SELF STUDY REPORT

FOR

1st CYCLE OF ACCREDITATION

PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE

MEDAVAKKAM-MAMBAKKAM MAIN ROAD ,PONMAR
600127
www.psvpec.in

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Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BANGALORE

January 2018

1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

The Prince Educational Society was founded by Dr.K.Vasudevan, M.A., B.Ed., Ph.D in 1978, with the vision *"Excellence in Education with Societal Commitment".* Prince Shri Venkateshwara Padmavathy Engineering College (PSVPEC) was started by The Prince Educational Society in 2001 and is situated in a picturesque environment at Ponmar, Chennai, Tamil Nadu. *Its vision is to make every student a successful professional and contribute for societal development.* The College has acquired recognition and public acknowledgement as one of the top-ranking institutions in the State.

Founder – Chairman Dr. K Vasudevan says,

"Education is simply the soul of a society as it passes from one generation to another"

The PSVPEC Engineering College has been achieving **Academic Excellence** for the past 15 years and has always been in the top 20 positions among all the Engineering colleges affiliated to Anna University. Our college secured 4th rank during April/May 2009 examinations conducted by the Anna University. We secured 8th place in 2011 and sustained to excel among the Top ten engineering colleges.

PSVPEC has been undertaking a lot of activities as a part of its Corporate (Institutional) social responsibility to provide services to the rural areas in and around the Institution, in collaboration with the Lions club of Velachery, Village Panchayats, Agriculture departments, Tagore Medical college, etc.

Vision

"To be a prominent institution for technical education and research to meet the global challenges and demand for the societal needs"

Mission

- To develop the needed resources and infrastructure and to establish a conducive ambience for the teaching -learning process
- To nurture in the students, professional and ethical values, and to instill in them a spirit of innovation and entrepreneurship.
- To encourage the students a desire for higher learning and research, to equip them to face the global challenges.
- To provide opportunities for students to get the needed additional skills to make them industry ready.
- To interact with industries and other organizations to facilitate transfer of knowledge and know- how.

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

- Committed management
- 17 years of standing
- Brand Name and most preferred institution
- Talented students
- Excellent Infrastructure
- Special status in higher education areas
- Retention of employees
- Conducive atmosphere to carryout research work
- Inspire students in entrepreneurship
- Financial assistance to needy students
- Mechanism for faculty and student participation
- campus wide implementation of Best practices

Institutional Weakness

- Limited academic freedom
- Reduced core placement due to mass recruitment by IT companies
- As a self financing college, faculty members face difficulty while seeking funds from Government funding agencies
- Lack of interest in self learning
- Impact of social media
- Lack of parents co-operation in feedback mechanism
- Government funding for renewable energy

Institutional Opportunity

- Freedom to introduce new methodolgies using CoE laboratories
- Value added courses to improve core knowledge,C,C++ courses for non computer students
- Scope of commercialization of research outcomes
- Training the students in the New technology areas of enchancing employability
- Organising FDP to meet the continuous training needs of HoD and Professors
- Establishing continuous interaction with industry for mutual benefits
- Scope for addition of energy saving electrical installation
- Enhanced community engagement

Institutional Challenge

- Regulation restrictions of the Parent university
- Training the faculty members in the latest technologies as per industry requirements

- Obtaining Funds from the Industries for research projects
- Rising costs of overheads and resources
- Stiff competetion among the studnets in placement.higher studies and research
- Balancing academic,administrative and research requirement by senior faculty members
- Maintaining the aspiration levels of students and faculty members

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

The college is affiliated to Anna University. The college has an effective quality management system for teaching, learning and supporting system. The curriculum and syllabi prescribed by the university are strictly adhered and implemented effectively. In addition, we have included value added courses for developing additional knowledge, skill and employability.

Knowledge component encompasses:

- Basic Knowledge in fundamentals of engineering
- Specialization in one's own area
- General knowledge in other areas
- Conflict and crisis management
- Managing change
- Critical thinking
- Decision making
- Self-awareness
- Coping with stress and emotion
- Project management
- Planning, conducting and managing effective meetings and discussions
- Application of knowledge- Understanding professional ethical values.

Ability

- To solve complex engineering problems
- Applying new technologies to design and fabricate through creative and innovative thinking
- Analyze and interpret data and design experiments to gain new data
- Have consideration for cost, benefits, safety, quality etc.
- Deliver with commitment on time
- Evaluate and manage risk factors involved
- All these abilities are evaluated periodically. The course contains training programmes from first year onwards.

Teaching-learning and Evaluation

- Transparent admission policies

- Recruitment of well qualified teachers as per procedure
- Preparation of lesson plans, Time Table and Academic calendar in advance and sharing with students.
- Supplementing classroom teaching through expert lectures, alumni interaction, seminars, workshops, mini-projects, Industrial visit, internship, training and e-courseware (NPTEL)
- Academic calendar and Feed back to ensure the quality
- Feedback helps to plan and execute systematic teaching-learning
- Designed structured-orientation programmes for the learner group
- Introduction of bridge courses, remedial classes, Coaching classes for slow learners.
- Student centric methods like participative learning, experiential learning, etc.
- Creative Learning Methodology, learning by doing mini projects
- Special provisions for advanced learners using research labs
- Funds for design and fabrication of working models as mini projects presentation of papers in seminar and conferences at national and international level
- Quality improvement of faculty by training and research programmes
- System for effective counseling
- Maintaining gender ratio besides reservation policies laid down by the Government
- Gender equity and admission opportunities for differently-abled students

Research, Innovations and Extension

- Identification of thrust areas for research
- Establishment incubation Centres
- Process of promoting the research culture among the faculty and students encouraged by the Management
- Organization of National level Conference and symposium every year for Faculty and intercollegiate students.
- Promoting research activities and providing financial assistance for registration, TA etc to participating faculty members
- 8 research projects worth of Rs 25 lakhs under execution
- 46 faculty members qualified with Ph.D.
- Around 400 faculty publications in the last four years and around 100 papers presented in the conference proceedings
- 20 MoUs signed for the benefit of the students
- Institute Social Responsibility activities carried out through NSS, and society oriented clubs.

Infrastructure and Learning Resources

The Institution's **25.2 acres (1,01,981 sq.m)** campus contains various buildings that offer students modern laboratory, library facilities, workshops, smart classrooms, computer laboratories and hostel facilities. The total built up area is about **26, 109 sq.m.**

Instructional area	14,536 sq.m

Administrative area	1,269 sq.m
Amenities area	3,874 sq.m
Circulation area	5,120 sq.m

The various features of the Institution corresponding to teaching – learning are:

- Well furnished and ventilated classrooms
- Smart class rooms
- Well equipped laboratories
- Research laboratories
- Excellence centers
- Well furnished and well stacked central library
- Department library
- Auditorium and Seminar halls
- Drawing halls
- Computer centre
- Air-conditioned ICT Enabled seminar halls, Board Rooms, GD & Interview Rooms and Open auditorium
- More than 700 Computers and with 40 Mbps Internet bandwidth
- Modern Gym facilities separately for girls and boys

- Availability of indoor and outdoor sports facilities
- Maintenance of campus facilities through qualified engineers and managers

Student Support and Progression

- Every year Rs.20 Lakhs financial assistance given by the Management to deserving students.
- 60 % of total students are benefitted by various scholarship schemes
- Recognition of College under Progressive Practices by AICTE and Anna University
- Ample funds allotted for sports activities every year
- More than 300 students have been placed in the current batch
- Alumni are actively involved in various activities
- Coaching for competitive examinations conducted every year
- .WiFi facility in hostels
- Publication of Department's Newsletter, College Magazine
- Sports and cultural days celebrated every year for the students
- Students are encouraged to participate in other college events

Governance, Leadership and Management

- All Committee meetings are conducted regularly.
- Cordial Relationship between the Management, faculty and stakeholders.
- Coordination of academic and administrative planning, and implementation have been established through ISO and IQAC guidelines.
- Transparency in the academic and administrative practices.
- Self-appraisal for faculty and students feedback systems.

- Monitoring mechanism through ISO audit.
- Feedback analysis, result analysis helps the Management to Correct Recruitment, FDP, empowering faculty member.
- Financial Management through Department budget and Institutional Budget.
- Regular Internal and external audits for income and expenditure.
- Institution has IQAC. Planning and implementation of all academic and administrative activities of IQAC made known to all through Academic Co-Ordinator, Department ISO co-ordinator.

Institutional Values and Best Practices

Core Values: Truth, Love and Discipline

The first move towards quality in higher education is the realization of the Vision, Mission and Goal statement of the Institution. Offering wide range of programmes in UG and PG itself vouch for the innovative approach adopted by the College. The College also takes serious steps in making the ambient competitive and innovative environment with its own benchmark. Serene Atmosphere maintained in the Campus provide stress-free life with modern amenities to the students and faculty members. Some of the highlights include:

- College adopts the environment-friendly practices
- Closer to 1500 trees planted inside the campus and landscape in 25.2 acres
- Environmental awareness given to students and other stakeholders
- Rain water harvesting, collection pits have been established
- Energy saving LED lights are installed.
- Scholarship to the needy students by the Management
- Establishment of video conferencing facilities
- Introduction of surveillance camera through CCTV

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	prince shri venkateshwara padmavathy engineering college
Address	medavakkam-mambakkam main road ,ponmar
City	Chennai
State	Tamil Nadu
Pin	600127
Website	www.psvpec.in

Contacts for Communication					
Designation	**Name**	**Telephone with STD Code**	**Mobile**	**Fax**	**Email**
Principal	Sounderrajan	044-674018101	9840100040	-	prince@psvpec.in
Associate Professor	Senthilkumar k k	044-67408102	9789832134	-	senthilkumar.k.k.ece@psvpec.in

Status of the Institution	
Institution Status	Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minroity institution	No

Establishment Details	
Date of establishment of the college	01-01-2001

University to which the college is affiliated/ or which governs the college (if it is a constituent college)		
State	**University name**	**Document**
Tamil Nadu	Anna University	[View Document](#)

Details of UGC recognition	
Under Section	**Date**
2f of UGC	
12B of UGC	

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	**Recognition/Approval details Institution/Department programme**	**Day,Month and year(dd-mm-yyyy)**	**Validity in months**	**Remarks**
AICTE	[View Document](#)	30-03-2017	12	Every year extension will be applied and approved

Details of autonomy	
Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?	Yes
If yes, has the College applied for availing the autonomous status?	No

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	**Address**	**Location***	**Campus Area in Acres**	**Built up Area in sq.mts.**
Main campus area	medavakkam-mambakkam main road ,ponmar	Rural	25.2	26109

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Computer Science And Engineering	48	HSE or Diploma	English	60	44
UG	BE,Mechanical Engineering	48	HSE or Diploma	English	120	80
UG	BTech,Information Technology	48	HSE or Diploma	English	60	27
UG	BE,Civil Engineering	48	HSE or Diploma	English	60	12
UG	BE,Electronics And Communication Engineering	48	HSE or Diploma	English	120	80
UG	BE,Electrical And Electronics Engineering	48	HSE or Diploma	English	60	22
PG	ME,Mechanical Engineering	24	BE or B.Tech	English	18	0
PG	ME,Electronics And Communication Engineering	24	BE or B.Tech	English	18	0
PG	MBA,Master Of Business Administration	24	UG	English	60	32
PG	MCA,Master Of Computer Applications	24	UG	English	60	12

Position Details of Faculty & Staff in the College

Teaching Faculty											
	Professor				**Associate Professor**				**Assistant Professor**			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				15				31				108
Recruited	15	0	0	15	19	12	0	31	25	83	0	108
Yet to Recruit				0				0				0
Sanctioned by the Management/Society or Other Authorized Bodies				15				31				108
Recruited	15	0	0	15	19	12	0	31	25	83	0	108
Yet to Recruit				0				0				0

Non-Teaching Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				35
Recruited	18	17	0	35
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				35
Recruited	18	17	0	35
Yet to Recruit				0

Technical Staff				
	Male	**Female**	**Others**	**Total**
Sanctioned by the UGC /University State Government				30
Recruited	15	12	0	27
Yet to Recruit				3
Sanctioned by the Management/Society or Other Authorized Bodies				30
Recruited	15	12	0	27
Yet to Recruit				3

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	**Professor**			**Associate Professor**			**Assistant Professor**			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	15	0	0	19	9	0	0	0	0	43
M.Phil.	0	0	0	0	1	0	0	28	0	29
PG	0	0	0	1	1	0	24	58	0	84

Temporary Teachers									
Highest Qualification	Professor			Associate Professor			Assistant Professor		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers									
Highest Qualification	Professor			Associate Professor			Assistant Professor		
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt.	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
PG	Male	17	0	0	0	17
	Female	27	0	0	0	27
	Others	0	0	0	0	0
UG	Male	162	6	0	0	168
	Female	88	9	0	0	97
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Programme		Year 1	Year 2	Year 3	Year 4
SC	Male	7	30	25	17
	Female	6	13	17	23
	Others	0	0	0	0
ST	Male	0	0	2	1
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	154	180	167	134
	Female	95	120	132	128
	Others	0	0	0	0
General	Male	16	24	43	29
	Female	28	24	34	36
	Others	0	0	0	0
Others	Male	0	0	0	0
	Female	0	0	0	0
	Others	0	0	0	0
Total		306	391	420	368

3. Extended Profile

3.1 Programme

Number of courses offered by the institution across all programs during the last five years

Response : 10

Number of self-financed Programmes offered by college

Response : 10

Number of new programmes introduced in the college during the last five years

Response : 0

3.2 Student

Number of students year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1441	1558	1594	1620	1709

Number of seats earmarked for reserved category as per GOI/State Govt rule year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
312	312	312	273	273

Number of outgoing / final year students year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
355	423	426	446	457

Total number of outgoing / final year students

Response : 2107

3.3 Academic

Number of teachers year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
150	146	142	130	126

Number of full time teachers year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
150	146	142	130	126

Number of sanctioned posts year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
150	146	142	130	126

Total experience of full-time teachers

Response : 1334.8

Number of teachers recognized as guides during the last five years

Response : 1

Number of full time teachers worked in the institution during the last 5 years

Response : 73

3.4 Institution

Total number of classrooms and seminar halls

Response : 44

Total Expenditure excluding salary year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
677.94	617.38	576.75	960.78	1052.61

Number of computers

Response : 706

Unit cost of education including the salary component(INR in Lakhs)

Response : 86844.08

Unit cost of education excluding the salary component(INR in Lakhs)

Response : 48751.24

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The institution ensures effective curriculum delivery through a well planned and documented process

Response:

The College is affiliated to Anna University. The College has an effective quality management system for teaching learning and supporting system and it is an ISO 9001:2015 certified institution. The curriculum and syllabi prescribed by the university are strictly adhered and implemented effectively. The College has also strategised ways and means to strengthen the teaching-learning process and to implement the curriculum statement based on student's needs.

For effective implementation of the curriculum, PSVPEC systematically designs and develops effective action plans. Based on the academic schedule published by the Anna University, an academic calendar is prepared before the beginning of the semester. Based on the academic calendar, an action plan for the semester is prepared and communicated to the faculty and students through the HoD concerned.

Details planned in the Academic Calendar

- Date of commencement of the class
- Internal Assessment Schedule
- Date of completion of syllabus
- Tentative Schedule of University Practical and Theory Exams
- Total number of working days
- Details of holidays

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

1.1.2 Number of certificate/diploma program introduced during the last five years

Response: 53

1.1.2.1 **Number of certificate/diploma programs introduced year wise during the last five years**

2016-17	2015-16	2014-15	2013-14	2012-13
22	30	1	0	0

File Description	Document
Minutes of relevant Academic Council/BOS meetings	[View Document]
Details of the certificate/Diploma programs	[View Document]
Any additional information	[View Document]

1.1.3 Percentage of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council during the last five years

Response: 2.25

1.1.3.1 Number of teachers participating in various bodies of the Institution, such as BoS and Academic Council year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	7	6	2	0

File Description	Document
Any additional information	[View Document]
Details of participation of teachers in various bodies	[View Document]

1.2 Academic Flexibility

1.2.1 Percentage of new courses introduced of the total number of courses across all programs offered during the last five years

Response: 20

1.2.1.1 How many new courses are introduced within the last five years

Response: 2

File Description	Document
Details of the new courses introduced	View Document
Minutes of relevant Academic Council/BOS meetings.	View Document

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/Elective course system has been implemented

Response: 100

1.2.2.1 Number of programs in which CBCS/ Elective course system implemented.

Response: 10

File Description	Document
Name of the programs in which CBCS is implemented	View Document

1.2.3 Average percentage of students enrolled in subject related Certificate/ Diploma programs/Add-on programs as against the total number of students during the last five years

Response: 47.32

1.2.3.1 Number of students enrolled in subject related Certificate or Diploma or Add-on programs year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
964	927	866	582	341

File Description	Document
Details of the students enrolled in Subjects related to certificate/Diploma/Add-on programs	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates cross- cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum

Response:

The cross–cutting issues like Gender, Environmental sustainability, Human Values and Professional Ethics

etc., find an ample space when it comes to applying them positively into the curriculum. We believe in maintaining healthy environment for all our students. The institution is adopting Anna University curriculum. The curriculum designed by the university itself does include many of these aspects such as the subjects namely Environmental Science and Engineering in second Year and Professional Ethics in the final year. The institution conducts Value added courses for students on Human values and Ethics, Environmental Sustainability, Gender Equity, etc. every year in addition to the curriculum.

