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MAHATMA EDUCATION SOCIETY'S

PILLAI COLLEGE OF ENGINEERING

Approved by AICTE, DTE, Government of Maharashtra and Affiliated to University of Mumbai
(Re-Accredited by National Board of Accreditation)



Dr. K.M. Vasudevan Pillai Campus, Sector 16, New Panvel, Navi Mumbai - 410206. Maharashtra India
Tel: 27451700 / 6100 / 2745 6030 / 2748 3207. Fax: 2748 3208. Website: www.pce.ac.in, e-mail: principalpce@mes.ac.in

Perspective Plan 2019-2024

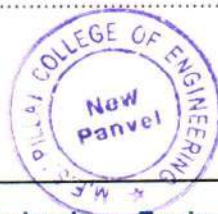
May 2019

Preface

Acknowledgement

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Process of Creating the Plan

In the past 20 years PCE has generally made perspective plans every five years. Starting in 2004, every five years the Principal along with the heads of departments and management representatives have created a plan that looked back at the challenges that the institute faced, its strengths and weakness and defined its goals and strategies. In 2019, the institute has completed 20 years and it has been decided that a more comprehensive and detailed plan is required. The IQAC constituted a subcommittee to prepare this took in inputs from students, alumni, faculty, staff, industry partners and prominent academicians. In view of this, the IQAC in charge of this plan spoke to over hundred people and began to formulate this plan.

Acknowledgements

The IQAC would like to acknowledge the valuable feedback of the following eminent entrepreneurs, academicians, industry partners and alumni. In addition, the committee also acknowledges the feedback received from current faculty and students regarding the plan.

Dr Bernard Menezes, Professor IIT Bombay

Dr Ram Chandra Prasad, Professor IIT Bombay (Rtd)

Dr Mathew Thekkekarottu Joseph, Professor SNDT Womens University (Rtd)

Mr Charu Dutt Sharma, CEO Crededge

Ms. Surabhi Rao, Director and Head - Product Development Narsipur Chemicals Pvt. Ltd

Dr Vilas G Gaikar, Professor ICT Mumbai

Mr Bhavesh Kothari, Co Founder & Chief Business Officer Billennium Divas Fund

Dr Amit Datta, AICTE Regional Officer

Theme of the Plan

Empowering Stakeholders via

- Student and Faculty Centric Approaches
- Impact Making Research
- Support Industries through Placement and Consultancy
- Building Local Communities
- Automation of Administration





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Who are we?

Mission

To develop professional engineers with respect for the environment and make them responsible citizens, both from a local and global perspective. This objective is fulfilled through quality education, practical training, research, entrepreneurship and interaction with industries and social organizations

Vision

Pillai College of Engineering (PCE) will admit, educate and train in technology, a diverse population of students who are academically prepared to benefit from the Institute's infrastructure and faculty experience, to become responsible professionals. It will further attract, develop and retain, dedicated, excellent teachers, scholars, scientists and professionals from diverse backgrounds whose work gives them visibility beyond the classroom and who are committed to making a significant impact in the lives of their students and the community.

Goals

Inline to the institute's vision of making responsible technical professional with the help of trained and dedicated teachers, PCE has taken numerous initiatives to develop both students and faculty. The institute takes a 360 degree view of the development of itself and all its stakeholders. We have articulated broad institutional goals such as

1. Empowerment of its stakeholders (Faculty, students, employers, alumni)
2. Increased Industry interactions through training, placement and consultancy
3. Conducting impact making research through its research centers and encouraging technology transfer
4. Creating social, moral, environmental awareness by following best practices such as recycling, using renewable sources of energy, value education, community service, etc.
5. Automation of its administrative processes so that faculty and students can focus on teaching, learning and research





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Stakeholders Expectations

Students

- Better Placement Opportunities
- More opportunities for internships and experiential learning
- Guidance for Higher Education and Alternate Career paths
- Fewer assignments and contact hours
- More guidance on finding jobs on your own
- More interactions between senior and junior students
- More specific domain oriented clubs, boot camps, projects, hackathons

Faculty

- Implementation of 7th Pay Commission
- Academic Freedom
- More incentives for research
- Less administrative paperwork

Parents

- Better Placement Opportunities
- Soft skills and time management training for wards

Industry

- More joint projects of relevance
- Partner with MSMEs
- Improve students technical and communication skills
- Improve leadership and project management skills among students





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Management

- Academic Autonomy
- Fiscal Sustainability
- Building the institutes national and global brand

Where are we?

