2026)
1.Revision of Curriculum	PVP 20 Regulations are in force. CBCS is introduced. Thrust laid on outcome based Education	• Introducing minors and Honors Degree. • Courses focusing on Skill Development. • Introducing Mandatory Internships • Certification Programmes/ Value Added Courses
2.Infrastructure		
i.Class Rooms with ICT facilities	100% of the Class Rooms have ICT Facility	• Efficacy in optimum use of ICT facilities.
ii.Laboratory Upgradation	As per revised Curriculum	• As per the revised Curriculum and beyond the Curriculum
iii.Industry supported Laboratories	SAC Robotics Lab – ME Dassaults Lab – CSE CM Skill Development Centre - CSE	• 50% of the Departments should have Industry supported Labs

3.Innovative Methods of Teaching Learning		
i. Teaching Methods	Student Centric Methodology Use of ICT	• Student centric Teaching –Learning. • Innovative Methods. • Interactive and self-Learning
i. Faculty attending FDPs (one week / two weeks)	More than 80% of Faculty have attended FDPs in Institutions of National Repute. More than 50% of Faculty attended FDPs with Financial Assistance	• 90% of the Faculty should attend FDPs with financial support.

II. Enhanced Industry – Institute Interaction

Key Areas:

1. Industry-Academia Partnership 2. Linkage with Industry 3. Practical Skill enhancement

Key Areas	Present Status(2020-2021)	Proposal (2025-2026)
1. Industry – Academia Partnership	Guest Lectures are conducted inviting Industry Personnel.	Two collaborative programmes per Year per Department
2. Linkage with Industry	No.of Functional MOUs - 60	No.of Functional MOUs should be raised to 85
3. Practical Skill enhancement	Two Industrial Visits per Year	- Two Industrial visits 75% Internships, Field Projects, - Atleast two Faculty from Each Department should be on the board of Members in Industries.

III. Creation of opportunities for Research & Development:

Key Areas:

1. Faculty with Ph.D qualification 2.Publications 3.R&D fund 4.Patents 5. Programmes on IPR, Research Proposals 6. Seed Money 7.Consultancy

Key Areas	Present Status(2020-2021)	Proposal (2025-2026)
1. Faculty with Ph.D qualifications	37% of the Faculty have Ph.Ds	50% of the Faculty should have Ph.D
2. Publications		
i. Total No.of Research Publications in Standard journals	255 Publications	275 Publications in Indexed Journals
ii.Total No.of Publications in Conferences.	24 Publications in conferences	Minimum of 35 Publications in National and International Conferences.
iii. Total No.of of Books and Book Chapters	39	40 to 45 Publications as Books or Book Chapters.
3. R&D fund	15 Lakhs	Minimum of two funded projects worth 15 Lakhs in a period of two years per each Department from Reputed Funding Agencies.
4. Patents	No.of Patents published – 91 No.of Patents Granted - 53	A minimum of 125 patents should be published and 100 patents should be granted.

5. Programmes on IPR, Research Proposals and paper publications	IQAC has organized 4 Programmes on Research proposals. The Departments have organized a minimum of one programme on Research Proposals	• A minimum of two programmes should be organized by every Department in an Academic Year
6. Seed Money	Rs.6,35,000/- has been spent as seed money .	• A minimum of Rs. 8 Lakhs per year should be utilized as seed money to develop Research Ideas.
7. Consultancy		• Minimum one Training programme should be conducted by every Department. • A minimum of 10 Lakhs Rupees per year should be obtained through consultancy work. CSE: 1 Lakh per year IT: 1 Lakh per year ME: 1 Lakh per year ECE: 1 Lakh per year EEE:1.5 Lakhs per year CE:8 Lakhs per year

IV. Providing Avenues for Employment and Entrepreneurship

Key Areas:

1. Placements 2.No.of Companies visiting the Campus for Placements 3.Incubation Centre 4. Center of Excellence

Key Areas	Present Status(2020-2021)	Proposal (2025-2026)
1. Placements	85% of the Students are placed	• 95% of the Students should be placed • 50% of the eligible Students should be able to secure high package placements with package greater than 5Lakhs • CSE: 50% • IT: 45% • ECE: 20% • EEE: 20% • ME and CE: 60% of the Students should get placed • Atleast 10% of the eligible Students in core branches should get high package placements.

2. No.of Companies conducting CRT Drives	60	80 reputed companies should visit the Campus for Campus Recruitment Drives.
3. Incubation Centre	Incubation center established	The no.of Start-ups in each Department should be greater than 2.
4. Center of Excellence	Dassualts 3D Systems Lab, Virtusa Centre of Excellence, Hexaware Centre of Excellence have been established	Each Department should have atleast one centre of Excellence.

V. Promoting Community Development by inculcating the sense of Social Responsibility

Key Areas:

1.Community Development Programmes 2.Application of Technology for societal needs

Key Areas	Present Status(2020-2021)	Proposal (2025-2026)
1. Community Development Programmes		
i. No. of Programmes for Community Development	51	• Minimum of 60 programmes per Year should be conducted
ii. % of Students participation for Community Development Programmes	75% of students are involving in Community Development Activities	• Atleast 85% of the Students should involve themselves in community Development Programmes
2. Application of Technology for Societal needs		
i. No. of Digital Literacy Drives	02	• Minimum of Four Digital Literacy drives per Year.

VI. Institutional Effectiveness through Internal Quality Assurance System

1. Collaborative Activities 2. NBA Score 3. NAAC Grade 4. NIRF Rank

Key Areas	Present Status(2020-2021)	Proposal (2025-2026)
1. Collaborative Activities	Research Paper Publications in Collaboration with Faculty of other organizations 70	• A minimum of 5 Collaborative Programmes with reputed Academic organizations or Industries should be taken up. • To publish 100 papers in collaboration with other Researchers. • To involve the Students in Student Exchange Programme atleast 4 Faculty should be deputed for Faculty Exchange Programme
2. NBA Score	CSE: 707 IT: 701 ECE: 698 EEE: 686 ME: 684 CE: 677	CSE: 750 IT: 750 ECE: 725 EEE: 725 ME: 700 CE: 700
3. NAAC	A+	To retain A+ Grade
4. NIRF Rank	201-250 Band	150-200 Band