List of Core Courses

S.no	Course code	Course	Branch / Sem
1	GE6351	Environmental Science & Engineering	CSE, EEE, CIVIL, IT, Sem
			ECE / 5 Se
2	GE6075	Professional Ethics	Mech / 5 Se
			Civil / 6 Se
			IT, CSE, ECE, EE
3	VAC2K13001	Human Values -Value education	Optional to all S
4	VAC2K12001	Environment and Sustainability-Waste management	Optional to all S
5	VAC2K17001	Gender Equity-Growth of gender in society and mass media	Optional to all S

The various committees in the Institution are also involved in organizing seminars, workshops and other activities related to gender issues, climate change, Environmental education, etc. The efforts made by the institution are:

Gender Equity

The Institution strives to promote equality of opportunity and treatment for all men and women working and studying at the College. The college aims to foster an environment in which women folks are treated equally and considered as a major asset for the Institution.

- ○ Anti-Ragging Cell and Grievance Redressal Cell are proactive in handling gender-based issues

- ○ Women Empowerment Committee plays a major role in empowering women through organizing

the following programs to motivate and cherish the role of Women:

1. Women mentoring program
2. Advancing women's research success program
3. Academic promotion information sessions for women
4. Gender equity and the future of design
5. International Women's day

Environment and Sustainability

Almost 90% of the streets, parking and pavements have been provided natural green cover to reduce the heat island effect. Rain water harvesting systems are installed and used to improve the groundwater. PSVPEC is sincerely considered about the dos and don'ts to the environment. We believe that eco-friendly campus is the best way to be conscious about the planet. The institution organises workshops on global warming, environmental sustainability, waste management, etc. We also educate the public (village people) about the importance of growing more trees, conservation of water, save electricity, etc through our extension activities. The students are involved in organising these activities and educating the people. This helps the students also to know the importance of sustainable environment.

The PSVPEC research team is motivated to focus on the biggest issues facing the planet, from changes in the atmosphere to the health of the soil beneath our feet. Faculty, programs and departments also regularly work with external entities from around the world to research and implement solutions to real-world problems.

File Description	Document
Any Additional Information	View Document

1.3.2 Number of valued added courses imparting transferable and life skills offered during the last five years

Response: 11

1.3.2.1 Number of value-added courses imparting transferable and life skills offered during the last five years

Response: 11

File Description	Document
Details of the value-added courses imparting transferable and life skills	View Document
Brochure or any other document relating to value added courses.	View Document

1.3.3 Percentage of students undertaking field projects / internships

Response: 53.81

1.3.3.1 Number of students undertaking field projects or internships

Response: 741

File Description	Document
Institutional data in prescribed format	View Document
List of students enrolled	View Document

1.4 Feedback System

1.4.1 Structured feedback on curriculum obtained from 1) Students 2) Teachers 3) Employers 4) Alumni 5) Parents For design and review of syllabus semester wise/ year wise
A.Any 4 of the above

B.Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: A.Any 4 of the above

File Description	Document
Any additional information	View Document
Action taken report of the Institution on feedback report as stated in the minutes of the Governing Council, Syndicate, Board of Management	View Document
URL for stakeholder feedback report	View Document

1.4.2 Feedback processes of the institution may be classified as follows:
A. Feedback collected, analysed and action taken and feedback available on website

B. Feedback collected, analysed and action has been taken

C. Feedback collected and analysed

D. Feedback collected

Response: A. Feedback collected, analysed and action taken and feedback available on website

File Description	Document
Any additional information	[View Document](#)
URL for feedback report	[View Document](#)

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Average percentage of students from other States and Countries during the last five years

Response: 2.44

2.1.1.1 Number of students from other states and countries year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
27	25	29	47	68

File Description	Document
List of students (other states and countries)	[View Document](#)
Institutional data in prescribed format	[View Document](#)

2.1.2 Average Enrollment percentage (Average of last five years)

Response: 65.53

2.1.2.1 Number of students admitted year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
306	391	420	368	453

2.1.2.2 Number of sanctioned seats year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
636	636	636	540	540

File Description	Document
Institutional data in prescribed format	[View Document](#)

2.1.3 Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years

Response: 87.34

2.1.3.1 Number of actual students admitted from the reserved categories year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
201	310	295	236	251

File Description	Document
Institutional data in prescribed format	[View Document](#)

2.2 Catering to Student Diversity

2.2.1 The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners

Response:

Counseling Cell:

- Academic counseling is given to all the students. Each class has been allotted with a year coordinator, class advisor and two to three mentors for the academic and personal guidance of the students.
- One mentor is deputed for every 20 students and they will continue to be the mentor for the particular student till he / she completes his/her course by monitoring the growth of the students with respect to their academic needs, giving the guidance for extra and co-curricular activities and providing general counseling etc.,
- Parent-teacher meeting is conducted every semester to convey the academic progress and to improve the parent teacher-student relationship.
- The mentor maintains the complete profile of the students to monitor the growth of the students and professional counseling is given to the needy students.

Academic advice to motivate the slow learners:

Slow learners are counseled and mentored by the mentors regularly. Measures such as extra attention in class, special coaching classes, parents teachers meeting etc. boosts their confidence to perform well in the academics.

Actions taken to motivate the average / above average students:

- The students who maintain consistently a good academic performance are encouraged and
- appreciated through cash prizes and awards during the college annual day.
- Good academic performers are motivated by the HoD, Year Coordinators and Class Advisors to obtain University ranks.

Grievance Redressal Cell:

- The cell functions under the guidance of the Principal in consultation with members of committee and legal experts.
- It focuses on addressing the basic problems of the students regarding academic and other amenities.

Career guidance

Career Guidance is provided to the students depending on their interest and career choice by the following:

- Training & Placement cell
- Higher education cell
- Innovation and Entrepreneurship Centre

Training & Placement

- Placement training programmes are conducted for the students right from the first year to improve

their communication skills, analytical skills, reasoning, programming skills, leadership qualities, confidence levels etc.

- Placement training programs on quantitative aptitude, verbal reasoning, analytical skills, soft skills, interview skills, group discussions etc. and on-line aptitude tests are conducted to help the students to get placements in reputed firms.
- The institution organizes various placement drives / campus recruitment at the campus by inviting reputed MNCs and national level industries to facilitate the students to find the right employment.

Higher Education cell

- The cell provides guidance to the students who aspire for higher education through seminars and presentations by technical experts
- Conducts training for GATE / GRE / TOEFL / CAT / GMAT etc.
- Conducts awareness programmes on "UPSC examinations"

IEDC

- Organizes entrepreneurship awareness camps and entrepreneurship development programmes for aspiring entrepreneurs.
- Motivates and invites innovative projects for funding to design and develop prototypes.
- Facilitate to apply for patent.
- Through the concerted efforts of IEDC, many students have shown interest to become entrepreneurs.

File Description	Document
Any additional information	[View Document]

2.2.2 Student - Full time teacher ratio

Response: 8.83

File Description	Document
Institutional data in prescribed format	[View Document]

2.2.3 Percentage of differently abled students (Divyangjan) on rolls

Response: 0.15

2.2.3.1 Number of differently abled students on rolls

Response: 2

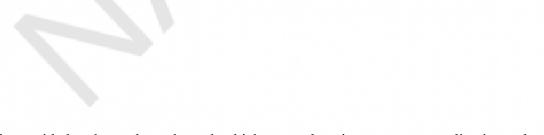| File Description	Document
Institutional data in prescribed format	[View Document](#)
List of students(differently abled)	[View Document](#)
Any additional information	[View Document](#)

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Response:

- Eminent personalities from industries and academia are invited regularly through IEDC, Alumni association, department associations and this provides a learning platform for students for effective knowledge sharing and knowledge gain.
- Our institute has signed MoUs with different companies in different regions of India for enhancement of student learning activity to enhance knowledge creation and application through mini projects and certifications.
- The institution supports student-centric learning through its efforts at creating a learning environment which allows students to acquire interpersonal communication skills, problem solving and knowledge management skills, critical thinking, leadership skills, team work and group interactions, which enable the students for lifelong learning.
- Appropriate Value Added Courses are initiated and developed by the respective Department and Training and Placement Cell to enhance the skill set of industry ready graduates.
- UG students Project dissertation are available in the library
- The students can access the reference books and journals during the library hour. Students can use the library resources for their assignments, mini projects, innovative projects, paper presentations etc.
- Library is stacked with books on placements, interview skills and aptitude which help in placement preparations.
- Books on various competitive examinations such as GATE, IES, UPSC, GRE, TOEFL, IELTS, GMAT, CAT etc helps students aspiring for higher studies.
- Anna university question papers are available in the library helps the students during their semester examinations.
- Case studies and assignments given periodically help students to think and analyze problems and to solve them.
- Students are also motivated to go for summer training, internships (or implant) in the leading industries and research institutes which provide an insight into real life challenges and operational difficulties in industries.
- The institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators
- The use of modern multimedia teaching aids like LCD projectors, internet enabled computer systems, use of working models, charts and demonstration experiments
- All the students are encouraged to get certified by MOOC courses such as NPTEL, etc. and on-line courses right from their first year.

- To enable the use of virtual laboratories / e-learning, students are provided with high speed internet access.
- Use of software such as Spoken Tutorial (an Audio-Video based teaching tool) Innovative teaching pedagogies such as the focused group discussions, debates and presentations are adopted to enhance our academic quality.
- State-of- the- art language laboratory with software enables the students to be proficient in linguistic and communication skills.
- Detailed course materials, lesson plans¸ class notes, question banks, laboratory manuals, model question papers are prepared by the faculty and are made available to the students.
-

  Digital Library is provided to the students through which open education resources, on-line journals are accessed.
- Apart from the Central Library, each department is equipped with a separate library with reference books in their respective core areas.
- All the laboratories in each department have latest equipments meeting the requirements as per Anna University Syllabus.

File Description	Document
Any additional information	[View Document](#)

2.3.2 Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.

Response: 76.92

2.3.2.1 Number of teachers using ICT

Response: 120

File Description	Document
List of teachers (using ICT for teaching)	View Document
Provide link for webpage describing the " LMS/ Academic management system"	View Document

2.3.3 Ratio of students to mentor for academic and stress related issues

Response: 8.83

2.3.3.1 Number of mentors

Response: 156

File Description	Document
Year wise list of number of students, full time teachers and students to mentor ratio	View Document

2.3.4 Innovation and creativity in teaching-learning

Response:

PSVPEC seeks to explore design thinking as a new model of learning used in classroom which benefits both students and staff. It is an approach to learning, that focuses on developing students creative confidence through hands-on projects that focus on empathy, promoting a bias toward action, encouraging ideation and fostering active problem-solving – skills and competencies. The cultivation of a broader set of skills and dispositions beyond core content knowledge is essential and thus established in our institution through innovation and creativity. PSVPEC provides academic and social environments that favor the creativity of the human potential. Creativity and innovation cannot be taught, so PSVPEC fosters it through a systematic manner as follows:

- **Creative Teaching**: Faculty members use working models, charts, PPTs, videos and animations to present the important / difficult theoretical concepts that will excite the young minds, capture their interest, develop better attention and make them strong in fundamentals.
- Guest lectures are arranged to encourage students to interact with eminent and experienced resource personnel from the industry to improve their technical knowledge and to know the latest trends in the industry.
- Students are encouraged to participate in technical competitions conducted by various MNC's like TCS (code-vita, engiNX, game on, testimony) to make them industry ready
- Tutorial classes are allotted in the time table itself for problem oriented subjects where the faculty

member prepares a set of questions for small groups of the students which enable interactive / peer learning.

- **Audio & Video Tools:** Incorporating audio-visual digital content with 3D/ 2D for self learning & teaching aids to enhance the learning experience. Supplementing textbooks with models and pictorial material are provided. Using info graphics or other mind mapping and brain mapping tools that will help the students to thrive and grow. These methods will not only develop the ability of students to listen, but will also help them to understand the concepts better and trigger Higher Order Thinking (HOT) skills.
- **"Real-World" Learning:** Infusing real world experiences into instructions that makes teaching moments fresh and enrich classroom learning. Relating and demonstrating through real life situations, makes the material easy to understand and easy to learn. It sparks the interest and let the students to excite and involve.
- **"e- learning":** The institution is a local chapter for NPTEL on-line courses and all the students are motivated to get certified by NPTEL on-line courses to improve their knowledge in the relevant streams by independent self-learning library for updating their skills and innovations in science / engineering / technology.
- The students are motivated to pursue path breaking approach in streamlining the curriculum towards the industrial requirements.
- **Classes outside the Classroom:** Field visits, surveys, demonstrations, implant training, paper presentations, in-house projects etc., effectively supplement the class room learning.
- Industrial visits are arranged for students by the departments to enhance their practical knowledge.
- The second and third year students are motivated to undergo implant trainings in reputed industries.
- **Mind- mapping:** Mind maps were developed as a way of helping students make notes that used only key words and images that explain concepts in an innovative way. They are much quicker to make and much easier to remember and review because of their visual quality. Mind Maps can also be effective mnemonics and remembering their shape and structure can provide the cues necessary to remember the information within it. The key is to build up mind maps that make the most of these things building on our own creativity, thinking and cross linking between ideas that exist in our own minds.
- **Work Together for brainstorming:** The end result of collaborative efforts is always immense. To share their views on improving innovative and creative methods, many of them come up with interesting strategies. So, collaborate and introduce innovative teaching methods.
- All the departments have students associations through which they organize various programmes to develop organizing and leadership qualities of the students.
- The students are guided and motivated to participate in technical events conducted by reputed institutions such as Anna University and affiliated institutions.
- **Welcome New Ideas**: An open- minded attitude can help in innovating new teaching methods. The R&D department motivates the students to do innovative and socially relevant projects and subsequently patent them.
- IEDC invites innovative project proposals and sponsors few projects based on the merit/ innovativeness / social relevance.
- Eminent personalities from industries and academia are invited regularly through IEDC, Alumni association, department associations and this provides a learning platform for students for effective knowledge sharing and knowledge gain.
- Case studies provide opportunity to enhance the reading comprehension skills and problem solving

skills.

File Description	Document
Any additional information	[View Document](#)

2.4 Teacher Profile and Quality

2.4.1 Average percentage of full time teachers against sanctioned posts during the last five years

Response: 100

File Description	Document
Year wise full time teachers and sanctioned posts for 5 years	[View Document](#)
Year wise full time teachers and sanctioned posts for 5 years	[View Document](#)

2.4.2 Average percentage of full time teachers with Ph.D. during the last five years

Response: 20.36

2.4.2.1 Number of full time teachers with Ph.D. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
36	30	28	24	24

File Description	Document
List of number of full time teachers with PhD and number of full time teachers for 5 years	[View Document](#)

2.4.3 Teaching experience of full time teachers in number of years

Response: 8.56

File Description	Document
List of Teachers including their PAN, designation,dept and experience details	[View Document](#)

2.4.4 Average percentage of full time teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years

Response: 2.17

2.4.4.1 Number of full time teachers receiving awards from state /national /international level from Government recognised bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	3	3	3	3

File Description	Document
Institutional data in prescribed format	[View Document](#)
e-copies of award letters (scanned or soft copy)	[View Document](#)

2.4.5 Average percentage of full time teachers from other States against sanctioned posts during the last five years

Response: 9.81

2.4.5.1 Number of full time teachers from other states year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2	11	16	18	19

File Description	Document
List of full time teachers from other state and state from which qualifying degree was obtained	[View Document](#)

2.5 Evaluation Process and Reforms

2.5.1 Reforms in Continuous Internal Evaluation(CIE) system at the institutional level

Response:

The institution under the affiliation of Anna University, Chennai follows the evaluation process as per the university guidelines. The process is transparent and is communicated to the students, faculty and parents by structured mechanisms.