Geography

PCE is located in New Panvel, part of Navi Mumbai a city established by the Government of Maharashtra in 1972. PCE has grown along with Navi Mumbai since its establishment in 1999 till date. Due to it being part of a city, PCE has many advantages

- Access to large and young population of Mumbai, Navi Mumbai and Raigad Districts
- PCE is near Panvel Railway station which is accessible via Mumbai suburban trains.
- The Navi Mumbai International Airport (billed to be the largest airport in India) is coming up less than 10 km from the college.
- Navi Mumbai is planned by CIDCO and has a full-fledged municipality which ensures that basic amenities such as electricity, water, sewage treatment, road access, etc., are available.
- PCE is also nearby various industrial areas such as Taloja Industrial Park, Patalganga Industrial Area and Khopoli Industrial Area which have huge potential for numerous industrial tie ups.
- It is surrounded by CIDCO gardens and parks which give the campus a serene feel

The institute has some disadvantages due to its location as well

- Not being in Mumbai, PCE does not have continuous power supply so has to invest in diesel generators and UPS to supply electricity to the college.
- It is on the last stop of Mumbai suburban local line so some students and faculty have to commute long distances (45min-1hr) to reach the college.





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University of Mumbai

PCE is an affiliated college of the University of Mumbai which was established in 1857. The university designs the courses and curriculum, conducts examinations and grants degrees to PCE students. PCE is one of 787 colleges spread over 10 districts of Maharashtra, one in Goa and one in Silvassa. University of Mumbai brings tremendous brand value to PCE, but it leaves little option to the institute's faculty in terms of development of curriculum and flexibility of courses, examinations and schedules. The administrative burden of the University also increases day by day due to the sheer number of colleges affiliated to it. This results in long delays in examination result declaration, approval of faculty, changes in the course syllabi and other routine administrative tasks.

Regulatory Environment

PCE is regulated in numerous local, state and national level bodies. Their roles and scope of regulation are given below.

AICTE

AICTE is the apex regulator of technical education in India. It governs nearly all aspects of engineering and technical education. It frames norms for land, building, infrastructure, faculty strength and minimum qualifications, faculty salaries, change of courses and intake. It conducts institutional inspections from time to time and applications for approval must be made every year.

University of Mumbai

The University of Mumbai is the affiliating body that grants degrees to the students of PCE. It also conducts inspections for affiliation of various courses. In addition to verifying AICTE norms it also approves faculty, admission merit lists, develops curriculum, and conducts examinations. It conducts institutional inspections every year and applications for approval must be made every year.

Directorate of Technical Education

DTE regulates institutional compliance with various state level acts and norms. Its approval is required for establishment of new courses or change in intake as well as to take part in the admission process. Approval is needed every year.





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Admission Regulatory Authority

Regulates all aspects with regard to admissions. It conducts the Centralized Admission Process which must be followed by all affiliated colleges and it approves the merit list. Approval is needed every year.

Fee Regulating Authority

Fixes the tuition and development fees of the institute. Approval is needed every year.

CIDCO/Panvel Municipal Corporation

Frames norms for land, buildings, infrastructure, safety and compliance with various building rules and regulations. Conducts inspections from time to time.

State of Maharashtra, Social Welfare Department

Roughly 25% to 40% of students of PCE receive scholarships from the Government of Maharashtra. This is regulated by the Social Welfare department and PCE needs to remain compliant with its procedures. Conducts inspections from time to time.

State of Maharashtra, Ministry of Minority Affairs

As a minority institute, PCE comes under the jurisdiction of the Ministry of Minority Affairs. The Board of Trustees, the admissions are governed under this ministry.

UGC

The UGC does not directly govern PCE. It does frame norms that are applicable to PCE through the University of Mumbai. It also distributes grants under different schemes of the Government. When PCE becomes autonomous, the UGC will inspect the institute every 10 years.

