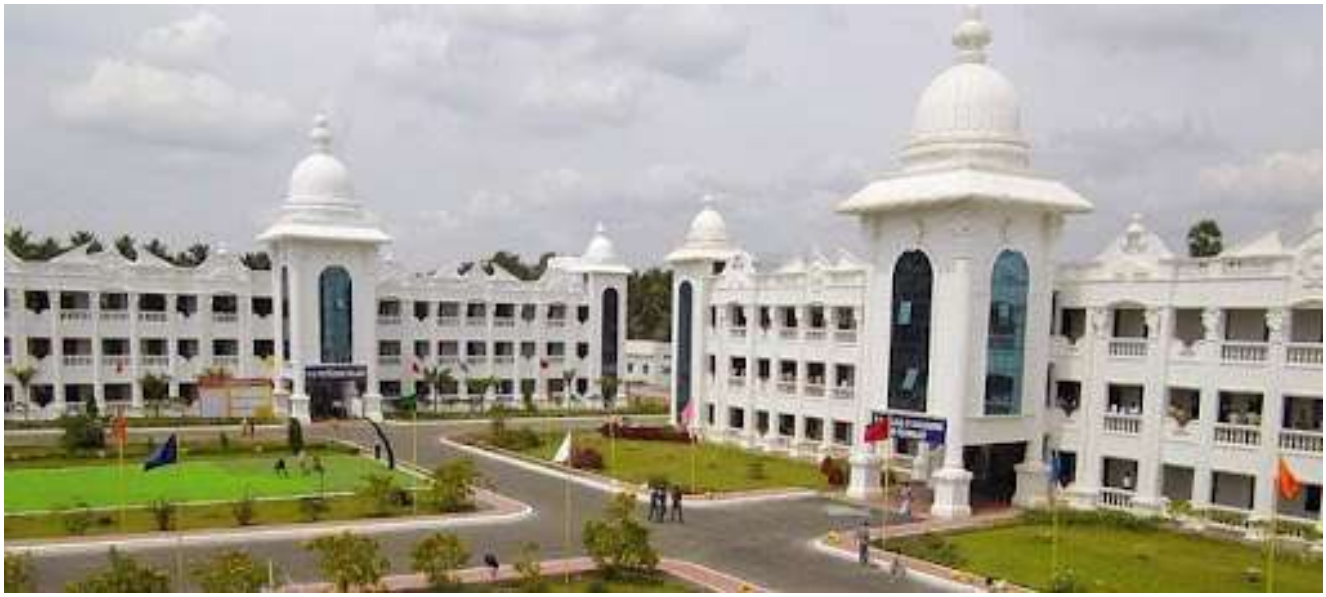
P.A. COLLEGE OF ENGINEERING AND TECHNOLOGY
An Autonomous Institution
Approved by AICTE and Affiliated to Anna University
Accredited by NBA (CSE, ECE, EEE & MECH) and NAAC with 'A' Grade
Pollachi-642 002. Phone: 04259 – 221386, 221387 Tele fax: 04259 – 221386
An ISO 9001:2015 Certified Institution
Web: www.pacolleges.org / e-mail: pacollege@yahoo.com

BEST PRACTICES IN THE INSTITUTION



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BEST PRACTICE - 1

1. Title of the Practice: Value added course

2. Objective of the Practice:

The Institution prepares a syllabus and updates it with academic experts to cater to the developments in the academic arena. The industries keeps developing various products and do improvements in line with customers/consumer needs and varying social requirements. Nevertheless, there is always a gap between academic knowledge learned and Industrial Skill needed. Institution has realized to bridge this gap. Therefore, Industry experts are called to deliver expert sessions creating awareness to the students. Wherever possible, Industry experienced hands are hired to deliver regular classes also with examples of industry activities. Several latest software / hardware trainings are organized beyond curriculum to have a firsthand experience. Also, students are encouraged to have internships with industry wherever possible. Faculty are deputed to quality improvement programs conducted both in-house and other developed institutes like IITs/NITs and national / state recognized institutes.

- To provide students understanding of the expectations of industry.
- To improve employability skills of students.
- To bridge the skill gaps and make students industry ready.
- To provide an opportunity to students in developing interdisciplinary skills
- To help students prepare technically for placement.
- To cope up with the additional input in the respective subjects by inviting academic exponents.
- To make the students get expertise in areas which in turn improve their confidence level.
- To facilitate the students to have up-to-date technological information.
- To set standards that defines the levels of knowledge and competence needed for anadvanced learner.
- To make a difference among students by getting involved and connecting with best resources.
- To facilitate students to get certifications from renowned industrial authorities and other bodies.
- To focus on average learners to complete their degree with placement.
- To focus on slow learners to complete their Degree on time.
- To improve reading, writing and comprehension skills.

- To develop communication skill.

3. Context:

- To meet industry needs value added courses are conducted. The courses focus on skill development and more than 50% of the time is spent on practical training and problem solving, to provide the requisite understanding towards application of academic topics from engineering disciplines into real projects.
- Value added courses serve as a platform to bridge the gap between the university curriculum and the industrial need thus upgrading student's knowledge. Eminent resource persons from distinguished organizations extend their support to students. The awareness on the state of the art is provided by the resource persons. This enhances the placement opportunity for students as they get updated with the current trends in the industry. Mock interview sessions are conducted to create awareness to students and prepare them to face real time needs.
- As most of the students are from rural background, we offer extensive training for all the students right from the entry into the campus till their course completion. Analysis has been carried out to cater the needs of all students regularly.

