Best Practices: Teaching-Learning Practices

1. **Goal**

In order to facilitate active learning environment to students through participative learning, experiential learning and collaborative learning, P.R.I.D.E. group has been formed

- To apply the engineering concepts to carryout research projects
- To motivate the students to provide solutions for industrial and societal problems
- To encourage the students to participate in Industrial Design Competitions
- To persuade the students to apply for research funding from sponsoring agencies
- To equip the students to commercialize their research outcomes as startup /product

2. **The Context**

In current scenario, getting employable is a big challenge for engineering graduates as there is a gap between the academia and industry. Students lag in converting their theoretical knowledge into practical applications. These problems could be overcome by encouraging them to do internships, industrial projects and participate in design competitions. Ultimately, active learning environment will make the students participative, experimental, and collaborative and ensure students learning to a higher level.

In order to provide active learning environment, apart from routine teaching-learning process, P.R.I.D.E. group has been created among students of all discipline. The students of P.R.I.D.E. group are encouraged to apply the engineering concepts to provide solutions to industrial and societal problems by the way of i) making them to participate in various design contests national / international level ii) involving them to carry out research projects and iii) commercializing their research outcomes as startup / project.

3. **The Practice**

- Interdisciplinary student groups are formed according to their research interest.
- Faculty mentors are allotted for each group to guide and motivate the students.
- Skill development workshops and training programs are organized for students by inviting subject experts, practitioners, resource persons from organizations of national and international eminence where students enrich their skill in their domain. The guiding standard behind workshops is to ensure that students can link theory with practice, apply their knowledge and develop new skills.
- Refresher courses are offered to equip the students to participate in design and project competitions.
- The institution collaborated with industries for student internships and industry projects.
- National and international events / contests were disseminated among the students and interested / skilled students are identified through mentors.
- Mentors take the responsibility of finding ways to educate, stimulate, and make them to effectively participate in the contests.
- The Interative and participatory activities, create a feeling of responsibility in students and makes learning a process of construction of knowledge
- P.R.I.D.E. activities make learning more individualized, creative and dynamic.

4. **Evidence of Success**

PRIDE enables the students to participate in various competitions in the current academic year 2019-20 as follows.

- In E- Yantra Robotic Competition conducted by IIT Bombay, 66 batches participated among which 17 batches were qualified for the second round.
- 1578 students participated in DST and Texas Instruments India Innovation Challenge Design Contest 2019
- 32 students shortlisted for internship by Sony Ericsson.
- 4 Projects were shortlisted in AICTE Chattara Viswakarma Awards 2019

EASWARI ENGINEERING COLLEGE
(AN AUTONOMOUS INSTITUTION)

PRIDE GROUP,DEPARTMENT OF IT&CSE IN ASSOCIATION WITH

SRM AXIS INTELLECTS AND WISEN IT SOLUTIONS AS INDUSTRIAL PARTNERS ARE PROUD TO HOST

FIND A BUG,WIN A PRIZE **CONTEST**

DATE: 14-09-2019

OVER 460 STUDENTS HAVE PARTICIPATED

PRIZES OF WORTH RS- 30000/-

1st PRIZE - RS 1000/-
FOR 10 MEMBERS
2nd PRIZE - RS 500/-
FOR 20 MEMBERS
3rd PRIZE - RS 300/-
FOR 30 MEMBERS

EASWARI ENGINEERING COLLEGE
(AUTONOMOUS)

APPROVED BY AICTE | AFFILIATED TO ANNA UNIVERSITY | NAAC – ACCREDITED 'A' GRADE | 2(F) & 12(B) STATUS (UGC)
ISO 9001 : 2015 CERTIFIED | NBA ACCREDITED PROGRAMMES | FIST FUNDED (DST) | SIRO (DSIR)

A PRIDE CONTEST "FIND A BUG & WIN A PRIZE"

Date : 14ᵀᴴ September 2019
Venue : TRP Auditorium

Congratulations to all the winners

EASWARI ENGINEERING COLLEGE
(AUTONOMOUS)

(Approved by Govt. of Tamil Nadu & AICTE, Affiliated to Anna University, Chennai
Accredited by NAAC with 'A' Grade & ISO 9001 : 2015 Certified)

The Students of the *Department of Automobile Engineering*

participated and secured the 9ᵗʰ Place in the

National Level

Tractor Design Competition 2019
Organized by SAE INDIA
Under P.R.I.D.E Activities

Congratulations!!!

Practice II

Title of the Practice: : Value added courses from first year of study

1. Goal:
- To consistently develop skill sets in students so as to match the industry expectations
- To bridge the gap existing between the curriculum prescribed by the affiliating university and industrial requirements.
- To provide technical knowledge on the topics beyond syllabus
- To enhance the soft skills for personality development
- To help students prepare technically for placement.
- To update students with the recent trends in engineering and technology
- To provide hands on training through experts on different areas of engineering
- To facilitate students to obtain certifications from renowned industrial authorities

2. Context:

As an affiliated institution, it is necessary to follow the curriculum prescribed by the university and the college has minimal control over curriculum revision. Further it is necessary for the students to be abreast of the latest technological developments for better employability. This has necessitated the introduction of value addition courses to provide advanced technical knowledge and help in achieving excellence in chosen field.

3. The Practice

3.1. Programme Specific Value Addition Courses Offered

3.1.1. Technical Skills
- C, C++, Basic Circuit Design, Lab View are offered to the students of Electrical and Electronics Engineering

3.1.2. Soft Skills

Training on Personality Development, Leadership Skills, Business Communication Skills, Crisis Management, Interview skills and Aptitude training are offered to students of all branches.

3.2. Allocation of hours
- Every department is encouraged to extend its support to organize a value addition course for 20 hours each semester.
- The 20 hours of training is spread across to two hours per week and they are reflected in the time table.

3.3 Conduct of Courses
- Practical sessions are arranged along with theory classes to give hands on training on technical skills.
- More emphasis is given to practical sessions for the students to get expertise in trouble shooting the technical problems.
- Certificates are given for certified course which help students during placements
- Activity based teaching is adopted for training soft skills which enables the student to communicate confidently in real life situations

3.4 Resource persons and Infrastructure facilities
- Sessions are handled by eminent resource persons from external organizations.
- Internal teaching faculty are also encouraged to obtain certifications from certifying bodies to support the conduct of training sessions.
- Theory classes are conducted in the classrooms.
- Department specific laboratories are utilized for conducting practical sessions.

4. Evidence of Success
- Award winning projects
- Student Publication
- Placement