NBA and NAAC

NBA and NAAC are the quality auditors of the institute. They ensure that the institute meets minimum standards relevant to the quality of teaching and learning as well as various-processes of the institute. NBA inspects programmes to be accredited every 3 years and NAAC inspects the institute every 5 years.





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Our Competition

Affiliated Colleges

The Mumbai region has 65 colleges of technology offering BE, ME and PhD programmes across 4 districts. All of these colleges offer the courses by the University of Mumbai and have around 26363 seats. This is over capacity as there are not enough students in Mumbai to fill all the seats. Colleges in the outskirts of Mumbai fill up only 10-20% of their seats in the first year and the rest go vacant. Additional seats are filled through lateral entry. However, many branches such as Electronics Engineering have seen a decline in popularity and do not fill up after the second year. These institutes compete directly with PCE for students and faculty. However, due to its quality and reputation PCE has been able to maintain its undergraduate enrollment over 80% in the past few years. With many popular courses such as Computer Engineering, Mechanical Engineering, Information Technology having 100% enrollment outperforming many of the other colleges of the University of Mumbai.

Private Universities

In addition, in the past couple of years 3-4 private Universities have come up in Navi Mumbai and Mumbai. These Universities currently do not compete with PCE for students even though they offer similar courses. Many are new and have currently not gained wide popularity among students and parents. There are also some new Universities in the pipeline such as Jio University that may compete with PCE in the future.

Government Aided Universities and Colleges

Government Aided institutes such as IIT Bombay, ICT, VJTI are widely popular among students as they are older and well established. They also have lower fees and are in central locations. In general, students prefer these institutes to PCE but the admission process is highly competitive.

How did we get here?

Brief History of the Institute

PCE was founded in 1999 by Dr. K.M. Vasudevan Pillai a world-renowned academician. It admitted its first batch of students in 2000. It was built on the border of Navi Mumbai and Raigad district in the New Panvel Node of CIDCO. At the time, the area was sparsely populated with no railway access. However, it was right next to Old Panvel which is considered one of the oldest metros in India having been established since the time of Chatrapati Shivaji Maharaj and is part of the Mumbai Metropolitan Region. Over time this area has developed into a bustling metropolis with good social, cultural and environmental ambience.



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Clean, green and sustainable campus has been important in the development of PCE. The campus has regular tree plantation drives, recycling programs, rain water harvesting, solar panels and many other green initiatives.



February 2003



February 2019

The Satellite image above shows the campus in 2003 and in 2019 showing clearly the increase in tree coverage and the roof top solar panels. PCE started with 3 branches viz., Computer Engineering, Information Technology and Electronics Engineering. In the past 20 years it has steadily grown and currently has 6 UG programmes, 4 PG programmes and 3 PhD programmes as well as numerous add-on and certificate courses.





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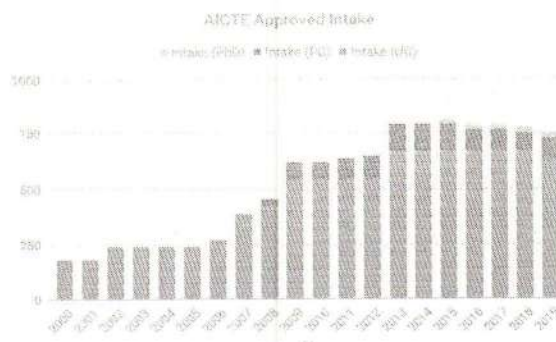
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Key Metrics