- The evaluation process includes attendance stipulations, internal assessment marks, and pattern of end semester examinations. These are displayed on the notice board.
- During Parents Teachers Meeting, parents are informed about the student's performance and attendance. They are also informed about the Anna University web portal, revaluation and review procedures.
- Induction day for freshers serves as the best platform to communicate the process of evaluation to all the parents, staff and the students and the need for strict adherence to the stipulations.
- Regular interactions of HoDs and faculty with the students during department meetings, class committee meetings and counselling sessions also are used for the purpose.
- Student mentor regularly examines the attendance, performance of the student in class tests and internal tests. The mentor also gets feedback of the student from other faculties who handle subjects for the student. Submissions of assignments, his/her behaviour are also monitored.
- Regular counselling is given to the students and their progress is recorded. An ATTENDANCE AND ASSESSMENT RECORD for each student is maintained and all his details including the attendance, his/her performance in class tests, internal assessments and en semester results along with their Cumulative Grade Point Aggregate (CGPA) are recorded. The log book is shown to the parents during parent teacher meeting.
- Behaviour in the laboratories is ensured by monitoring the timely completion of experiments, timely submission of record books and performance in Viva Voce.
- Serious behavioural issues are thoroughly enquired by a committee comprising a senior professor, along with Principal and Advisors and appropriate actions are taken. The parents are made aware of it through telephonic conversations and in-person enquiry sessions.
- At the beginning of each semester, HoDs convene staff meeting to disseminate information on evaluation / assessment and changes, if any.
- At the beginning of each semester the staff HoDS convenes staff meeting regarding the curriculum. Lesson plan, study material, and laboratory manuals are prepared by the staff handling the corresponding subjects and the same are given to the students before the beginning of each semester.
- Slow Learners are identified in each class and special attention is given to them. Corrective Action and Preventive Action (CAPA) is initiated through remedial classes and retests for the slow learners. These are conducted to further improve their performance .Notes are handed to them for easy learning. Learner's progress is discussed with their parents for academic improvement.
- Advanced learners are also identified in each class and their performance is monitored regularly. Any deviation in their performance is noted immediately and they are advised accordingly. Additional reference books are given for further reference from department library to advanced learners. They are encouraged to publish papers in journals, take part in technical symposiums and do mini projects. The institution organizes value added courses and training program for the students.
- The marks awarded to the students in the continuous assessment tests and the attendance percentages is communicated to parents and are also accessible through the website of the affiliating university. (www.coe1.annauniv.edu).
- Any change in the schemes of evaluation, updates on curriculum revision, alterations in the question paper patterns are conveyed to the students and the faculties through the circulars received from the University and the same is displayed in the University web portal (www.coe1.annauniv.edu).
- Revaluation and review procedures of Anna University are communicated to the students through circulars.

File Description	Document
Any additional information	View Document

2.5.2 Mechanism of internal assessment is transparent and robust in terms of frequency and variety

Response:

To ensure rigor and transparency in the internal assessment, the institution has a separate Internal Examination Cell comprising of a senior faculty and a team of teaching and non-teaching staff which takes care of the smooth conduct of internal assessment tests.

The institution strictly follows the evaluation procedure prescribed by Anna University, the affiliating university. The evaluation weightage is 20% for continuous assessment tests and 80% for the end-semester examinations.

Reforms introduced by the institution:

- The academic calendar for each semester is prepared in line with the University schedule of events which provides the information on scheduled timetable for internal assessments, model examinations. A tentative schedule of University practical examinations are given, which helps the students to plan their course of action.
- The question paper patterns for the internal examinations are standardized by the institution, similar to the University end semester question paper containing Part A, Part B and Part C questions, as applicable.
- Internal assessment I covers Unit I and II, Internal assessment II covers Unit III and IV and model examination covers the entire syllabus of a particular course.
- The subject handling faculty prepares the question paper for the internal assessment with utmost care.
- The College Examination Cell holds the onus for all exam related activities and through coordinated efforts of all the stakeholders the entire evaluation system is smoothly managed.
- Student marks are intimated to the students immediately after the completion of assessment and the same is communicated to their parents.
- Retests and remedial classes are conducted for students who fail to secure minimum percentage marks and for the students who wish to improve their internal marks, with a special timetable framed for the purpose.
- The academic performance and attendance are maintained and recorded in each department.
- The students answer scripts are given to the students during parents teacher meet.
- An exam cell is constituted with the senior professor as the Convenor and department representatives and is bestowed with a responsibility of conducting all the examination related activities such as
    - Ensuring the timely receipt of question bank for the conduct of Internal Assessment tests and Model exam.
    - Hall arrangement for the conduct of exams.
    - Invigilation duty allotment to the faculty.
    - Question paper dispatch to the examination halls.
    - Dispatch of answer scripts to the faculty concerned.

- A separate team in exam cell works for the scheduling of retests, informing the same to the students, arranging question papers for retest, conducting retests as per schedule and dispatch of answer sheets to the respective staff.
- The answer scripts are evaluated by exchanging the answer scripts among sections. In the case of model examination scripts are valued by different faculties who have handled the subject.
- The institution creates awareness to the students as well as parents on the procedures for revaluation through circulars, class teachers and class counsellors

Internal marks:

As an affiliated institution, we strictly adhere to the rules mandated by the university and the internal marks are based on the marks secured in the internal assessment tests and model examination (as per regulations 2008 and 2013 of the affiliating University) which is entered in the university web portal as per schedule.

File Description	Document
Any additional information	[View Document](#)

2.5.3 Mechanism to deal with examination related grievances is transparent, time-bound and efficient

Response:

Grievance redressal at the institutional level

The students are the main stakeholders in our institution, and it's our endeavour to make all efforts to ensure transparency in all the activities at different stages.

- There is Grievance Redressal Committee at the institution level to deal with the grievances of the students such as academic, non-academic, grievance related to assessment, grievance related to attendance, grievance regarding conducting of Examinations.
- There is a grievance/complaint box placed in the administration block for the students to drop their grievances in case if they are unwilling to appear in person to address their grievances.

- Examination related grievances are handled by the student mentor to make it time bound& transparent. Answer scripts are distributed to the students as regard to total checking and for clarifications if any.
- Grievance related to the valuation of internal assessment paper is taken care of by the student mentor. The paper is revaluated by an experienced staff who had handled the subjects and has in depth knowledge of the subject. The issue is sorted at the earliest for the updatingof internal marks.
- Student approaches his mentor for the clarifications related to internal marks. Student issue related to the above will be perceived by the mentor immediately.Student mentor cross checks the same issue with the department. Issues will be identified and sorted.

- Examination related grievances also include: Proper arrangement of examination halls, seating

arrangements, dispatch of question paper at the right time, conducting exams at the scheduled date and time.

Grievance redressal at the university level (Academics)

- The University provides the students with an option of obtaining photocopy of their answer sheets after the declaration of results.
- The student can review his/her answer sheets and apply for re-evaluation on the recommendation of the subject handling faculty.
- If a student is not satisfied with revaluation results, he/she can go for a challenge with the recommendation by the head of the department wherein his/her answer sheets will be evaluated once again.
- Challenge evaluation fee is reimbursed by the University to the students in case of improvement in the grades in comparison to the first evaluation.
- Other type of grievances like data missing in the question papers, question asked from outside the syllabus, question paper being tough etc. are communicated to the controller of examinations through the web portal on the same day of the conduct of exam by the faculty concerned through the HoDs concerned and the Principal for necessary action.

File Description	Document
Any additional information	[View Document](#)

2.5.4 The institution adheres to the academic calendar for the conduct of CIE

Response:

- The institution strictly adheres to the academic schedule followed by Anna University, Chennai.
- A committee of academic calendar is comprised by the institution. The committee consisting of Principal and Head of Departments prepare the academic calendar well in advance before the commencement of each semester. It is circulated to the staff and students to plan their course of action accordinglywell in advance.
- The calendar outlines the internal examination schedule, model practicals, tentative dates for university practical and theory examination schedule.
- The calendar also has the details of government holidays. List of holidays help the hostellers to plan their visit to native places.
- Reopening dates for the students, year wise are included.
- Induction day for fresher is also included in calendar.
- The calendar also outlines the schedule of technical events conducted in the institution like department wise technical Symposiums, workshops for both student and staff, value added course for the students, guest lectures, vocational educational training for both students of the institution and from other institutions and placement training.
- The calendar outlines the schedule of sports activities both at college and intercollegiate level.
- Conduct of nontechnical events like College day, Graduation day, Sports day, Farewell day

* celebrations for final year and Pongal celebrations are also enlisted in the calendar.
* Schedule of industrial visits for the students is also included in the calendar.
* Tentative dates for parent teacher meeting are also included, which helps the parents who come from distant places to make arrangements accordingly.
* Schedule for NSS related activities are also planned.
* The calendar thus helps in the smooth conduction of classes and the completion of the syllabus in stipulated time. This also helps the conduct of revision classes and special training for slow learners.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

2.6 Student Performance and Learning Outcomes

2.6.1 Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are stated and displayed on website and communicated to teachers and students

Response:

* Our institution has established an effective communication system for the flow of information between the staff members to students.
* Each staff is given an **ATTENDANCE AND ASSESSMENT RECORD (AAR)** in which the staff specifies the course objective as specified by the university. **AAR** is the means of communication of the mechanism to the staff.
* The communication includes

  ○ Intimation of subject allocation,
  ○ Syllabus - the staff specifies course objective, course outcome and program educational objective for each course based on the syllabus and relates the program outcomes with the index of program outcomes.
  ○ The index of program outcomes include

1. Ability to apply knowledge of mathematics, science and engineering.
2. Ability to design and conduct experiments, as well as to analyze and interpret data.
3. Ability to design a system, computer or process to meet desired need within realistic constraints such as economic environmental, social, political, ethical, health and safety, manufacturability and sustainability.
4. Ability to function on multidisciplinary teams
5. Ability to identify, formulate and solve engineering problems.
6. Understanding of professional and ethical responsibility.
7. Ability to communicate effectively.
8. Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.

9. Recognition of the need for, and an ability to engage in life-long learning.
10. Knowledge of contemporary issues.
11. Ability to use the techniques, skills and modern engineering tools necessary for engineering practice.

- A measure of contribution of the above indices of the course objective is done. The mechanism also includes design and development of lecture notes. Inputs for the design is based on the

  - Certified copy of Anna University syllabus provide by HOD
  - Text/Reference books
  - Previous years University question papers.
  - Lesson plan

- Output of the design include lecture notes, soft copy , OHP-LCD presentation which

  - are in accordance with the prescribed syllabus
  - are based on text/reference books
  - take into account previous university questions
  - are adequate and appropriate to the requirements of the syllabus and the student.

- The above are reviewed, verified and validated by the HOD.

Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed on website

- The staff forms the means of communication of the mechanism to the students. Students' attendance and performance in internal assessments are also noted in noted in the record.
- An ATTENDANCE AND ASSESSMENT RECORD for each student is maintained and all his details including the attendance, his/her performance in class tests, internal assessments and end semester results along with their Cumulative Grade Point Aggregate (CGPA) are recorded. The log book is shown to the parents during parent teacher meeting.
- Submissions of assignments, his/her behavior are also monitored.

File Description	Document
COs for all courses (exemplars from Glossary)	[View Document](#)
Any additional information	[View Document](#)

2.6.2 Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution

Response:

PSVPEC is affiliated to Anna University and follows the syllabus for various engineering courses provided by Anna University. All courses/subjects have its own objectives and methodology to achieve the course

outcomes. PSVPEC is committed to the course outcomes prescribed by Anna university.

Course Outcomes (COs) relate the skills, knowledge, and behaviour that students acquire in their matriculation through the course.

Program Educational Objectives (PEO) describes the career goals and professional success of the programme.

PSVPEC established **Programme Outcomes (PO)** to relate with the skills, knowledge, and attitude that the student acquires at the end of the program.

Course Exit Survey Course Exit Survey is collected at the end of the semester for each course. The students give feedback, evaluating themselves on the attainment of course outcomes.

PSVPEC ensures that the Programme Educational Objectives (PEOs) and Programme Outcomes (POs) including Course Outcomes (COs) are listed and communicated to all students by including them in the course files and lab manuals.

The process of attainment of COs, POs and PEOs starts from writing appropriate COs for each course in the four-year engineering degree program. The course outcomes are written by the respective faculty member provided by Anna University. Then, a correlation is established between COs and POs and COs and PEOs on the scale of 0 to 3, 0 being no contribution, 1 being marginal contribution, 2 being average contribution and 3 being strong contribution.

Direct Assessment is based on Assignment, Internal Assessments, End semester examination and Indirect Assessment is based on course exit survey. A 5x11 mapping matrix of COs-POs and 5x3 mapping matrix of COs-PEOs is prepared in this regard for all courses in the program.

File Description	Document
Any additional information	View Document

2.6.3 Average pass percentage of Students

Response: 96.87

2.6.3.1 Total number of final year students who passed the university examination

Response: 340

2.6.3.2 Total number of final year students who appeared for the examination

Response: 351

File Description	Document
Institutional data in prescribed format	<u>View Document</u>

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response:

File Description	Document
Database of all currently enrolled students	<u>View Document</u>

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry ,corporate houses, international bodies, endowment, chairs in the institution during the last five years

Response: 23.8

3.1.1.1 Total Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs in the institution year wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
23.80	0	0	0	0

File Description	Document
List of project and grant details	[View Document]
e-copies of the grant award letters for research projects sponsored by non-government	[View Document]

3.1.2 Percentage of teachers recognised as research guides at present

Response: 0

3.1.2.1 Number of teachers recognised as research guides

File Description	Document
Institutional data in prescribed format	[View Document]

3.1.3 Average number of research projects per teacher funded by government and non government agencies during the last five years

Response: 0.11

3.1.3.1 Number of research projects funded by government and non-government agencies during the last five years

Response: 8

File Description	Document
Supporting document from Funding Agency	View Document
List of research projects and funding details	View Document
Funding agency website URL	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations including incubation centre and other initiatives for creation and transfer of knowledge

Response:

Prince Shri Venkateshwara Padmavathy Engineering College Innovation and Incubation Centre (PSVPEC-I2C) is functioning with effect from 29th September 2015. This Center helps students in promoting creativity and entrepreneurship. It also helps students in transforming their research findings into useful products for the society. This motivates the students to take up research work during their academics in parallel. Many MOU's have been signed by our institution with reputed companies who help students in their respective areas of interest. PSVPEC-I2C comes as a boon to faculty who are interested in their research can avail of funding and mentorship. This Center functions effectively and students showcase their products to companies in special review meetings and are awarded internship in the companies. Some of the products developed by students are given below. There are many innovative products developed in the incubation center. We have quoted only a few at the end of this document for reference.

Students from each and every department benefit from I2C. The Center is fully equipped with the following features:

- Sufficient personal computers with fast computing capacity.
- High speed LAN connection.
- Licensed software of all departments (MATLAB, Eclipse IDE, Catia, Pro-E, Cadence Tanner, PSPICE).
- Hardware kits for embedded/microcontroller based research.
- Audio-Video projection/display facility.
- Printer and other basic facilities conducive for conducting quality research.

The Center has a work plan for students starting from second semester. The following is the schedule:

S No	Year	Semester	Activity based learning plan in I2C
1	II	III	• Inculcating the basic ideas of research and product development. • Encouraging them to pursue certificate courses to gain subject kno
2	II	IV	• Conduct coding workshops/seminars to enhance their coding know
3	III	V	• Discovering their area of interest and assigning them a problem in
4	III	VI	problem should be a solvable padmuct used everywhere. Continuou mentors for students in their projects.
5	IV	VII	• Mini Project/Main Project in related areas chosen in their previous
6	IV	VIII	successful product is built.

Projects designed and promoted from PSVPEC-I2C

1. Design of Green Car	The students have designed their own applied for patent adding some ad engine with pneumatic engine will red
1. Design of Air Cooler	As most of us consider Air cooler redesigned the air cooler model such with AC, it cools the room fast, uses friendly
1. Design of Aero Bike	The bike aims at maximizing fuel eff idling. One of the core objectives c weight reduction through wise choice level to the system level and thereby a litre of fuel.
1. Bike for Disabled	The vehicle allows the physically ch alone. The steering unit can be transfe

Other prominent projects designed by the center include the following:

1. Humanoid Bike
2. Stair-Climbing chair for the disabled
3. Automated Seeding machine
4. Railway Platform Crossing for the disabled

The Center conducts workshops/seminars by expert faculty in recent trends of technology so that they can be prepared to guide the students. This ensures that there is no technology gap between demand and supply. Every week two periods are allotted for I2C where students and faculty can come to the center, brain storm and take their projects further. They do certificate courses, coding, unit testing, and regression testing to ensure their product is fool proof. Once the product is ready for commercialization, the product catalogue is sent to all related companies working in that field. Many companies respond and ask the team for presentation and subsequent evaluation of the product. Around 80% of the final year students pursue their projects in-house with extensive help rendered by I2C team of faculty. Rigorous reviews are conducted as a part of activity to ensure Quality in every activity done. The developed products through their projects are announced to the external world by publishing their work in reputed journals that focus on quality research. Many papers in this regard have been published in high quality journals. Students passing out of our college don't wait for employees to pick them for a job opportunity but they in turn become entrepreneurs due to sufficient hands-on knowledge gained from I2C. They generate and give jobs to many.

