Project Based Learning

Why PBL:

Nowadays Industry expects engineers to have skills like critical thinking, problem solving, ability to work in team, make presentation of the ideas and technology developed etc. Project Based Learning is a novel teaching method, designed to address these requirements to make your ward ready for Industry. It helps students to learn better and it motivates students to gain knowledge, and remember it longer. Moreover, it gives students the chance to apply the skills they learn in Engineering to technology to real-world situations. The skills acquired will help your ward to succeed in professional life.
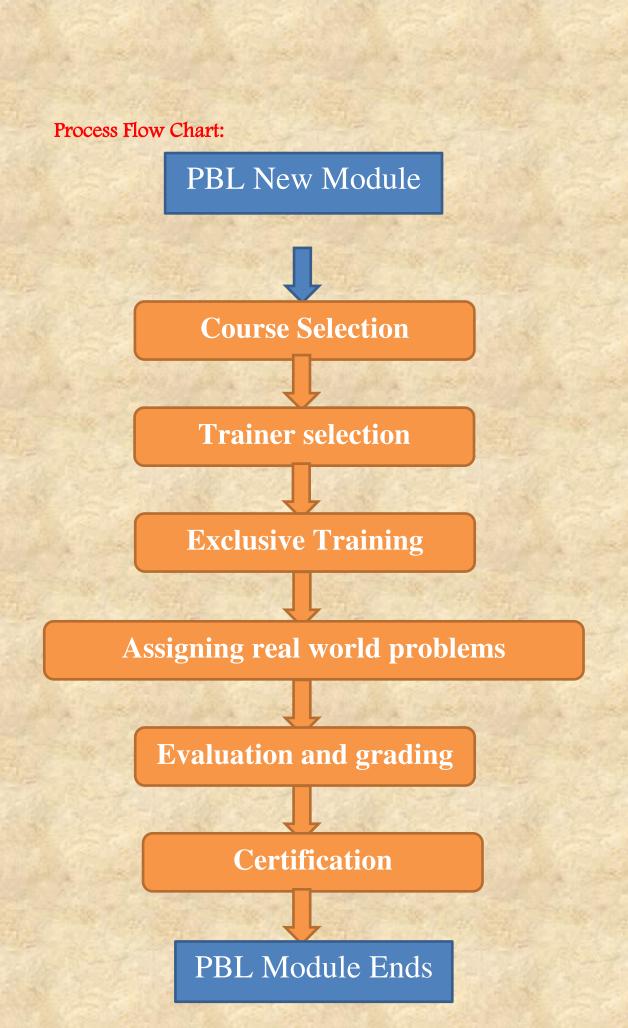
Objective:

1) To prepare industry ready engineers
2) To enhance problem solving skills by collaborative learning
3) To improve employability skills of students

Scope:

1) Total five projects will be done by each student from Semester 2 to Semester 6
2) Each semester, one technology is taught as a course/module under PBL

Students will do the projects with the help of faculty members and the projects will be checked periodically by industry experts.

Process Flow Chart:

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│     PBL New Module      │
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             ▼
┌─────────────────────────┐
│    Course Selection     │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│    Trainer selection    │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│   Exclusive Training    │
└─────────────────────────┘
             │
             ▼
┌───────────────────────────────┐
│ Assigning real world problems │
└───────────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│ Evaluation and grading  │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│      Certification      │
└─────────────────────────┘
             │
             ▼
┌─────────────────────────┐
│    PBL Module Ends      │
└─────────────────────────┘
```

Process:

1. **Course Selection**
   The faculty members and HOD will select the course by considering university syllabus as well as the current trends in Industry.

2. **Trainer selection**
   Industry experts/trainers are call for demo lecture and the best expert/trainer selected

3. **Exclusive Training**
   Six days exclusive training by industry experts/trainers at the starting of the semester

4. **Assigning real world problems as a projects**
   Allotment of project for group of four students with real world problem statement

5. **Evaluation and grading**
   Projects will be checked and evaluate periodically by industry experts in three visits

6. **Defaulter policy**
   The students whose attendance is less than 80% will be considered as defaulters

7. **Completion Certificate from Institute in association with vendor**
   100% project completion with presentation, implementation and demonstration

Courses offered:

Upcoming PBL Courses of June 2019:

- JAVA
- AutoCAD3D
- Solid Modeling
- Web Stack
- Python
- STAAD Pro
- Industrial Drawing Interpretation-IDI
- Total Management Framework

PBL Courses of Dec 2018:

- Python
- Revit
- MATLAB
- IoT

PBL Courses of June 2018:

- JAVA
- AUTOCAD 3D
- SOLID WORKS
- MATLAB

PBL Course of Dec 2017:

- Basic Programming using 'C'

PBL Conducted in I half Of Academic Year 2018-2019

For More details, Visit https://www.apsit.edu.in/project-based-learning