Intake and Enrollment

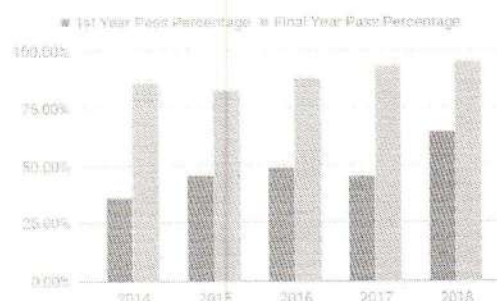
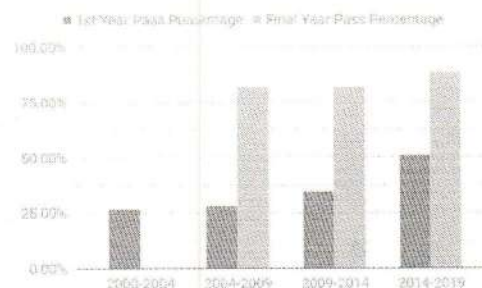
The student intake capacity of PCE has increased over the past 20 years (See Chart) and currently stands at 630 UG, 90 PG and 30 PhD. In the past few years the institute has been able to fill up 80%-90% of its intake capacity of UG courses. During the past few years, Electronics Engineering has become less popular and Computer and IT have become more popular. This mirrors the perception of the job and career scenario in India, where most graduates believe that the job prospects are better in Computer and IT fields. The Institute's PG and PhD intake and enrollment has also picked up in the past few years due to its continuous efforts in research and development.



Results

PCE reviews its first year and final examination results every year and tracks the progress of its students. The pass percentage represents the number of students who have cleared the examinations in the first attempt. In general, PCE students have performed better and better over the

course of the past few years. The institute's first year pass percentage now exceeds 60% whereas the University of Mumbai has an average 45% pass percentage. The improved results can be attributed to the institute's best practices of Project Based Learning, study camps, prelims, e-learning approaches, etc.





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Alumni

PCE needs its alumni to be its brand ambassadors. Currently, annual events are conducted for alumni by the college. However, it is necessary to have a more active alumni organization which plans and conducts alumni oriented events all over the world.

Technology Transfer

Some of the faculty members of PCE have patents based on their research work. It is necessary that PCE develops a robust IP cell as well as establish an 'IPR fund' that would fund promising patents developed by the faculty and students. There should also be a focus on commercializing the IP generated by the institute.

Societal Impact

It is necessary for PCE students, faculty and alumni develop an overall sense of giving back to the community.

Automation of Processes

Day by day, the compliance burden on the institute increases. Faculty is bogged down with administrative documentation and paperwork. Due to numerous regulators and various compliances it is desirable that a robust automated system is developed to reduce the administrative burden on faculty.

SWOC Analysis

Strengths <ul style="list-style-type: none"> • Student and Faculty Centered Approach • Research and Consultancy • Automation of Institute Processes • Project Based Learning • Centers of Excellence • Entrepreneurship Center • Qualified and motivated faculty with PhD 	Weakness <ul style="list-style-type: none"> • Technology transfer IPR and Patents • Alumni Engagement with College • Lack of flexibility and industry participation in UoM curriculum
Opportunities <ul style="list-style-type: none"> • New city development • Navi Mumbai International Airport • Autonomous status • Social Service in local communities 	Challenges <ul style="list-style-type: none"> • Unpredictable placements • Inconsistent Admission Scenario • Continuous changing of rules and regulations of statutory bodies



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Strategic Goals and Implementation Plan

Goal 1: Improve Teaching Learning

1. More Industry Involvement in curriculum development
2. Regular External Academic Audits
3. More Add-On/Certificate/Skill Development courses to be offered to students
4. Additional content on Institute's E-Learning Portal and encouragement of MOOCs and NPTEL
5. Increase utilization of E-resources in the library

Implementation Plan

Strategic Goal	2019-20	2020-21	2021-22	2022-23	2023-2024
Industry Involvement in Curriculum Development	Establish ad-hoc BoS for each department including industry experts	Implement add on courses prior to academic autonomy	Implement reformed curriculum with academic autonomy		
External Academic Audit	Academic Audit of ETRX and EXTC Departments	Academic Audit of Mech and Auto Departments	Academic Audit of Comp and IT Departments	Academic Audit of ETRX and EXTC Departments	Academic Audit of Mech and Auto Departments
Add on Courses	20	30	50	50	50
Student certifications from NPTEL/edX, etc.	500	750	1000	1000	1000
Library E-Resources	Include literature review in curriculum in FE-PBL	Mandate use of institute E-resources for PG and PhD students		Review effectiveness of new policies	





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Goal 2: Increase Research Impact

1. Start four new Centers of Excellence in Polymer Science, Web Data Mining and Cyber Security, Solar Radiation Data Center
2. Start PhD Center in Electronics Engineering
3. Encourage publications in quality journals