File Description	Document
Any additional information	[View Document](#)

3.2.2 Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the last five years

Response: 8

3.2.2.1 Total number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2	2	2	2	0

File Description	Document
List of workshops/seminars during the last 5 years	[View Document](#)
Report of the event	[View Document](#)

3.3 Research Publications and Awards

3.3.1 The institution has a stated Code of Ethics to check malpractices and plagiarism in Research

Response: Yes

File Description	Document
Any additional information	[View Document](#)
Institutional data in prescribed format	[View Document](#)

3.3.2 The institution provides incentives to teachers who receive state, national and international recognition/awards

Response: Yes

File Description	Document
List of Awardees and Award details	[View Document](#)
e- copies of the letters of awards	[View Document](#)

3.3.3 Number of Ph.D.s awarded per teacher during the last five years

Response: 0

3.3.3.1 How many Ph.Ds awarded within last five years

File Description	Document
List of PhD scholars and their details like name of the guide , title of thesis, year of award etc	[View Document](#)

3.3.4 Number of research papers per teacher in the Journals notified on UGC website during the last five years

Response: 0.46

3.3.4.1 Number of research papers in the Journals notified on UGC website during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
99	57	65	35	66

File Description	Document
List of research papers by title, author, department, name and year of publication	[View Document](#)

3.3.5 Number of books and chapters in edited volumes/books published and papers in national/international conference proceedings per teacher during the last five years

Response: 0.3

3.3.5.1 Total number of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
99	58	19	17	24

File Description	Document
List books and chapters in edited volumes / books published	[View Document](#)

3.4 Extension Activities

3.4.1 Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years

Response:

The Institution makes active interest in the implementation extension activities. The Institution makes efforts in grooming students with Social Responsibility through **NSS, YRC and Rotaract clubs**. PSVPEC students take active part in the social activities and imbibe social responsibility, acquire team spirt and leader ship qualities so that, they serve the society and the nation with harmony.

Village adoption: Having an objective to serve the grass roots, the institution has adopted Polachery and Pudupakkam villages. Major activities are carried out for the benefits of the adopted village community. The NSS wing of the college conducts programmes to educate the villagers on hygiene & sanitation, literacy, women and their status in the society – how to improve it, the employment opportunities available for the youth of the village, protected water supply system, ecology, importance of girls education, awareness on Malaria, Dengue, AIDS etc. to the adopted villages.

Blood donation camps: Every year blood donation camps are organized in association with Lions Club, Velachery, Chennai. A Blood donor club is also associated with the NSS unit and a database of donors is maintained to donate blood at the time of need and emergency. Donation Camp is carried out twice every year and is one of the most important social activities carried out by the NSS unit of PSVPEC.

Blood Donation Camp was organized by the NSS Unit of PSVPEC through the Lions Club of Madras on 27th July, 2013 as a part of the NSS Camp. Blood Donation Camp is carried out twice every year and is one of the most important social activities carried out by the NSS unit of PSVPEC. This time 250 units of blood were donated by the donation camp.

Malaria and Dengue awareness camps: These awareness camps are organized through the PSVPEC Rotaract club for the nearby villages and also to the villages adopted by the Institution. First the students take orientation about the disease, its causes, symptoms, prevention and cure from Epidemic control centre, Tagore Medical College and then the camps are organized for the village community.

Road safety program: The NSS volunteers of College conducted various road safety programs like: importance of "use of helmets", "wear seat belts", and "safe driving" on roads.

Health camps: The institute's YRC organizes various programs like free healthcare camps and dental camps in collaboration with Tagore Medical College and eye camps in collaboration with Vasan eyecare centre for the nearby villages.

Planting of tree saplings: The Go Green club has initiated planting of hundreds of trees in nearby villages. Education program on waste management to school children are also organized through the Go Green club.

Special Programs: Awareness program was organized on Recycle and Reuse of agricultural and construction waste for the villagers in Polachery village. Also the agricultural waste was collected from the nearby villages and were used for research purposes. The wastes collected are coconut shells, groundnut shells, rise husk, etc. Such need based special programs are organized through the Institute's YRC society.

Orphanages visit: Students visit orphanages and have contributed through kindness and service for the betterment feeling of the orphanage people.

Clean campaign: The NSS unit of PSVPEC is regularly involved in clean campaigns in villages and temples in the nearby areas. A health awareness rally was organised on 23.9.2017 through PSVPEC NSS unit and Chengelpattu Municipality. Cleaning activities were carried out in Chengelpattu Railway station under "**Swachhata Hi Sewa**" campaign.

File Description	Document
Any additional information	

3.4.2 Number of awards and recognition received for extension activities from Government /recognised bodies during the last five years

Response: 14

3.4.2.1 Total number of awards and recognition received for extension activities from Government /recognised bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	3	2	3	3

File Description	Document
Number of awards for extension activities in last 5 years	
e-copy of the award letters	

3.4.3 Number of extension and outreach programs conducted in collaboration with industry, community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc., during the last five years

Response: 22

3.4.3.1 Number of extension and outreach programs conducted in collaboration with industry,community and Non-Government Organisations through NSS/NCC/Red cross/YRC etc.,year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
7	4	4	4	3

File Description	Document
Number of extension and outreach programs conducted with industry,community etc for the last five years	
Reports of the event organized	

3.4.4 Average percentage of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years

Response: 45.62

3.4.4.1 Total number of students participating in extension activities with Government Organisations, Non-Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1180	710	550	885	197

File Description	Document
Average percentage of students participating in extension activities with Govt. or NGO etc.	[View Document]()
Report of the event	[View Document]()

3.5 Collaboration

3.5.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc during the last five years

Response: 16

3.5.1.1 Number of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research, etc year-wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	1	7	5	0

File Description	Document
Number of Collaborative activities for research, faculty etc.	[View Document]()
Copies of collaboration	[View Document]()
Any additional information	[View Document]()

3.5.2 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)

Response: 9

3.5.2.1 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2	1	2	4	0

File Description	Document
Details of functional MoUs with institutions of national, international importance,other universities etc. during the last five years	[View Document](#)
e-copies of the MoUs with institution/ industry/ corporate house	[View Document](#)
Any additional information	[View Document](#)

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.

Response:

The Institution's **25.2 acres (1,01,981 sq.m)** campus contains various buildings that offer students modern laboratory, library facilities, workshops, smart classrooms, computer laboratories and hostel facilities. The total built up area is about **26, 109 sq.m.**

	14,536 sq.m
Instructional area	
Administrative area	1,269 sq.m
Amenities area	3,874 sq.m
Circulation area	5,120 sq.m

The Institution is committed to providing students with specialized facilities and resources that promote hands-on learning. The Institution's unique classroom settings and resources enable students to experience authentic teaching and learning environments. The Institution believes chalk and talk to be the best effective method of teaching, even though it has made a variety of technological advancements for the students to greatly enhance the student-centered teaching approach.

The Main Building includes administration, laboratories, Placement cell, computer labs and classroom facilities as well the admissions and financial departments. There are different blocks for Civil and Mechanical engineering. The laboratories for civil and mechanical discipline is located in the respective blocks.

The various features of the Institution corresponding to teaching – learning are:

- Well furnished and ventilated classrooms
- Smart class rooms
- Well equipped laboratories
- Research laboratories
- Excellence centers
- Well furnished central library
- Department library
- Auditorium and Seminar halls
- Drawing halls
- Computer centre

The other facilities include:

- Health center
- Common rooms
- Separate hostel for boys and girls
- Technical and Non-technical clubs

S. No	Facility	Quantity (Nos)	Details
1.	Class rooms	41	With natural ventilation and good lighting faciliti
2.	Seminar halls/Meeting halls	5	Mini Auditorium – 300 seats Conference hall 1 – 300 seats Conference hall 2 – 300 seats Discussion room – 15 seats Executive hall (Placement cell) – 20 seats
3.	Specialized Facilities & Equipments for Teaching		LCD Projectors Smart Boards LCD / LED TVs OHP facility
4.	Laboratories	33	With all equipment and facilities in each departme
	Technology Enabled		Classrooms with smart boards 5 IT Enabled Class rooms Audio Visual Theatre

5.	Learning Spaces		Language Lab
			E-Learning Lab (Library)
			Linux / Windows Computer Labs
			Animation Lab
			Simulation Lab
			CAD/ CAM lab

Wireless Internet access is available throughout the buildings and surrounding outside areas. Computers with special educational softwares are available for students in the computer labs. Several classrooms are equipped with computers and mounted multimedia projectors. Portable multimedia presentation carts are also available in the departments.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

4.1.2 The institution has adequate facilities for sports, games (indoor, outdoor) gymnasium, yoga centre etc. and cultural activities

Response:

A. Sports Activities

- Outdoor and Indoor Sports Facilities: Every student is encouraged to take active part in at least one outdoor activity. The Institution has set up facilities/grounds for Cricket, Football, Basketball, Kabaddi, Volleyball, Table-Tennis, Badminton, Chess, Carom, etc., and league matches are encouraged. We also plan inter-college sports tournaments to develop a spirit of healthy competition
- Gymnasium: In order to ensure a sound body and mind, students are given special attention on health and fitness. A modern gym, with all the latest gadgets has been set up in the hostel

Sports Facilities available

- Outdoor games
    - Basketball court
    - Volley ball court
    - Football field
    - Cricket field

- - Tennis court
    - Ball badminton court
    - Kabaddi
  - Indoor games
    - Chess
    - Carrom
    - Table tennis
    - Shuttle
  - One gymnasium

  - **Yoga:** Yoga centre was established for Students and Staffs. The hostel students make use of the Yoga centre regularly.

B. Cultural activities

- The Institution has formed the Music club and Tamil Mandram in order to provide a platform for the students to bring out their latent linguistic and artistic talents. Frequent programs are conducted to encourage the student's participation.
- Students are encouraged to participate in the cultural events, local festivals and folk events
- Interdepartmental technical competitions are conducted to enhance the talents of students.
- An event "Sangamam"- an inter collegiate cultural meet is organized ever year for the cultural interaction among students across the region.
- Winners and participants are rewarded with cash prize and certificates.
- Pongal festival is celebrated in our college to relive and inculcate traditional values.
- Tamil Mandram – a native language club was inaugurated by the famous Veteran director-script writer Vietnam Veedu Sundaram. The Tamil Mandram is actively involved in organizing the cultural events regularly.

File Description	Document
Any additional information	[View Document](#)

4.1.3 Percentage of classrooms and seminar halls with ICT - enabled facilities such as smart class, LMS, etc

Response: 56.82

4.1.3.1 Number of classrooms and seminar halls with ICT facilities

Response: 25

File Description	Document
Number of classrooms and seminar halls with ICT enabled facilities	[View Document](#)

4.1.4 Average percentage of budget allocation, excluding salary for infrastructure augmentation during the last five years.

Response: 22.84

4.1.4.1 Budget allocation for infrastructure augmentation, excluding salary year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
200	220	160	150	60

File Description	Document
Details of budget allocation, excluding salary during the last five years	[View Document](#)
Audited utilization statements	[View Document](#)

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS)

Response:

The library is using ILMS called **AutoLib - Library software version 6.** AutoLib software has functionalities that enable a library to manage its housekeeping operations viz., acquisition of books and other materials, creation and maintenance of its catalogue database, circulation of its holdings, etc. The library is **fully automated** and has the following facilities:

1. Adequate reference books, journals and periodicals, Internet, E-learning resources, CDs and other educational software applications
2. Computer laboratories with printers, LCDs and scanners.
3. Computers in library for student access
4. IT and OPAC Terminal: To browse the collection by Subject wise, Branch wise, Author, Title, Keywords and Computers with internet connectivity for browsing and doing some academic related work.
5. Manuscripts: Doctoral thesis and selected project reports made available for reference
6. A good collection of Rare books are available
7. Reference: good number of dictionaries which students can access anytime. We also provide Referral and Bibliographic Service on demand.

8.Reprography: available.

Library Advisory Committee(LAC)

Dr. T. Sounderrajan : Principal

Dr. S Subburam, Prof/CSE : Library Officer

Dr. P Sharmilla, Assistant Prof/S&H : Assistant Library Officer

Mrs. Sumathi : Librarian

Mrs. Baby Shahila : Assistant Librarian

Mr. Vignesh Kumar : Student (Civil/Final year)

Ms. Radhika : Student (EEE/Final year)

Ms. Ramanarmadha : Student (ECE/Final year)

Ms. Sruthi : Student (Civil/Third year)

Ms. Mahalakshmi : Student (IT/Third year)

Ms. Shobana : Student (MCA/Third year)

Mr. Yoganandham : Student (MBA/First year)

The Functions of LAC are:

- Provide library membership to the faculty and students
- Assess the financial support required by the library based on library standards.
- Serve as an interpreter of the requirements of the library to the committee and authorities and recommend for funds needed.
- Provide support to the librarian in taking important decisions having implications for the users (Example: Change in working hours, change in rules regarding membership and borrowing privileges etc.).
- Establish better understanding the role of library among the users.
- Allotting sufficient funds for procurement of documents, employment of staff, purchase of equipment, maintenance etc.

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

4.2.2 Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment

Response:

Library having rich books and journal collection fulfills the academic resources needs of the students as well as faculty members. Library orientation programs and other schemes have resulted into good library usage. The library resources are used by faculty members to prepare the contents of their lectures, tutorials and laboratory sessions. They also make use of the facilities, such as journals, reference books, conference proceedings and digital library, for pursuing their research activities and also for guiding UG and PG projects. Library is utilized by the students to get acquainted with the recent trends in research in industry as well as in academia. The resources available in the library are used not only for their curricular requirements, but also for studies undertaken by them which require going beyond curriculum.

Specialized services provided by the library

Manuscripts / Thesis / project reports	Yes
Rare books	Yes
References	Yes
e-Journals	Yes
e-Books	Yes
Reprography	Yes
Information Deployment and Notification	Yes
Downloads	Yes
Printing	Yes
In-house/remote access to e-resources	Yes
Assistance in searching Databases	Yes
DeLNET/INFLIBNET	Yes

File Description	Document
Any additional information	[View Document](#)

4.2.3 Does the institution have the following:

1. e-journals
2. e-ShodhSindhu
3. Shodhganga Membership
4. e-books
5. Databases

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
Details of subscriptions like e-journals,e-ShodhSindhu,Shodhganga Membership etc.	View Document

4.2.4 Average annual expenditure for purchase of books and journals during the last five years (INR in Lakhs)

Response: 5.43

4.2.4.1 Annual expenditure for purchase of books and journals year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
5.88	6.04	7.08	3.83	4.31

File Description	Document
Details of annual expenditure for purchase of books and journals during the last five years	View Document
Audited statements of accounts	View Document

4.2.5 Availability of remote access to e-resources of the library

Response: Yes

File Description	Document
Details of remote access to e-resources of the library	View Document

4.2.6 Percentage per day usage of library by teachers and students

Response: 45.6

4.2.6.1 Average number of teachers and students using library per day over last one year

Response: 699

File Description	Document
Details of library usage by teachers and students	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

Information Technology Infrastructure is the combination of all hardware, software, network resources, and applications, database of an organization that supports and maintains the IT services of an organization. IT infrastructure provides the entire skeletal as well as muscular framework that keeps the organization in succession.

The staff and students of the institution can access internet within the campus. Wi-Fi connectivity is enabled for students and faculty. LAN facilities and resources for conducting online examinations exist in the institution.

- All the computers with Internet connectivity are provided with the

  unique DNS for easy maintenance and security.

- Every system is protected with a username and password
- Individual login identities are provided to the students, faculty and

  administrative staff members.

- All the servers are provided with power back-up for uninterrupted

The Institution provides full-fledged computing facilities with necessary software. Totally 706 computers are available across various laboratories and departments for the benefit of students and faculty members as well.

