



Alard Charitable Trust's

# Alard College of Engineering & Management

NAAC Accredited

(Approved by AICTE & Affiliated to University of Pune)

Campus : S. No. 50, Marunje, Rajiv Gandhi Infotech Park, Pune - 411057.

Tel:02066523707/02 Email : info@alardinstitutes.com Website :www.alardinstitutes.com

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AISHE Code : C-42123 ISPPU-PUN Code : CEGP015030 IDTE Code: 6325

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## Best practices-1 Effective use of Virtual Lab

**Title of the Practice:** Effective use of Virtual Lab

**Goal:**

- Remote access to labs in a range of science and engineering areas. Students at all levels of education, including undergraduates, postgraduates, and research experts, would benefit from these Virtual Labs.
- To stimulate students' interest in doing experiments by piquing their curiosity. Through remote experimentation, they will be able to acquire fundamental and complex topics.
- To provide a full Learning Management System focused on the Virtual Labs, where students can access a variety of learning resources, such as extra web resources, video lectures, animated demonstrations, and self-evaluation.

**The Context :**

- Under the auspices of the National Mission on Education through Information and Communication Technology, the Ministry of Human Resource Development (MHRD) of the Government of India has launched the Virtual Labs project (NMEICT).
- We can take practical practise sessions online using Vlab. Through remote experimentation, they will be able to acquire knowlege o fundamental and advanced topics.
- The teacher can explain dynamic programme execution on various inputs.
- All Science and Engineering College students and faculty members who do not have access to good lab facilities and/or tools.

**The Practice:** In laboratory conduction, most of the faculties conducted an experiment of a virtual lab for the students. Also, organized Outreach programs of virtual lab for Junior college faculties and students to make aware about the Virtual labs.

**Evidence of Success:** Virtual Lab attendance of students and photos.

**Problems Encountered and Resources Required:** Virtual Lab Site has given specific subjects for Virtual Labs. So every faculty could not be able to take advantage of this lab, if it is not available on the Vlab portal. So,in that case we have taken help of other resources for taking practicals.



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## Best practices-2

### Enrichment of Skill Sets of Student

**Title of the Practice:** Enrichment of Skill Sets of Student

**Goal :**

- Alard College of Engineering and Management in Pune is devoted to assisting students to build employment skills.
- Bridging the gap between industry and academia is a vital step toward achieving this goal.
- For updated learning, students are offered with Value Added Programs under the Savitribai Phule Pune University Syllabus and other learning platforms such as workshops based on developing technologies, virtual industry visits, and guest lectures.

**The Context:**

In India, the increased demand for emerging trends training among engineering graduates indicates a mismatch between academic education and business demands. ACEM is a college connected with Savitribai Phule Pune University and it is not allowed to add new subjects to the curriculum. However, more training is required to meet industrial requirements. According to comments from stakeholders (students, alumni, employers, and parents), digital transformation of industries requires skilled manpower with a basic understanding of platforms and technology. Artificial Intelligence, Electric Vehicles, advanced languages and other fields in the software industry require specialised training. Core engineering organisations, on the other hand, require engineers who are familiar with Industry 4.0.

**The Practice:**

- Promoted students for taking more Internship since second year of UG program
- Imparting need based training to the students to enhance employability and entrepreneurship.
- Value added courses run in terms of audit courses.
- Conducting guest lectures, workshops and seminars to encourage higher education within and outside the country.
- Promote students to participate in copyright conference.
- Provided career guidance programs.

**Evidence of Success:** All workshops, seminars, guest lectures, webinars and Internship reports are attached.

**Problems Encountered and Resources Required:** As these courses are not from the university syllabus, so arranging of webinars and workshops is another challenge. College also faced problem due to lack of adequate skill-sets for Industry 4.0.



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## Best practices-3 Innovative Idea

**Title of the Practice:** Innovative Idea

### Goal :

- Alard College of Engineering and Management in Pune is devoted to assisting students to build Innovative skills.
- Bridging the gap between industry and academia is a vital step toward achieving this goal.
- To provide a full Learning Management System focused on the Innovation , where students can access a variety of learning resources, such as extra web resources, video lectures, animated demonstrations, and self-evaluation.
- For updated learning, students are offered with Project based learning under the Savitribai Phule Pune University Syllabus

### The Context:

In India, the increased demand for emerging trends training among engineering graduates indicates a mismatch between academic education and business demands. ACEM is a college connected with Savitribai Phule Pune University and in 2019 pattern subject like project based learning is added to the curriculum based on new ideas to meet industrial requirements.

### The Practice:

- Promoted students for giving new & advance ideas in second year of UG program
- Imparting need based training to the students to enhance employability and entrepreneurship.
- Value added courses run in terms of audit courses.
- Conducting project exhibition on project , workshops and seminars to encourage higher education within and outside the country.
- Promote students to participate in copyright conference.

**Evidence of Success:** All project report from each department.

**Problems Encountered and Resources Required:** As this course is newly introduce in university syllabus, so arranging of webinars and workshops is another challenge. College also faced problem due to lack of adequate skill-sets for Industry 4.0.