Implementation Plan

Strategic Goal	2019-20	2020-21	2021-22	2022-23	2023-2024
New Centers of Excellence	Appoint faculty in charge of new centers of excellence	Make budgetary provisions for each Center	Review and Monitor Progress of each center	Review and Monitor Progress of each center	Review and Monitor Progress of each center
PhD Center in Electronics Engineering	Apply to University of Mumbai for PhD center in Electronics Engineering	Start PhD course in Electronics Engineering	Review and Monitor Progress of center	Review and Monitor Progress of center	Review and Monitor Progress of center
Publications in Quality Journals	10 publications in high impact factor journals	20 publications in high impact factor journals	30 publications in high impact factor journals	30 publications in high impact factor journals	30 publications in high impact factor journals





Goal 3: Improve Training and Placement

1. Have job offers to 100% of graduating final year students
2. Have faculty develop industry relevant case studies for each course being taught
3. 100% of students to be engaged in internships during the 4 years

Strategic Goal	2019-20	2020-21	2021-22	2022-23	2023-2024
Job offers for 100% of final year students	50%	60%	75%	95%	100%
Industry relevant case studies for each course	10% of Courses	25% of Courses	50% of Courses	75% of Courses	100% of Courses
100% of Students engaged in internships	40% of Students	50% of Students	75% of Students	90% of Students	100% of Students

Goal 4: Technology Transfer to Industry

1. Increase IPR and Patents generated by the institute
2. Partner with Industries for student/research projects
3. Establish MOUs with Industries for technology IP sharing

Implementation Plan

Strategic Goal	2019-20	2020-21	2021-22	2022-23	2023-2024
Increase IPR and Patents generated by the institute	Establish IP committee to review patents submitted by faculty. Make budgetary provisions	3 patents	5 patents	10 patents	10 patents
Partner with Industries for student/research projects	20 Industry relevant Projects	30 Industry relevant Projects	40 Industry relevant Projects	50 Industry relevant Projects	50 Industry relevant Projects
Establish MOUs with Industries for technology IP sharing	5 IP related MOUs	10 IP related MOUs	10 IP related MOUs	10 IP related MOUs	10 IP related MOUs





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Goal 5: Strengthen Alumni Engagement

1. Encourage all Alumni to follow the college on social media
2. Encourage Alumni to register on MES Alumni Platform
3. Improve PCE social media content
4. Increase the number of alumni events per year

Implementation Plan

Strategic Goal	2019-20	2020-21	2021-22	2022-23	2023-2024
Alumni to follow the college on social media	Share PCE alumni pages widely on social media and institute email lists				
Alumni to register on MES Alumni Platform	Publicize PCE Alumni platform on social media	1000 registrations	1500 registrations	3000 registrations	All Alumni registered
Improve PCE social media content	Appoint more students to monitor and update institute social media	2-4 posts per week on each page	5-10 posts per week	5-10 posts per week	5-10 posts per week
Number of alumni events per year	4	10	10	10	10

Goal 6: Have a greater impact on local community

1. Establish NSS
2. Increase the number of courses that incorporate environment and sustainability
3. Organize hackathons on various socially relevant topics
4. Adopt a local village
5. Organize a river side clean up drive
6. Increase Utilization of Renewable Sources of Energy





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Implementation Plan

Strategic Goal	2019-20	2020-21	2021-22	2022-23	2023-2024
Establish NSS Unit	Apply to University to establish NSS unit	NSS conducts 2 events per year	Review NSS Activities	Review NSS Activities	Review NSS Activities
Number of courses that incorporate environment and sustainability	2	5	5	5	5
Organize hackathons on various socially relevant topics	1	2	2	2	2
Adopt a local village	Identify a local village to adopt and identify projects that the institute can initiate for that village	Initiate one Project	Monitor the implementation of Project 1 and start a new project.	Review effectiveness of new project. Extend further support to village when required	
Organize a river side clean up drive	Organize annual river side clean up drive. Appoint Faculty Coordinator	Organize annual river side clean up drive	Organize annual river side clean up drive	Organize annual river side clean up drive	Organize annual river side clean up drive