File Description	Document
Any additional information	View Document

4.3.2 Student - Computer ratio

Response: 1.95

File Description	Document
Student - Computer ratio	[View Document]

4.3.3 Available bandwidth of internet connection in the Institution (Lease line)

<5 MBPS

5-20 MBPS

20-35 MBPS

35-50 MBPS

Response: 35-50 MBPS

File Description	Document
Details of available bandwidth of internet connection in the Institution	[View Document]

4.3.4 Facilities for e-content development such as Media Centre, Recording facility, Lecture Capturing System (LCS)

Response: Yes

File Description	Document
Facilities for e-content development such as Media Centre, Recording facility,LCS	[View Document]
Link to photographs	[View Document]

4.4 Maintenance of Campus Infrastructure

4.4.1 Average Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, as a percentage during the last five years

Response: 20.64

4.4.1.1 Expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
161.50	161.02	155.02	133.35	132.04

File Description	Document
Audited statements of accounts.	<u>View Document</u>
Details about assigned budget and expenditure on physical facilities and academic facilities	<u>View Document</u>

4.4.2 There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

Response:

Policy details of systems and procedures for maintaining physical, academic and support facilities:

PSVPEC is committed to provide services that meet or exceed the expectations of stakeholders. We are actively pursuing a programme of quality improvements in the maintenance which will help us to provide a service that is 'right from first time' PSVPEC have implemented a quality management system that complies with the international standard ISO 9001:2015. PSVPEC is committed to monitor the effectiveness of our quality of the maintenance system and aims to continuously improve the service and operations to meet the requirements of our stakeholders as well as our legal and regulatory responsibilities.

System and Procedures

- In PSVPEC, a maintenance wing which is under the control of administration is taking care of the complete campus maintenance which includes buildings, class rooms, water supply, gardens, housekeeping, roads of all the areas. Infrastructure coordinator, the Estate Officer monitors activities in this connection.
- A maintenance register is available in the office, in which all the infrastructure related complaints and recommendations are registered. This ensures the proper functioning and improvement of the equipment and other facilities.
- All the equipments, instruments, machineries are properly used and maintained as recommended by the manufacturer to minimize the wear and tear damages. PSVPEC has a list of vendors for maintaining and up keeping the infrastructure.
- In case of any failure or requirement of repair / service, concerned in-charges will execute a work requisition in the prescribed format through HOD to carry out the maintenance activities.
- PSVPEC is maintaining an equipment history register to record the complete history such as name plate details, periodical service, spares replacements, breakdown details, etc., of all the equipments, instruments and machineries.
- All the applicable equipments and instruments are subjected to periodical calibration externally and internally to ensure its accuracy. The history of calibration of the equipment and instrument is being maintained in a calibration register in the respective laboratories / locations. This ensures a precision and good maintenance of instruments which are made available to the students during their practical sessions
- Preventive maintenance work is carried out during the vacation periods. PSVPEC is prepared to execute annual maintenance contract if necessary.
- Water tanks, water coolers and RO plant are subjected to periodical cleaning and maintenance to provide a quality service to the campus. A register is being maintained to record the history of maintenance activities for water tanks, coolers, RO plant and fire extinguishers.

- All electrical fittings are subjected to periodical checkup to ensure its functionality. A register is being maintained to record the history of verification, spares replacements and service.
- Each Department ensures that all the equipment is working properly without error by making trial run periodically
- Sensitive equipments are maintained with the proper safety provisions in all the laboratories through the respective in-charges
- Electricians and the supporting staff take care of electrical equipment's and their regular maintenance schedule
- Computers in the laboratories are provided with UPS connection to protect the equipment's and accessories against power fluctuations and shutdown as well
- The institution functions with high powered Generator to provide uninterrupted power supply to the campus.

File Description	Document
Any additional information	[View Document](#)

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years

Response: 34.86

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
545	568	539	606	492

File Description	Document
Average percentage of students benefited by scholarships and freeships provided by the Government during the last five years	[View Document](#)
Upload self attested letter with the list of students sanctioned scholarships	[View Document](#)

5.1.2 Average percentage of students benefited by scholarships, freeships, etc. provided by the institution besides government schemes during the last five years

Response: 57.54

5.1.2.1 Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
971	918	899	874	872

File Description	Document
Number of students benefited by scholarships and freeships besides government schemes in last 5 years	[View Document](#)
Any additional information	[View Document](#)

5.1.3 Number of capability enhancement and development schemes –

1. For competitive examinations
2. Career counselling
3. Soft skill development
4. Remedial coaching
5. Language lab
6. Bridge courses
7. Yoga and meditation
8. Personal Counselling

A. 7 or more of the above

B. Any 6 of the above

C. Any 5 of the above

D. Any 4 of the above

Response: A. 7 or more of the above

File Description	Document
Any additional information	[View Document](#)
Details of capability enhancement and development schemes	[View Document](#)

5.1.4 Average percentage of student benefited by guidance for competitive examinations and career counselling offered by the institution during the last five years

Response: 8.82

5.1.4.1 Number of students benefited by guidance for competitive examinations and career counselling offered by the institution year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
132	121	140	164	141

File Description	Document
Number of students benefited by guidance for competitive examinations and career counselling during the last five years	
Any additional information	

5.1.5 Average percentage of students benefited by Vocational Education and Training (VET) during the last five years

Response: 7.12

5.1.5.1 Number of students attending VET year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
179	117	96	83	77

File Description	Document
Details of the students benifitted by VET	
Any additional information	

5.1.6 The institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

Response: Yes

File Description	Document
Details of student grievances including sexual harassment and ragging cases	
Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee	

5.2 Student Progression

5.2.1 Average percentage of placement of outgoing students during the last five years

Response: 82.78

5.2.1.1 Number of outgoing students placed year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
300	350	355	379	358

File Description	Document
Any additional information	[View Document](#)
Details of student placement during the last five years	[View Document](#)

5.2.2 Percentage of student progression to higher education (previous graduating batch)

Response: 9.3

5.2.2.1 Number of outgoing students progressing to higher education

Response: 33

File Description	Document
Upload supporting data for student/alumni	[View Document](#)
Details of student progression to higher education	[View Document](#)

5.2.3 Average percentage of students qualifying in state/national/ international level examinations during the last five years (eg: NET/SLET/GATE/ GMAT/CAT, GRE/ TOFEL/ Civil Services/State government examinations)

Response: 7.92

5.2.3.1 Number of students qualifying in state/ national/ international level examinations (eg: NET/SLET/GATE/GMAT/CAT, GRE/TOFEL/Civil Services/State government examinations) year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
5	5	3	6	5

5.2.3.2 Number of students who have appeared for the exams year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
56	52	61	72	64

File Description	Document
Number of students qualifying in state/ national/ international level examinations during the last five years	View Document
Upload supporting data for the same	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/cultural activities at national / international level (award for a team event should be counted as one) during the last five years.

Response: 23

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
6	6	4	4	3

File Description	Document
Number of awards/medals for outstanding performance in sports/cultural activities at national/international level during the last five years	View Document
e-copies of award letters and certificates	View Document

5.3.2 Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution

Response:

Students are the pillar of our institution. All organizing committees for seminars, symposia, conferences and workshops are headed by student representatives. There are various **academic and administrative** committees involved in the overall functioning of the institution with student participation.

Every class has a class committee which consists of the students and faculty members. Class committee meetings are organized periodically and at times of need. It serves as the voice of the students in front of faculty and has a say in academic matters such as conduct of tests and so on.

Active Student Council & representation of students on academic & administrative bodies/committees of the institution

The Student Council is a representative structure through which students can become involved in the affairs of the College, working in partnership with management, staff and parents for the benefit of the College and students.

Objective

1. To make the students participate in the development of the institute as well as in the process develop their personality, organizational skills and career through interactive programs with the faculty, administration and society.
2. To provide a common platform to students for co-curricular and extra-curricular activities. It is responsible for all the major technical, cultural, literary and sports activities organized in the college premises.
3. Activities under the council will be well supported by a team of faculty members.

Each committee comprises of Convenor, Co-Convenor, students' members and staff members. The committees are formed based on the academic and administrative activities initiated and organized in the college. The formation of the committees has enhanced the smooth functioning of the academic activities and other co-curricular events. The various committees functioning in the institution are:

- Library Advisory Committee
- Alumni Association
- Anti-ragging committee
- Placement committee
- Discipline and welfare committee
- Grievances and redressal committee
- Research committee
- Class Committee
- Cultural and events Committee
- Sports advisory committee
- Entrepreneurship Development Cell (EDC)
- Women empowerment cell
- National Service Scheme (NSS)
- Youth Red Cross (YRC)
- Rotaract Club
- Hostel committee

Duties of Student Council

S.no	Name of the post	Responsibility
1	Convenor	Spearheading the council activities, planning, executin the calendar of activities across the academic year.
2	Co-convenor	Coordination with students and faculty and Implemen Meet deadlines and achieve goals. Assume other duti the Convenor, such as meeting Stakeholders to orga smoothly.
3	Members	• Communicate ideas from the student body to the • Report to the Students the results of Council acti • Participate and coordinate committee meetings

• Volunteer as needed.

File Description	Document
Any additional information	[View Document](#)

5.3.3 Average number of sports and cultural activities/ competitions organised at the institution level per year

Response: 8.8

5.3.3.1 Number of sports and cultural activities / competitions organised at the institution level year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
13	11	7	7	6

File Description	Document
Any additional information	[View Document](#)
Number of sports and cultural activities / competitions organised per year	[View Document](#)

5.4 Alumni Engagement

5.4.1 The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

Response:

The Alumni Association of PSVPEC is active since 2005. The Placement and training cell in coordination with the departments organizes alumni meet every year to review the activities of the current year and plan the activities for the forthcoming year. PSVPEC Facebook page, group mail ids, etc. are available to connect with the alumni and conduct alumni interaction programmes.

Alumni interact with the respective HoDs and give them information regarding current trends and practices in the industries in which they work, so that suitable improvements in the infrastructure facilities can be made in the institution. PSVPEC Alumni Association is governed by an elected body of members, which comprises of president, vice-president, secretary, treasurer and other office bearers.

PSVPEC alumni are actively involved in the following activities for the benefits of the Institution and its students:

- The alumni assists the Institution by providing information to the Training and Placement Cell about job openings in companies and additional training and other needs for student's development
- The alumni deliver's talks/seminars on current industry trends and requirements. They also help in arranging resource persons for seminars in key areas.

- Alumni are also involved in guiding certain final year projects. They also help the department to identify the industries for students to undergo in plant training and internships.
- Alumni Interactive sessions are also arranged through the Training and Placement Cell for providing guidance regarding higher studies, competitive exams and placement for juniors.
- Based on the feedback from the alumni interaction / industry experts, value added courses are provided for the development of the students.
- Alumni conducts mock Interviews for all the departments to prepare the students for placement.
- Alumni pre-placement talks are conducted to enhance the employability skills of the students.

Details of Main Office bearers in PSVPEC Alumni Association

S.no	Name	Designation	
1.	Mrs. M.Sumana	President	
2.	Mr. S. Srisathirapathy	Secretary	
3	Mrs. D.Deepa	Treasurer	
4.	Mrs. K. Prescilla Vasanthini	Joint Secretary	
5.	Mrs. J.Priyadarshini	Vice president	

File Description	Document
Any additional information	View Document

5.4.2 Alumni contribution during the last five years
<1 Lakh

1 Lakh - 3 Lakhs

3 Lakhs - 4 Lakhs

4 Lakhs - 5 Lakhs

Response: <1 Lakh

File Description	Document
Alumni association audited statements	View Document

5.4.3 Number of Alumni Association / Chapters meetings held during the last five years

Response: 5

5.4.3.1 Number of Alumni Association /Chapters meetings held year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	1	1

File Description	Document
Number of Alumni Association / Chapters meetings conducted during the last five years.	[View Document](#)

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution

Response:

Vision:

To be a world-class prominent institution for technical education and research to meet the global challenges and demand for the societal needs.

Mission Statement

PSVPEC will strive continuously to

- To develop the resources and infrastructure not only to meet the statutory requirements but also far exceed them to become a preferred destination for learners by providing a conducive ambience for the teaching – learning process.
- To develop in the learners high personal and professional ethical values, technical competence and a spirit of innovation and entrepreneurship.
- To develop in the learners a desire for higher learning and research.
- To interact with industries and other organizations to provide for transfer of knowledge and know how.
- Equip the students to face the global challenges successfully.

Governance is to put on record, the structure and practices that have resulted in efficient functioning to provide benefits and satisfaction to all stake holders and hence lead to overall quality enhancement. The institute's governance makes sure; there is integrity at all levels of individuals, systems and organization in relation to external and internal related activities of the college. Strong leadership and management skills in all of the places, where they are needed are maintained. Contributes itself in monitoring and improving the quality of teaching and learning and within institutions for improving that quality with appropriate student involvement. Lean and competent administration of the governance delivers improvements in research quality and entrepreneurship eco-system. Robust and transparent financial systems, especially regarding procurement; and a strong internal and external audit system. Allows the student participation in management and governance at all levels

The institution's perspective plan are promotion of industry-institution interaction and R&D activities, Providing consultancy services and participation in policy planning at the regional/National level for development of technical education. The institution is known by the achievements of its faculty and students. It therefore proposes to constitute a Research and faculty development Cell with the aim to encourage and support the faculty to undertake Ph.D. under Faculty Improvement Programme, minor and major research projects funded by UGC, AICTE. To promote research, IQAC proposes to establish a research promotion cell. Good infrastructure adds to quality of education and also for better campus life. The infrastructure of the College is developed to keep pace with the needs.

Promoting forms of participation in decision making increase faculty's actual involvement in decisions, concerning their duties and opportunities for development and also provide for more sharing on issues concerning the institutional management. Faculties are involved in taking decisions related to infrastructural additions and framing perspective policy planning's with ethical values and technical competence to kinder the spirit of innovation and creativity. They are involved in formulating the norms for instituting scholarships, fellowships, studentships, medals, prizes and certificates.

File Description	Document
Any additional information	[View Document](#)

6.1.2 The institution practices decentralization and participative management

Response:

The College follows the policy of decentralization. There are different bodies that give academic and administrative leadership to the institution. An optimum level of decentralization through the autonomous departmental system and participative decision making process are in practice. The Governing Body delegates all the academic and non-academic decisions based on policy to the college Committee headed by the Principal. The college Committee formulates common working procedures and entrusts the implementation through departments. The department heads, senior faculties and coordinator manages the day to day activities of the department and keeps a track of co-curricular and extra-curricular activities in the College.

Other units of the college like sports, arts, library etc. have operational autonomy under the guidance of the various committees / clubs / associations and students are involved from various departments in the decision-taking process. The Institution is always open to discussion with the teaching and non-teaching staff which, in turn, encourages the involvement of the staff for the improvement of effectiveness and efficiency of the institutional process. In addition, Alumni and parents of the present students are also involved from time to time to provide feedback and suggestions in the academic interest of the students.

The extent of decentralization and participative management practiced in the institution is highlighted by the following:

- The Principal takes policy decisions in consultation with the College Council comprising all HODs and two elected staff representatives of each department.
- The Vice Principal oversees the admission process and monitors student's attendance regularity.
- The Heads of the Departments allocate work to the faculty members and prepare time tables for their respective departments..The Head of the Department regularly organizes meetings with the faculties to assess the progress in teaching learning and any deviation from the session plan, and accordingly, corrective measures, if any, such as extra classes etc. are organized.
- All the co-curricular and extension activities are planned and executed by the co-ordinators in different clubs and forums.
- The staff meetings are held at least once every month, where important matters relating to academics, examinations, research and the general discipline of the campus are deliberated and the opinion of the staff is sought.

- Faculty members participate in the weekly meeting convened by the Principal to review the action plan, evaluate the results achieved and take decisions on the academic and administrative matters.
- Students participate in class committee meetings to give suggestions for improvement and to identify the assistance needed in academics, co-curricular and extra-curricular activities. The Students under the guidance of the Staff Advisor co-ordinates the literary and cultural activities of the College.
- The IQAC is actively involved in prescribing quality norms and ensuring adherence to the same. The IQAC consists of members from management, faculties, students, alumni and external experts as per norms.

Committees such as Discipline Committe, Ragging Prevention Committee, Fine Arts Committee, PTA Executive Committee, Admission Committee, Grievance Redressal Cell, Ethics Committee, College Magazine Committee, Research Advisory Committee, Library Advisory Committee, Anti Drug Committee, and NSS and NCC are some of the forums where the faculty get involved in the planning and execution of the co-curricular activities of the institution.

File Description	Document
Any additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 Perspective/Strategic plan and Deployment documents are available in the institution

Response:

Strategic Plan 2015–2020 identifies the following broad targets:

- Become a leading technological institution, ranked in the top colleges in all disciplines
- Establish a track record as a creator of new and innovative project and research for industrial needs
- Specific targets are fixed with respect to research and development cell for the next five years.
  - Increase the number of research projects
  - Increase publications in national/international journals and conference proceedings
  - New MOUs signed with academic and industrial organizations for research establishments
  - Establish Centres of excellence activities
- Incubate successful start-ups creating innovative products
- Intensify the involvement of alumni in all aspects of the Institute's development
- Provide an invigorating work environment for faculty and staff, where merit and hard work are recognised and rewarded

Prince Educational Society, the driving force behind Prince Shri Venkateshwara Padmavathy Engineering College has set in motion a number of forward looking initiatives. The Trust has two engineering colleges, five schools and one arts college with more than 800 committed faculty and 16500 students under its umbrella. PSVPEC is the flag ship institution of the Prince Educational Society. The institution is running six Bachelor of Engineering programs, three Post Graduate courses master and a reputed centre for three Research.