4. Practice:

- Institution creates a culture of having the evening session for developing their knowledge which will support the students to face the company requirement in addition to their regular academic. During this session only limited students are accommodated based on choice.
- Institution conduct the session with lecturing and hands-on practice that helps the studentsto create their final year project.
- Value added courses are conducted to students which help them to improve skills to design/develop products.
- Eminent resource persons are invited from external organizations. Faculty members are also encouraged to go for certifications and thereby support to conduct the training sessions.
- Hands-on training sessions are encouraged accompanying theory classes to give practical knowledge for the students.
- To fulfill the expectations and demands of the industry, the value added courses as per thedepartment needs are scheduled and conducted by the session committee.
- Apart from the curriculum, value added courses are conducted on various topics during the extended weekdays from 5.15pm to 7.15pm.

- Value added Course are conducted periodically to update the technical knowledge and skill of students in their relevant field like Embedded system, HDL Language for VLSI design, MATLAB programming, C programming and Data Structure, C++ Training,, DCS, Lab view, CATIA, ANSYS, CNC Programming , Components Identification & Testing, Industrial Automation using- PLC Program, MATLAB, Lab VIEW Programming, etc.

5. Evidence of success:

- Offering these types of Courses makes many students to get placed in MNC and Core companies during their final year.
- As students get trained in the requirements needed by the industry, placements also increased.
- The number of students getting projects in industries is increasing year after year as they get sound technical skills which are demanded by the industry.
- The quality of projects done by students has been increased due to the intense training given in value added courses.
- Earning a college degree requires students to possess certain skills, knowledge, and abilities in order to succeed in the postsecondary environment. The life time earning potential of a person without a college degree is typically significantly less than an individual with a degree.

6. Problems Encountered and resource required:

- Students those who undergo remedial classes and students coming from long distance to college are not able to make use of the course.
- All the students are not able make use of these course due to financial problem.
- For conducting these types of courses beyond the academic syllabus those students are not hope up with the academic course and examinations.
- Since the experts handling various courses are called from industries and other organizations, the consistency of the arrival of the experts is quite demanding.
- Since all the students are made to attend the value added course, slow learning students are unable to manage with the regular curriculum aspect of learning.
- Adequate time management is necessary to balance the regular curriculum and the tests for value added courses.

- The allotment of lecture halls/auditorium becomes challenging as all departments are made to conduct these courses.
- There is high need to purchase latest hardware and software thus establishing separate hi-tech lab to conduct the courses.
- It is difficult for the student members to attend the value added classes during internal assessments.
- In order to spend more time after regular college hours in the laboratory requires transport facilities.

BEST PRACTICE - 2

1. Title of the Practice: Industry Institute Partnership

2. Objective of the Practice:

- The broad objective of the Industry Institute Partnership is to reduce the gap between industry expectations (practice) and academic limitations by direct involvement of industry.
- Training the students and faculty through Industry Campus Connect Programme.
- Provide placement opportunities in multi-national product and core companies.
- Organizing seminars, symposium, exhibitions and workshops.
- To establish MoUs with leading Product and Core companies.

3. Context:

- Industry Prescribed curriculum in all the programmes.
- Arranging industrial training for students and faculty members.
- Inplant training and Project work in industries
- Consultancy services provided to the Industries.
- Promote the department level tie-ups with Industries for the mutual benefit.
- Industry-based research and development initiatives.
- Technical Value added courses conducted by Industry experts.
- Planning for students internship and industrial visit.

4. Practice:

- A structured placement training curriculum has been designed to provide placement training. It comprised technical Training, Soft Skills, Verbal & Non-Verbal Reasoning and Quantitative Aptitude.
- Encourage and assist students find excellent internship opportunities to gain practical experience.
- Faculty can undertake R & D projects by identifying the scientific and technological requirements of the industry.

5. Evidence of success:

- Students are seeking practical knowledge and experience about the industrial context, which will lead to career and employment opportunities. The opportunity to use the latest technology and software, resolve real-world issues, and apply what they have learned in class to certain real-world scenarios excites students. Students desire to work with industrial mentors to gain in-depth understanding of the nontechnical side of practice, such as soft skills, project management, and market-driven decision making.
- Collaboration with practice makes faculty more comprehensive teachers and mentors to their students, due to exposure to first-hand knowledge about technology, practices, expectations, and opportunities. Industrial collaboration can provide a unique and advantageous perspective on the state of the art. The ability to steer the students in the right direction naturally leads to personal satisfaction.

6. Problems Encountered and resource required:

Higher education is strongly influenced by academic research on education, which frequently leads manufacturing and industrial enterprises to complain that recent engineering graduates are not industry-ready. But teachers could do a better job of fostering an educational environment that produces graduates who are employable if they had a greater understanding of the applications and viewpoints required by industrial enterprises. Additionally, with closer cooperation, academics' ingenuity and knowledge could serve as a resource for industry in problem-solving.

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