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Decrease energy consumption and increase utilization of renewable energy resources	Switching to low energy consuming gadgets/fixtures	Initiate energy audit and identify the possibilities of reduced energy consumption	Enhance the capacity of existing Solar PV plant	Review effectiveness of the steps taken towards the goal
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Goal 7: To become an Autonomous Institute

1. Get NAAC accreditation
2. Get NBA accreditation of non-accredited departments
3. Establish department wise ad-hoc Boards of Studies to evaluate the curriculum
4. Increase stakeholder awareness about Autonomy
5. Apply to UGC for Autonomy

Implementation Plan

Strategic Goal	2019-20	2020-21	2021-22	2022-23	2023-2024
NAAC accreditation	Apply for NAAC accreditation	Become NAAC accredited			
NBA Accreditation	3	4	6	6	6
Department wise ad-hoc Boards of Studies	Establish Department wise ad-hoc Boards of studies	Review functioning of Boards of Studies	Convert ad-hoc BoS into BoS	Review functioning of Boards of Studies	Review functioning of Boards of Studies
Stakeholder Awareness about Autonomy	Conduct 3-4 workshops on autonomy	Incorporate Autonomy related information on website	-	-	-
Apply to UGC for Autonomy	Preparation for Autonomy	Apply to UGC	Become Autonomous Institute		



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Goal 8: Augment Institutional Income

1. Rent out facilities (classrooms, labs) to various Government and Private bodies for the conduct of examinations during holidays
2. Increase the amount of consultancy to the institute

Implementation Plan

Strategic Goal	2019-20	2020-21	2021-22	2022-23	2023-2024
Rent out facilities (classrooms, labs)	Identify facilities that can be rented out such as computer labs, seminar halls etc	Advertise the availability of resources to various agencies and companies	No of rentals days 30	No of rentals days 50	No of rentals days 100
No of Consulting Projects	20	40	60	80	100

Goal 9: Introduce 7th Pay Commission

1. Conduct financial analysis of the impact of 7th pay commission
2. Apply for increase in student fees

Implementation Plan

Strategic Goal	2019-20	2020-21	2021-22	2022-23	2023-2024
Financial analysis of the impact of 7 th pay commission	Financial Analysis and Budgetary Provisions	Implement 7 th Pay Commission			
Increase in Student Fees	Apply for Increase in approved student fees	Apply for Increase in approved student fees	Apply for Increase in approved student fees	Apply for Increase in approved student fees	





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Goal 10: Automate More Administrative Tasks

1. Automate tracking of NAAC and NBA related documentation
2. Further upgrade Mentor and Mentee Portal (ASK Portal)

Implementation Plan

Strategic Goal	2019-20	2020-21	2021-22	2022-23	2023-2024
Automate tracking of NAAC and NBA related documentation	Fully online PBAS to capture NAAC and NBA documentation	Automate PBAS to capture NAAC and NBA documentation	Add any NAAC and NBA criteria	Add any NAAC and NBA criteria	Add any NAAC and NBA criteria
Further upgrade Mentor and Mentee Portal	Update Mentor and Mentee portal to track placement and Higher education data		Review Portal	Review Portal	Review Portal

Annexure 1: Questionnaire for Students, Alumni, Faculty, Parents, Industry, Academician

PCE is in the process of preparing its 5-year plan from academic year 2019-2020 until 2023-2024. As an important stakeholder and partner in the institute's success your feedback, assessment, thoughts and suggestions are requested. A draft of the perspective plan is attached.

Type of Stakeholder: Student/Alumni/Faculty/Parent/Industry/Academician

Name of and Affiliation: _____

(You may choose to remain anonymous)

1. Based on your interaction with PCE what would you consider the institute's strengths?
2. Based on your interaction with PCE what would you consider the institute's weaknesses?



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3. Based on your knowledge of the national and international scenario what types of courses would you recommend that PCE start in the next five years?
4. Based on your knowledge of the national and international scenario what types of infrastructural facilities would you recommend that PCE develop in the next five years?
5. PCE has setup an incubation center on campus which provides guidance to startups. How should PCE further develop the entrepreneurial mindset among students?
6. What are the most important social issues that PCE faculty and students should address to maximize its impact?