PSVPEC has done well on practically all parameters based on its rigorous undergraduate and postgraduate education. A number of awards, memberships of professional societies, memberships of editorial boards, etc. have been achieved by the faculty, which speaks well of the Institute. The record of publication in leading technical journals is impressive. A striking feature of PSVPEC has been the focus on quality academic research.

The strategic development plan (SDP) 2015-2020 would acts as guiding document for the next five years to assess and improve the institution towards delivering high quality education there by earning due recognition. SDP's main focus would be on good governance, best in class teaching learning, research & innovation and highly employable students who act as brand ambassadors for the institution.

I congratulate and commend the high quality work done by the Principal, Advisor, HODs, and Faculty towards developing Strategic Development Plan.

Wishing all the success!

Dr.K.Vasudevan

Founder-Chairman

File Description	Document
Any additional information	[View Document](#)
Link for Additional Information	[View Document](#)

6.2.2 Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism

Response:

The Chairman is the head of both the academic and administrative sections and is in-charge of all the activities conducted in the college. The head of the committees assist for the smooth functioning of academic and administrative activities. The Principal organizes various committees to monitor several activities carried out in the college. Training & Placement officer is responsible for college-industry tie-up and career guidance for the students.

FUNCTIONS OF VARIOUS BODIES

S.NO.	LIST OF COMMITTEE	NAME OF MEMBERS	POSITION	
1.	Governing Council	Dr. K. Vasudevan	Chairman	

		Er. K. Parthasarathy	Member	
		Dr. J. Kumar	Member	
		Dr. V.Vishnu Karthik	Member	
		Dr. T.Soundararajan	Member Secretary	
2.	Planning and Monitoring Board	Dr. V. Vishnu Karthik	Vice Chairman	
		Mr. V. Prasanna Venkatesh	Vice Chairman	
		Er. K. Parthasarathy	Convener	
		Dr. T. Soundararajan	Principal	
		Dr. G. Indira	Member	
		Mrs. V. Mythili	Member	
		Mrs. K. Padmini	Member	
3.	Academic Internal Audit Committee	Dr. T. Soundararajan	Principal	
		Dr. P. Sharmila	Convener	
		Mrs. V. Mythili	Co-Convener	
		Mr. P. Ashok	Member	
		Mr. P. Veeraraghavan	Member	
		Mr. J. Ramesh	Member	
		Mrs. A. S. Valarmathy	Member	
		Mrs. Rupa Kesavan	Member	
4.	Entrepreneur Development Committee	Dr. T. Soundararajan	Principal	
		Mrs. S. Radhika	Convener	
		Mrs. S. Ajitha	Member	
		Mrs. T.V. Saranya	Member	

		Ms. M. Pavithra	Student Member
		Mr. M. Naveen Chandran	Student Member
5.	Anti-Ragging Committee	Dr. T. Soundararajan	Principal
		Dr. K. K. Senthilkumar	Convener
		Mrs. S. Radhika	Co-Convener
		Mr. M. Nellaiappan	Member
		Mrs. P. Veeralakshmi	Member
		Mrs. A. S. Valarmathy	Member
		Mrs. T. Hemalatha	Member
		Mr. K. Radhesh	Student Member
		Mr. B. Manish Kumar	Student Member
		Ms. S. Gayathri	Student Member
		Ms. S. Monica	Student Member
6.	Discipline and Welfare Committee	Dr. T. Soundararajan	Principal
		Er. K. Parthasarathy	Member
		Dr. S. Subburam	Convener
		Mrs. S. Rajalakshmi	Student Counselor
		Mrs. B. Kalpana	Co-Convener
		Mrs. S. Radhika	Member
		Mrs. V. Mythili	Member
		Mr. M. J. Murali	Member
		Mr. P. Veeraraghavan	Member
		Ms. S. Aparna	Student Member
		Mr. C. Akshay	Student Member

7.	Grievance and Redressal Committee	Dr. T. Soundararajan	Principal		
		Mrs. V. Mythili	Convener		
		Mrs. B. Kalpana	Co-Convener		
		Dr. Ramprabhu	Member		
		Mrs. S. Kavitha Karthikeyan	Member		
		Mr. A. R. Aravind	Member		
		Dr. N. R. SumithraBai	Member		
		Ms. Nivedha	Student Member		
		Mr. K.M. Vignesh	Student Member		
8.	Women Empowerment Committee	Dr. T. Soundararajan	Principal		
		Dr. G. Indira	Convener		
		Dr. K. K. Senthilkumar	Co-Convener		
		Mrs. R. Rajalakshmi	Member		
		Mrs. A. S. Valarmathy	Member		
		Mrs. P. Yesodha	Member		
		Mrs. D. Manimegalai	Member		
		Ms. N. Premalatha	Member		
		Ms. M. Rama Narmadha	Student Member		
		Mr. R. Sanjeev	Student Member		
9.	Placement Committee	Dr. T. Soundararajan	Principal		
		Mr. R. Sri Sainath	Placement Director		
		Mr. A. R. Aravind	Member		
		Mr. J. Ramesh	Member		
		Mrs. P. Chandra Kala	Member		
		Mrs. D. Manimegalai	Member		
		Mrs. Lydia Jascinth Femila	Member		

		Mrs. M. R. Rajeshwari	Member		
		Ms. T. Aishwariya	Student Member		
		Mr. P. Manikandan	Student Member		
10.	Research Committee	Dr. T. Soundararajan	Principal		
		Dr. K. K. Senthilkumar	Convener		
		Mr. K.Senthilkumar	Co-Convener		
		Dr. S. Subburam	Member		
		Mr. G. Indira	Member		
		Mr. P. Ashok	Member		
		Mrs. P. Veeralakshmi	Member		
		Mrs.S. Kavitha Karthikeyan	Member		
		Mr. G. Sathi	Member		
11.	Library Advisory Committee	Dr. T. Soundararajan	Principal		
		Dr. P. Sharmila	Convener		
		Dr. S. Subburam	Co-Convener		
		Mrs. R. S. Sumathi	Librarian		
		Mrs. T. Baby shakila	Asst. Librarian		
		Mrs. R. Reena	Member		
		Mr. T. Shyam Shankar	Student Member		
12.	Sports Committee	Dr. T. Soundararajan	Principal		
		Mr. K. Suriya Bharathi	Convener		
		Mrs. S. Tamilmurasu	Co-Convener		
		Dr. S. Subburam	Member		
		Mr. P. Ashok	Member		
		Mr. J. Ramesh	Member		
13.	Cultural and Events Committee	Dr. T. Soundararajan	Principal		
		Dr. T. Saravanan	Convener		

		Dr. P. Sharmila	Co-Convener	
		Mrs. J. Jayashankari	Member	
		Mrs. J. Priyadharshini	Member	
		Mr. R. Sabareesh	Student Member	
		Ms. S. Anandhi	Student Member	
		Ms. K. J. Radhika	Student Member	
		Mr. K.V. Krishna Prasad	Student Member	
14.	Hostel Committee	Dr. T. Soundararajan	Warden	
		Er. K. Parthasarathy	Warden	
		Mr. V. Ganapathy	Deputy Warden (Boy	
		Ms.T. Vinithra Banu	Deputy Warden (Gir	
		Mr. M. Nellaiappan	Member	
		Mr. T. R. Karthik	Student Member	
		Ms. S. Sivatharani	Student Member	
15.	Student Counseling Committee	Dr. T. Soundararajan	Principal	
		Dr. J. Vignesh Shankar	Convener	
		Mrs. D. Manimegalai	Co-Convener	
		Mrs. R. Rajalakshmi	Member	
		Mr. E. Jagadeeshan	Student Member	
		Ms. G. Dhakshayini	Student Member	

Various actions are initiated by these committees and recommendations submitted to the Principal for approval and action. The Committees directly perform, monitor, and/or supervise the staff in the area of their work. The Principal supervises and facilitates the work of these Committees which are accountable to him periodically.

File Description	Document
Any additional information	[View Document](#)

6.2.3 Implementation of e-governance in areas of operation: 1.Planning and Development 2. Administration 3. Finance and Accounts 4. Student Admission and Support 5.Examination

A. All 5 of the above

B. Any 4 of the above

C. Any 3 of the above

D. Any 2 of the above

Response: B. Any 4 of the above

File Description	Document
Details of implementation of e-governance in areas of operation Planning and Development,Administration etc	[View Document](#)
ERP Document	[View Document](#)
Screen shots of user interfaces	[View Document](#)

6.2.4 Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions

Response:

The institution functions based on various agendas set. Each agenda is worked upon and propagated with the help of various cells & committees like Internal Quality Assurance Cell (IQAC), Research & Development Cell, Training & Placement Cell, Examination Cell, Entrepreneurship development Cell (EDC), Discipline and welfare committee, Women empowerment committee, Anti ragging committee, Grievance and redressal cell, Alumni Association, Class Committee, Cultural Committee, National Service Scheme, Rotaract Club, Sports advisory board, etc.,

Entrepreneurship Development Cell:

Spirit of entrepreneurship is inculcated among the students by the Entrepreneurship Development Cell (EDC). The EDC organizes events and talks by eminent entrepreneurs.

PSVPEC has set up an Entrepreneurship Development Cell (EDC) and takes care of the personal enhancement and development of students through various means.

Motivating the students for Entrepreneurship, thus producing Job creators, rather than Job seekers, contribute to the National development, by generating employment opportunities.

The objective of the EDC in PSVPEC is to promote and develop institutional mechanism, to create entrepreneurial culture in academic institutions and to foster growth of innovation and entrepreneurship amongst the faculty and students.

Minutes of the meeting:

1. A meeting of was held on 21.10.2016, from 9:00 to 11:30 a.m. at conference Hall, PSVPEC
2. The Convener Mrs. Radhika. S, welcomed all participants in the meeting, on behalf of the management
3. The Convener heap praise on the Honorable chief guest Dr.G.Ravikumar who addressed on "Why you want to become an Entrepreneur" and "How to Start-up"
4. The Convener, the Principal and the Management were glad to proclaim the "young and dynamic entrepreneurs" **Mr. Akilash Maryson. J (Alphonsa Aqua Containers), Mr. Sathiyamoorthy. G & Mr. Sabari. S (S-Cube Promoters)** from PSVPEC.
5. The Convener congratulated the following students for their active participation and their achievements in **"Business plan workshop and B- plan contest"** organized by Entrepreneur Development Cell, Tagore Engineering College, Department of Management Studies in Association with CSIE-IIT Madras.After meaningful discussion, following decisions were taken by EDC members:

- A strong focus on development and encouragement of women entrepreneurship and rural entrepreneurship.
- Strong emphasis on exposure to Start-ups and entrepreneurship from day zero for higher education students at institutions to be made.
- To broadcast relevant educational content to sensitize and encourage students to build new Start-ups through various print and visual media like Television, private radio channels, etc.
- Efforts to support student Start-ups at every stage – ideation, prototyping and growth stage.
- At the end of the meeting, the Convener expressed her deep satisfaction with regard to the progress made. She also thanked the participants for sharing their experiences.

File Description	Document
Any additional information	[View Document](#)

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures for teaching and non-teaching staff

Response:

The following are few of the welfare schemes available for the teaching and non-teaching staff with the percentage of faculty who has availed the benefit in the last four years:

- Free Transport
- Maternity Leave for Women Faculty
- Employee Provident Fund (EPF)
- "On Duty" for attending FDP's,workshops,conferences and other Anna university examination duties
- Sponsorship for attending FDP's,conferences, workshops and seminars
- Fee Concession for wards admitted in School / College of Prince Group of Institutions
- In-Campus Ambulance facility
- Marriage leave

File Description	Document
Any additional information	[View Document](#)

6.3.2 Average percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 28.39

6.3.2.1 Number of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
43	42	39	37	36

File Description	Document
Details of teachers provided with financial support to attend conferences,workshops etc. during the last five years	

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non teaching staff during the last five years

Response: 2.4

6.3.3.1 Total number of professional development / administrative training programs organized by the Institution for teaching and non teaching staff year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
3	2	3	2	2

File Description	Document
Any additional information	
Details of professional development / administrative training programs organized by the Institution for teaching and non teaching staff	

6.3.4 Average percentage of teachers attending professional development programmes viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programme during the last five years

Response: 51.88

6.3.4.1 Total number of teachers attending professional development programs, viz., Orientation Program, Refresher Course, Short Term Course, Faculty Development Programs year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
79	71	77	68	65

File Description	Document
Details of teachers attending professional development programs during the last five years	

17-01-2018 10:17:33

6.3.5 Institution has Performance Appraisal System for teaching and non-teaching staff

Response:

VISION

All learners believe in their power to embrace learning, to excel, and to own their future.

MISSION OF THE TEACHER PERFORMANCE APPRAISAL

PSVPEC's Teacher Performance Appraisal provides a systematic structure to build and ensure a culture of professional learners committed in meeting the educational needs of all students.

CORE BELIEFS ABOUT TEACHER PERFORMANCE APPRAISAL

PSVPEC's Teacher Performance Appraisal system is grounded on three core beliefs about teaching and learning:

1. Teachers have a profound impact on student achievement.

2. Professional growth is essential in developing and maintaining content

knowledge, pedagogical knowledge and skills, and the knowledge and skills

needed to integrate technology into teaching and learning.

3. Professional relationships enhance commitment to continuous improvement and professional growth.

KEY CONCEPTS OF THE TEACHER PERFORMANCE APPRAISAL

The Teacher Performance Appraisal is built upon self assessment with six *key concepts*:

Teaching and Learning Processes:

Within the performance appraisal process, standards provide scope for teachers and to make informed decisions about teaching performance and may assist in identifying future areas for growth and development. Establish baseline status data across all elements in the framework. To provide evidence regarding their skills in planning and aligning their lessons to University standards and curriculum.

Academic Research:

The teacher should adapt and create new strategies for unique student needs and

situations. Teacher organizes students into groups with the expressed idea of deepening their knowledge of informational content. The teacher should develop within by updating their knowledge by continuously involving in research and by guiding students to improve their innovative ideas as research.

Sponsored Research and Industry Interface:

The teacher maintains strong industrial links by undertaking consultancy assignments. This includes job of varied nature like troubleshooting, product and process development and design checks. In addition to these activities, the faculty members also run short-term company specific training programmes.

Student Related Activities:

Participation of the teacher in co-ordination and participation in Innovation clubs, Association activities, Department magazine, training, internship, mentoring, etc are evaluated here.

College/ Department Development Activities:

Contribution of teacher in development of department activities are evaluated here like professional activities, library work, participating in FDP, Alumni, Newsletter, Canteen etc.

File Description	Document
Any additional information	[View Document](#)

6.4 Financial Management and Resource Mobilization

6.4.1 Institution conducts internal and external financial audits regularly

Response:

The College's financial objectives are:

- An improving annual operating surplus position.
- A continued focus on delivering value for money.
- Plans to maintain, improve, and protect our core business and financial position through increased learner numbers in each of our departments.
- A programme to support staff to effectively utilise new technologies to facilitate outstanding learning for all ages.
- Long term planning and robust risk management.

Audit committee and process

The Audit committee comprises of six members. The Audit committee meets on a termly basis and provides a forum for reporting by the College's internal, regularity and financial statements auditors, who have access to the committee for independent discussion, without the presence of College management. The College's internal auditors monitor the systems of internal control, risk management controls and governance processes in accordance with an agreed plan of input and report their findings to management and the Audit committee. Management is responsible for the implementation of agreed audit recommendations and internal audit undertakes periodic follow-up reviews to ensure such recommendations have been implemented.

File Description	Document
Link for Additional Information	View Document

6.4.2 Funds / Grants received from non-government bodies, individuals, Philanthropists during the last five years (not covered in Criterion III)

Response: 70.95

6.4.2.1 Total Grants received from non-government bodies, individuals, philanthropists year wise during the last five years (INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
32.79	22.70	15.46	0	0

File Description	Document
Annual statements of accounts	View Document
Details of Funds / Grants received from non-government bodies during the last five years	View Document

6.4.3 Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Response:

Resource mobilisation strategy entails plan, actions and allocation of resources that are necessary for the achievement of the goals.

Major Sources of institutional funding are:

1. Student fee
2. Funding from external agencies
3. The deficit is managed through the parent society, through loans

The institution is self-financed and hence the main source of income is the fee collected from students. The expenditure mainly consists of salary payments, laboratory infrastructure & building infrastructure and maintenance. In addition to the tuition and other fees paid by the students, if required, the institution secures additional funding through term loans from commercial banks. The institution applies for funding for taking up major research projects, workshops, seminars and conferences from funding agencies and this amount is exclusively used for intended purpose. The Audited accounts of the institution for previous financial years are enclosed.

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Response:

PSVPEC has initiated lot of measures to monitor and ensure the quality of process and products i.e. the students. One of such measures is promoting Internal Quality Assurance Cell (IQAC) through which the quality of implemented system / procedure is being assured by effective monitoring mechanism. PSVPEC has developed a sturdy IQAC team for evaluating the effectiveness of the system/procedure and initiates all measures to enhance the quality continuously. IQAC is acting as a nodal agency of the Institution for coordinating quality-related activities, including adoption and dissemination of best practices;

- Two best practices as a IQAC initiatives

Best practice 1: **Internal / External Audit:**

Best practice 2: **Satisfaction of stakeholders**

File Description	Document
Any additional information	View Document
Link for Additional Information	View Document

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

Response:

PSVPEC is strongly believe that teaching and learning methods are valuable tools that lead the young learners who are both intrinsically and extrinsically motivated to inquire, infer, and interpret; to think reflectively, critically and creatively; and in the final analysis to make use of the knowledge and skills they have gained by becoming effective decision makers. PSVPEC carefully concentrates the student's learning and accordingly takes measures to improve the teaching and learning process. PSVPEC involves IQAC to get periodical feedback from the students to enhance the teaching quality to support the learning of student to maximum extent. Also, IQAC analyze the results of internal assessments and end semester examinations and takes necessary actions to improve the teaching and learning process. PSVPEC considers the failures observed in the internal audits and takes suitable corrective measures to improve the teaching learning

process and methodologies effectively.

Examples: Two institutional reviews and implementation

Example 1: **Result analysis**

PSVPEC is focusing to review the result of every semester and its effectiveness in teaching and learning process to ensure continual improvement process.

IQAC shall analyze the result and identify the students by categorizing as slow, medium and high performing students. Suitable counseling is being done along with the parents for the students of all categories by the department coordinators. As a result of counseling, considerable changes in teaching and learning processes are made in consultation with principal to motivate the students for better learning (ex. more emphasize on eLearning, motivating high performance students for aiming for university ranks, conducting special classes to the slow performer, etc).

PSVPEC is striving hard to improve the performance of the students by conducting periodical assessment tests covering the entire syllabus. PSVPEC is taking at most care to improve the slow performers by conducting retest for the students scoring below 30 marks. Also, as a part of corrective measures, assignments will be given to the slow performers to improve their knowledge in the subjects. In addition, remedial classes will be conducted between 4.00pm to 5.00pm and study materials are being supplied to improve their performance.

IQAC shall ensure continual improvement on the performance of students by conducting periodical audit during the semester

Example 2: **Corrective Action and Preventive Action (CAPA)**

PSVPEC has initiated necessary actions wherever any discrepancies warranting corrective action responses or any potential discrepancies warranting preventive action responses and for verifying the effectiveness of the implemented corrective / preventive actions.

- **Corrective Action:** Action taken to eliminate the cause of a detected nonconformity or other undesirable situation in order to prevent recurrence.
- **Preventive Action:** Action taken to eliminate the cause of a potential nonconformity or other undesirable potential situation in order to prevent occurrence.

- PSVPEC has excellent system for CAPA to address various discrepancies and, as applicable and defined the areas / departments / personnel responsible for implementing necessary corrective actions in regard to the same are as follows:

Discrepancy	Corrective Action Responsibility	
Process Audit failure	IQAC/Department HODs	
Process Monitor failure	Department HODs	
Academic Audit failure	Principal / Department HODs	

Equipment / Instrument Failure	Lab-In charges / Departments / IQAC	
Incoming material inspection failure / material defects observed during process	Appropriate Vendor	
Customer complaints	HR/IQAC	
Environmental audit failure	Administration	
Discrepancies in the infrastructure, safety and health measures	Administration	

Any area / departments / personnel can initiate and implement necessary preventive actions in their process with the consent of IQAC. An effective CAPA system is in place and it is under the monitor of IQAC.

File Description	Document
Any additional information	[View Document](#)

6.5.3 Average number of quality initiatives by IQAC for promoting quality culture per year

Response: 1.6

6.5.3.1 Number of quality initiatives by IQAC for promoting quality year-wise for the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
2	4	1	1	0

File Description	Document
Number of quality initiatives by IQAC per year for promoting quality culture	[View Document](#)

6.5.4 Quality assurance initiatives of the institution include:

1. **Regular meeting of Internal Quality Assurance Cell (IQAC); timely submission of Annual Quality Assurance Report (AQAR) to NAAC; Feedback collected, analysed and used for improvements**
2. **Academic Administrative Audit (AAA) and initiation of follow up action**
3. **Participation in NIRF**
4. **ISO Certification**
5. **NBA or any other quality audit**

A. Any 4 of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

Response: B. Any 3 of the above

File Description	Document
Details of Quality assurance initiatives of the institution	[View Document](#)
e-copies of the accreditations and certifications	[View Document](#)

6.5.5 Incremental improvements made during the preceding five years *(in case of first cycle)* **Post accreditation quality initiatives** *(second and subsequent cycles)*

Response:

PSVPEC is striving hard to ensure continual improvements in all aspects. The measures made by PSVPEC for the past five years are listed below:

- **2012 – 13**

Improvement in teaching and learning process

The effectiveness of teaching – learning process is reviewed on regular basis through IQAC and class committee meeting. Two feedbacks in every semester is collected from the students and necessary changes/improvements based on the feedback are being implemented. Feedbacks are analyzed by HOD/Principal and communicated to the concerned teaching faculty with review remarks for suitable improvements

Introduction of cash awards

PSVPEC is taking all measures to motivate the students as well as departments by introducing cash awards for the Anna University rank holders, Toppers of each branch of the institution and department achieving first position in the pass percentage, etc thereby a remarkable improvement can be achieved in the overall performance.

Introduction of National Service Scheme (NSS)

The Institution inculcates social consciousness among its students through NSS. The NSS wing of the college conducts programmes in villages around the college to educate the villagers on hygiene & sanitation, literacy, women and their status in the society.

- **2013 – 14**

Improvements in the Library services

Central Library is fully computerized and the software installed during July 2013. Library is kept open from 8.00 A.M to 8.00 P.M on all working days. Apart from Central Library, we have department library also. Barcode technology is introduced in the library for better tracking of books. Our college subscribes to most of the major technical journals including **IEEE, IEE, ACM, ASME** and **Science Direct journals**. Central Library has its own intranet web portal.

- **2014 – 15**

Improvements in Monitoring Mechanism

PSVPEC has employed an effective monitoring system under IQAC to ensure the quality of process by means of advance planning and implementing the audit schedule. IQAC is imparting exclusive training to the faculties to conduct the audits for efficient monitor. IQAC is using all the QC tools to monitor and identify the areas where the attention is required to improve the efficiency of the system/procedure.

- **2015 – 16**

Active Training and placement cell

The institution has a very active placement cell that provides campus placement opportunities to eligible students. The placement cell also contributes to the industry institute interaction activities of the institution. The cell was successful enough to place around 96 % of the eligible students in this year

e-Learning

The institute has adopted the e-learning technology and this is used for at least 90% of the courses taught. NPTEL lectures are available for browsing in the library

- **2016 – 17**

Obtained ISO certification

PSVPEC has possessed ISO 2001: 2015 certification to prove that an effective quality management system is employed to ensure and maintain the quality of process and product as well as to continual improvement

- **2017 – 18**

Industries interaction / collaboration

PSVPEC has taken all initiatives to prepare the students to suit the industrial environment in parallel to the improvement in subject knowledge. In coordination with IQAC, MOUs are being executed with the various industries to enable the students to get all the technical assistance in the subjects as well as project works to enhance the quality of the students.

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Number of gender equity promotion programs organized by the institution during the last five years

Response: 13

7.1.1.1 Number of gender equity promotion programs organized by the institution year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
4	3	2	3	1

File Description	Document
Report of the event	View Document
List of gender equity promotion programs organized by the institution	View Document

7.1.2

1. Institution shows gender sensitivity in providing facilities such as:
  1. Safety and Security
  2. Counselling
  3. Common Room

Response:

The Institution strives to promote equality of opportunity and treatment for all men and women working and studying at the College. The college aims to foster an environment in which women folks are treated equally and considered as a major asset for the Institution.

Safety and Security: PSVPEC works to enhance the level of security on campus to provide a safe and a secure environment for students, faculty, staff and visitors. The following facilities are provided for safe environment for the women folks.

- 24x7 hrs security available in the campus and women security are also available in the ladies hostels to ensure safety of women
- Full college campus and hostels are under the surveillance of CCTV Camera
- Women Floor supervisors' availability in all the floors of each block
- Lab instructors will be available at all laboratories
- Hostel wardon is available for 24 hours at the girls hostel to take care of the students
- One faculty is appointed as bus in-charge for each bus and they ensure the safe and secure travel of

the girls students in the bus.

*

The college accords high priority to the counseling process. The students are linked to the faculty advisor in the first year itself. The faculty advisor takes care of the students and identifies his strength and weakness and monitors his / her activities in the college. Counseling is used to provide timely help to girls students having emotional, behavioral, academic, social or other adjustment concerns. Although the teacher-student bonds at PSVPEC are very strong, mentoring is often not enough and professional quality mental health interventions are often necessary to help certain problems of the students.

Counseling and Guidance Centre: The college has established a Counseling Centre on the campus. Its mission is to enhance student wellbeing and offer them a meaningful and successful college experience. This centre has special focus for girls students and women faculty and helping them evolve as confident and well-adjusted young women capable of handling any situation. All services are provided in a strictly confidential and professional atmosphere.

Common room: The college has two common rooms – one for the girls and the other for the boys. The following facilities are made available in the girls common room.

* Cots to take rest if they are unwell
* Sanitary napkins
* First aid kits
* Availability of newspapers and journals
* Tea and biscuits for needy
* Study space with table and chair
* A female attender is attached to the common room to cater to the small needs of the students.
* Two Faculty members remain in charge of the common rooms

Other gender sensitivity initiatives

* Equal opportunities for career growth and self-development are provided for the faculty members irrespective of their gender.
* Womens' grievance redressal committee is constituted to address the issues faced by girl students and women faculty
* Women's Day is celebrated with great enthusiasm with girl students and lady staff members every year.
* Important ritual festivals for women like Varalakshmi pooja, Aavani avittam, Golu pooja etc. are considered to be important and relaxation is given on start time of the college on those specific days.
* Several motivational programmes and personality development programmes are arranged to educate the students on social / gender issues.
* The institution comprises of nearly 82 percentage of female staffs. The Secretary of the institution is also more approachable and friendly in understanding and solving womenfolk grievances.
* The following programs are organised every year to empower women through the Women Empowerment Cell:

1. Women mentoring program
2. Advancing women's research success program
3. Academic promotion information sessions for women
4. Gender equity and the future of design
5. International Women's day

File Description	Document
Any additional information	View Document

7.1.3 Alternate Energy initiatives such as:

1. **Percentage of annual power requirement of the Institution met by the renewable energy sources**

Response: 4.71

7.1.3.1 Annual power requirement met by the renewable energy sources (in KWH)

Response: 4

7.1.3.2 Total annual power requirement (in KWH)

Response: 85

File Description	Document
Any additional information	View Document
Details of power requirement of the Institution met by renewable energy sources	View Document

7.1.4 Percentage of annual lighting power requirements met through LED bulbs

Response: 40.69

7.1.4.1 Annual lighting power requirement met through LED bulbs (in KWH)

Response: 10.923

7.1.4.2 Annual lighting power requirement (in KWH)

Response: 26.843

File Description	Document
Details of lighting power requirements met through LED bulbs	View Document

7.1.5 Waste Management steps including:
- **Solid waste management**
- **Liquid waste management**
- **E-waste management**

Response:

Solid waste management

1. Proper solid-waste collection centre is made available in the campus.
2. Biodegradable and non-biodegradable waste is seggregated and biodegradable waste is used for compost.
3. The institution has constructed few Vermi-compost pits to utilize the garden wastes and other bio-degradable wastes to produce manure which is used in gardening.
4. Waste from the workshop and the chemistry lab is disposed with due precautions.

Liquid waste management

1. Waste water from canteen, kitchen, bathroom, cloth wash, vessel wash in hostels are treated in individual Leach pits.
2. Reuse of Waste Water to maximum possible extent is done.
3. The RO waste water during filtration is collected and used for gardening.

E-waste management

1. Electronic goods are put to optimum use; the minor repairs are set right by the staff and the Laboratory assistants; and the major repairs, by the professional technicians, and are reused.
2. Bins are set up in college campus to collect e-waste. This helps to create awareness on e-waste among students.
3. Collected E-waste is analyzed and reviewed.
4. E-waste is collected and given to authorized agency for dismantling and recycling as per TNPCB norms.

File Description	Document
Any additional information	View Document

7.1.6 Rain water harvesting structures and utilization in the campus

Response:

4. Rain water harvesting structures and utilization in the campus   (1)

Rooftop rainwater harvesting system is installed in the campus which comprises of pipes to transport rainwater from the roof top and recharge pits to replenish the ground water. 20 collection points with recharge pits are installed in the campus.

There are many water bodies in and around Ponmar in which water is available throughout the year. The college campus has three open wells, which serves the water demand throughout the year. Recharging the ground water aquifer has become important and considering this, the Institution has installed simple but very effective rain water harvesting system in the campus. The objective was to sustain the ground water table which was found to be very effective by the recharge pits.

Utilisation

Artificial recharge to groundwater: The recharge pits installed in the campus allows the rainwater to replenish groundwater by recharging the underground aquifers. Installation of the rain water harvesting system in the campus has increased the water infiltration rate, which was observed through the following:

- No drying up of the three wells in the campus
- No water crisis experienced so far, even when there was water scarcity in nearby areas

File Description	Document
Any additional information	[View Document](#)

7.1.7 Green Practices
- **Students, staff using**
a) **Bicycles**
b) **Public Transport**
c) **Pedestrian friendly roads**
- **Plastic-free campus**
- **Paperless office**
- **Green landscaping with trees and plants**

Response:

The institution being a **'Go Green'** campaign supporter has Pedestrian friendly roads with trees on both sides of the roads inside the campus providing an excellent ambience for learning. Hostel students and staff use 'Bi-Cycles' for transportation within the Campus. Minimal number of students use private transport and maximum number of students use public transport, helping the institution have a pollution free environment. Concessional bus passes are provided for Students using public transport. The virgin

greenery of the campus is maintained by having shady trees, ornamental plants and green grass landscaping.

File Description	Document
Any additional information	View Document

7.1.8 Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years

Response: 1.31

7.1.8.1 Total expenditure on green initiatives and waste management excluding salary component year wise during the last five years(INR in Lakhs)

2016-17	2015-16	2014-15	2013-14	2012-13
15.54	5.33	1.44	6.39	26.32

File Description	Document
Any additional information	View Document
Details of expenditure on green initiatives and waste management during the last five years	View Document
Green audit report	View Document

7.1.9 Differently abled (Divyangjan) Friendliness Resources available in the institution:

1. **Physical facilities**
2. **Provision for lift**
3. **Ramp / Rails**
4. **Braille Software/facilities**
5. **Rest Rooms**
6. **Scribes for examination**
7. **Special skill development for differently abled students**
8. **Any other similar facility (Specify)**

A. 7 and more of the above

B. At least 6 of the above

C. At least 4 of the above

D. At least 2 of the above

Response: B. At least 6 of the above

File Description	Document
Any additional information	[View Document](#)
Resources available in the institution for Divyangjan	[View Document](#)

7.1.10 Number of Specific initiatives to address locational advantages and disadvantages during the last five years

Response: 6

7.1.10.1 Number of specific initiatives to address locational advantages and disadvantages year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	1	2

File Description	Document
Any additional information	[View Document](#)
Number of Specific initiatives to address locational advantages and disadvantages	[View Document](#)

7.1.11 Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)

Response: 7

7.1.11.1 Number of initiatives taken to engage with and contribute to local community year wise during the last five years

2016-17	2015-16	2014-15	2013-14	2012-13
1	1	1	2	2

File Description	Document
Details of initiatives taken to engage with local community during the last five years	<u>View Document</u>
Any additional information	<u>View Document</u>
Report of the event	<u>View Document</u>

7.1.12

Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff

Response: Yes

File Description	Document
Any additional information	<u>View Document</u>
URL to Handbook on code of conduct for students and teachers , manuals and brochures on human values and professional ethics	<u>View Document</u>

7.1.13 Display of core values in the institution and on its website

Response: Yes

File Description	Document
Any additional information	<u>View Document</u>
Provide URL of website that displays core values	<u>View Document</u>

7.1.14 The institution plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations

Response: Yes

File Description	Document
Details of activities organized to increase consciousness about national identities and symbols	<u>View Document</u>
Any additional information	<u>View Document</u>

7.1.15 The institution offers a course on Human Values and professional ethics

Response: Yes

File Description	Document
Any additional information	[View Document](#)

7.1.16 The institution functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions

Response: Yes

File Description	Document
Any additional information	[View Document](#)
Provide URL of supporting documents to prove institution functions as per professional code	[View Document](#)

7.1.17 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years

Response: 21

7.1.17.1 Number of activities conducted for promotion of universal values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties year wise during the last five years

File Description	Document
Any additional information	[View Document](#)
List of activities conducted for promotion of universal values	[View Document](#)

7.1.18 Institution organizes national festivals and birth / death anniversaries of the great Indian personalities

Response:

The institution organizes national festivals like Republic day and Independence day every year to foster patriotism among the students. The death and birth anniversaries of great indian personalities like Dr.A.P.J.Abdul Khalam, Dr.Ambedkar, Jawaharlal Nehru, Swami Viveknanda, Nethaji Subash Chandra Bose, etc,. are organized by the institution. Festivals are celebration to remember the events occurred on that particular day. India is a land of multi-ethnicity where people of different languages and cultures live together with peace and harmony. India is worldwide known for its cultural diversity and colorful festivals. National integration indicates the feeling of common identity amongst the people of country even after being from different races, cultures, religions or regions in order to build a strong and developed nation. It promotes the unity in diversity and feeling of oneness amongst people to a great level. It brings a type of

racial and cultural similarity among people of different community

File Description	Document
Any additional information	[View Document](#)

7.1.19 The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Response:

Yes, The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions

Role of PSVPEC in inculcation of human values and professional ethics in students, faculty and society

The prime concern of education is to evolve the good, the true and the divine in man so as to establish a moral life in the world. It should essentially make a man **disciplined, kind and lovable and truthful**. What we need today more than anything else is moral leadership founded on courage, intellectual integrity and a sense of values. Since education is a powerful instrument of social change and human progress, it is also a powerful tool to cultivate values in an individual. Therefore, PSVPEC takes the greater responsibility to impart learning and cultivation of values through education.

For inculcating **values in students, faculty and society** we have taken efforts such as:

- Provision of value based curriculum-Course on human Values and ethics
- Designing special orientation program for teachers
- Value based foundation courses
- Develop and practice code of conduct for teachers and students
- Inculcation of philosophical view towards life among teachers and students.
- Extension services for the society

Value Education and PSVPEC

Value education is rooted in PSVPEC since the day of inauguration of the institution. The institution has initiated several ways to make value education more effective.

*Firstly***:** The moral awareness is created among students to orient their progress in science & technology towards the welfare of mankind. This is done through introducing a value added course on "**Human values and professional ethics"**

Secondly: Shared core values are educated to the members of the institution through displaying the core values in the college campus and in the website.

*Thirdly: T*eachers pass values to the students both consciously and unconsciously through their conduct in

and out of class rooms. Therefore, the need for a consciously planned value education program is obvious to establish a formal learning. For the teachers to practice values and ethics, short term courses on Human values are organised periodically.

Fourthly: Students might face more complicated situations about issues involving values. They should be helped in developing the ability to make proper choices in such situations through value education. To address this, the institution follows the Mentor system of guidance to the students, which will help them to understand the problem and take ethically sound decisions.

Fifthly: Increase in Juvenile delinquency is a crisis to youth who under goes the process of personal growth. In such situation, imparting ethical values through value education assumes a special significance in the students.

Value Education through extension activities

College is the basic stage in the process of socialisation and value education takes place highly at college level as the students are exposed to friends, teachers, syllabus and various extra-curricular activities. Further, values cannot be taught like abstract subjects like English, Science or Mathematics. However, they can be inculcated only through situations deliberately planned while teaching the subjects.

For example,

National Movement can be taught in such a way that it leads to inculcate the values of patriotism, secularism, universal love and tolerance etc. This is inculcated in students by celebrating Independence day and Republic day every year. Students participate actively to show their love for the country.

Unity and team work is promoted among students and teachers through celebrating Nethaji Subash Chandra Bose's birthday as unity day.

Womens' day celebrations: Men are also actively involved in Women's day celebrations, which preaches men that there is an important role for men in women's equality.

Extension activities: These activities are been done through the various committees and clubs in the institution. Students and staffs are involved in the activities like village cleaning, computer training for school students, blood donations, tree plantation camps, health camps, etc. These activities make us more responsible towards the society and nation.

Thus the institution strives to practice human values and professional ethics in students, faculty and society as a way of life.

7.2 Best Practices

7.2.1 Describe at least two institutional best practices (as per NAAC Format)

Response:

Best Practice - 1

Title: Participation of Male students in Women Empowerment Cell (WEC) Activities along with Women

Goals:

- To create awareness among the male students regarding the development of women.
- To enable the college community understand the role of men in empowering women students.

The Context

When men lean in, everyone wins—starting with men themselves. Children with involved fathers are happier, healthier, and more successful. Men who support women at work outperform their peers. The Women empowerment cell of PSVPEC emphasizes that men must take joint responsibility with women for the promotion of gender equality and recognized that men and boys can and do make contributions to gender equality in their many capacities, and in all spheres of society.

The Practice

The Women Development Cell, since its inception, organizes various activities incorporating male, female students and faculty members. The members of the Cell are a mixture of male and female staff and student members. Almost all our activities consist of male students? participation. Discussions on gender equality, education on women empowerment in classrooms promotes positive role models, are significant in promoting greater contribution of men and boys to women empowerment.

Evidence of Success

- Institute is free of sexual harassment, mainly due to the commitment of the male community. They also maintain an environment that fosters appropriate and respectful behavior and cooperative interactions among female students.
- PSVPEC is completely a ragging free institute.
- Empowering women and increasing male involvement in the activities conducted by WEC has increased year on year.
- Institute's Alumni Association President is a female, who has been elected by the voting of alumni's comprising a large number the male students.
- Students learn to communicate properly with each other and enhance shared decision making in solving problems and shaping direction.
- The functional WEC which comprises male and female students is in fact a great step towards women development and gender equality.

Problems Encountered and Resources Requirements

Though the participation of the students in the activities conducted across the streams surprised the spectators around, due to the constraints of time and routine academic compulsions, the institution had problems in taking up more activities and at times, in maintaining a proper and sustained follow-up of the work that it had been doing. Hence, it becomes challenging to identify free time-slots for large groups of students to participate.

Best Practices – 2

Title: Promotion of Research

Objectives of the Practice

1. To encourage the faculty and students to take up research studies.
2. To acquire guideship to produce more research scholars
3. To motivate the faculty to apply for the major and minor research projects by providing guidelines and details of funding agencies
4. To fulfill the requirements to promote the research departments into research centres
5. To collaborate with other institutions and universities in and abroad
6. To arrange for interface among the institutions, industries and the public to take up research projects relevant for the present day
7. To encourage the faculty and the students to organize and present research papers in the national / international seminars / conferences / workshops
8. To publish quality research articles in reputed journals, edit study materials for the prescribed syllabus and author books of high originality
9. To take steps for publishing a Research Journal

The Context

Since constant updating of the subject is very essential to try the untrodden paths, the teaching staff of the college are highly conscious of quality enhancement and quality sustenance on par with the progress of technology. The College generates knowledge for dissemination and so its main focus is on quality research. It has created a research ambience through strengthening infrastructure facilities, motivating staff members and guiding them to acquire grants from the funding agencies to launch on research undertakings - pursuing Ph.D., taking up minor or major research projects, guiding research scholars and publishing research papers and books.

The Practice

The institution provides opportunities to the faculty to do Ph. D. under Part Time research privately. The College also motivates for doing major and minor projects through UGC and other funding agencies. A Research Committee under the Chairmanship of the Principal actively involves in promoting research culture among the staff and students in the campus. It sets the target for achievement in the action plan presented and submitted in the Planning and Evaluation Committee meeting every year. The attainment of the target is reviewed at the end of the academic year.

Support facilities for research

- Special consideration in the form of leave is given to the staff who are on the verge of completing their research work.
- The visits to various Universities and libraries for data collection have enriched their research.
- The management extends co-operation to the staff to attend conferences for paper presentation and send proposals to UGC to avail travel grant.
- Rewards of teachers are based on their achievements in research.

Evidence of Success

The achievements in the field of research are the main indicators of excellence in research practiced at the college.

- A good number of staff have availed the opportunities for presenting papers and publishing articles and books.
- 9 Major Research Projects are undertaken during the year 2016-2017.
- Final year UG and PG students undertake mandatory and funded, individual and group projects.
- Publication of research papers in reputed journals with high impact factor evinces the keen interest of the faculty in research. More than 450 research papers have been published by our Faculty and students.

Problems Encountered

- Lack of interest of students in research. Workshops on project work and research methodology were conducted to encourage students to take up research activities
- Lack of required knowledge among faculties to take up research activities. Refresher Courses were conducted for teachers to take up research projects. Conferences and seminars were organized for the teachers and the students to create awareness of the requirements for research - preparation of proposals, various funding agencies etc.

File Description	Document
Any additional information	[View Document](#)

7.3 Institutional Distinctiveness

7.3.1 Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Response:

Vision: To be a world class prominent institution for technical education and research to meet the global challenges and demand for societal needs.

PSVPEC is well known for its academic excellence and dedicated approach towards imparting education in Engineering and Technology at under graduate levels. The College appreciates the role of research in education and is committed to developing an inclination towards research amongst both faculty and students alike. The Institution does not have a recognized research center of any affiliating University. However, after the initiation of Internal Quality Assurance System in June 2015, the College undertook a unique initiative by means of setting up 'Research Cell' under which, the students and the faculty members are encouraged to promote research activities.

A. Research committee and objectives

Objectives of research committee:

1. To create a conducive environment for promotion of Research & Innovation activities in the institute.
2. To encourage faculty members and students to apply for Major, Minor Research Projects, Design and innovation Centres, etc.
3. To ensure smooth functioning and effective Management of Research & Innovation activities at the institute.
4. To promote collaborative research.
5. To strengthen industry – institute interaction by promoting consultancy, testing and need based research & innovation activities in the institute

Research Committee:

Dr. T. Soundararajan	Principal
Dr. K. K. Senthilkumar	Convener
Mr. K. Senthilkumar	Co-Convener
Dr. S. Subburam	Member
Dr. G. Indira	Member
Dr. Sharmilla P	Member
Dr. K Meena	Member
Mr. P. Ashok	Member
Mrs. P. Veeralakshmi	Member
Mrs. S. Kavitha Karthikeyan	Member
Mr. G. Sathi	Member

B. Research facilities available to the students and Faculty within the campus

Since research was one of the thrust areas in perspective plan 2016 – 2020, the Management enhanced the existing facilities to research level and encouraged the staffs and students to avail the facilities and promote research culture.

- A well-stocked library having a vast collection of books, national & international journals, magazines and newspapers, two reading halls with large seating capacity, access to e-resources provided by DELNET, remote access to e-publication through DELNET etc.
- Reprography facility provided in library for extracting relevant literature on their research areas.
- Access to Laboratories and access to plagiarism detection software.
- Computer Labs equipped with sufficient number of computers, softwares, databases and internet facility.
- One Resource Centre encompassing various equipments for research.
- A state-of-the-art Conference halls and smart classrooms primarily meant for conducting workshops, seminars and special lectures.

C. Measures taken by the institution to facilitate smooth progress and implementation of research

The College constantly encourages its members to undertake research schemes or projects in addition to their teaching responsibilities. To ensure adequate support to the investigator in terms of financial assistance, the College guides and cooperates with the investigator in respect to the procedure of approaching various funding agencies. The College ensures that the resources are released on time along with the timely submission of the utilization certificate by the investigator. Also, the College provides for world-class infrastructure facilities in terms of well-equipped library, resource center, Wi-Fi enabled campus, access to various information resources and research engines. Financial assistance is also extended for organizing and/or participating in conferences/ seminars/ workshops/ training programs and paper presentations.

D. Efforts made by the institution in developing scientific temper and research culture and attitude among students

The College makes various efforts on continual basis to foster research culture among students.

1. The College organizes several conferences, seminars, workshops and special lectures to make students abreast with the latest developments in the field of and research. This increases students' horizons towards research and related areas.
2. Students are also motivated to pursue inter-disciplinary research under the able guidance of faculty members through a programme called 'Innovative Projects'. Every year best innovative project award is awarded to the best project.
3. The faculty members encourage students to develop technological solutions to problems. The faculty engage students in group discussions and students are sensitized towards various current issues.
4. The project work undertaken by the students at the under graduate level is ably mentored. The student-mentor interactions take place on weekly basis and insights are provided with regard to the various dimensions of research work viz. literature review, statistical techniques etc.
5. Industrial visits are also arranged to various research centres to enhance the research activities

E. Example of few research projects

Name of Principal Investigator	Duration of project	Name of the research project	Year of sanctio
Ms. Kavitha Karthikeyan, Assistant Professor, Department of Civil Engineering.	2 years	Control system asphaultic drum mix plant	2016-2017
Ms. Reena, Head of the Department, Department of Computer Science and Engineering.	2 years	Development of SBC for ATC and Data acquiring System	2016-2017
Dr. K. K. Senthilkumar, Head of the Department, Department of Electronics and Engineering.	2.5 years	Green Radio Technology for Power Control	2016-2017
Dr. K. K. Senthilkumar, Head of the Department, Department of Electronics and Communication Engineering.	2.5 years	Embedded development Tool for Hardware Interface	2016-2017
Dr. G. Indira,	2 years	Demand based online analysis of	2016-2017

Head of the Department, Department of Electricaland Electronics Engineering.		Transformer in distribution area		
Dr. P. Veeralakshmi, Head of the Department, Department of Information Technology.	2 years	IOT based gestation monitroing and data acquiring system	2016-2017	
Mr. T Vijayaraj, Assistant Professor Department of Mechanical Engineering.	2.5 years	Dual windmill for Highway power generation	2016-2017	
Mr. G. Sathi, Head of the Department, Department of Mechanical Engineering.	2.5 years	INFRARED FURNACE for high speed heating with energy management system	2016-2017	

F. Efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students.

PSVPEC has always occupied the center stage not only for its academic excellence, but also for having speakers and researchers of eminence, grace the campus for prolific interaction with students and teachers. A number of events are organized by the College under different formats including seminars, conferences and workshops to extend learning beyond the curriculum.

G. Initiatives taken up by the institution in publishing the findings of research

The faculty members & students of the College are continuously encouraged to undertake research in the emerging areas of academic and social relevance. Also, the College provides a platform for the dissemination of their research findings on various forums, including-

- Publication of research work in reputed journals

- The institution has also launched its own online journal to establish the findings of its students and staffs
- The members of the institution - teachers and students alike are encouraged to participate and present their research work in the various conferences & seminars organized by the institution from time to time.

Details on publications

S.no	Publication type	Numb

1	Publication per faculty	4-6
2	Total no. of Publication by faculty and students	550
3	No. of papers published in peer reviewed journals (national / international) by faculty	450
4	Number of publications listed in International Database (For e.g.: Web of Science, Scopus, Humanities International Complete, etc.)	46
5	Books with ISBN/ISSN numbers	3

File Description	Document
Any additional information	View Document

5. CONCLUSION

Additional Information :

At Prince Shri Venkateshwara Padmavathy Engineering College, we inculcate disciplined, self-development, character formation, confidence and promotion of universal brotherhood in the minds of the students. We always believe that focused hardwork is the real key to success.

By building people, we build society. By building leaders, we build the nation's technology and economy. Technical education is, in effect, a nation's service. At Prince, we believe only a well-disciplined, value-added students to become the high-profiled professionals.

Our institution endows halcyon atmosphere for the students, qualified and experienced faculty members, well-stocked library and fully equipped laboratories. We accolade the students for their new innovations to encourage them. To get out the best in the students, our faculty strives hard to bring out their hidden talents. We even expose the student to outside world in the form of participation in completion, seminars, workshops and industrial visits.

Concluding Remarks :

Considering the impact of globalization and competitive world, PSVPEC faculty and staff are trained on a continuous basis in curriculum development and analysis of each subject, its concepts, principles and applications. In this competitive world of technological development and rapid advancement, a paranormal change is needed in education.

FUTURE PLANS

1.To Setup a central research and Innovation centre and make the campus as a central Hub for Innovative Research activities

2.To get Autonomous status

3.To have collobarative Research arrangement with Industries /Govt R&D organisations

4.To establish Technology Business Incubato(TBI)

5.To have more number of MoU wwith Foreign/National universities /Industries for getting visiting professors