Best Practice-II

Title of the Practice:-	Internship: A step towards preparing industry-ready human resource.

Goal:- The goals of providing internships are:
1. Convert the academic knowledge into industry skills.
2. Expose students to contemporary tools and technologies so as to solve real world problems by providing hands on experience
3. Make them industry-ready and globally competent.

The Context:- Internship in industry is a powerful platform to enhance the practical learning experience of students from the classroom to real-world exposure. The institute has relentlessly pursued this activity in the last three years with promising results. Internships expose students with knowledge of technology/tools, best engineering practices, project management, team work,leadership, planning, execution, product delivery and soft skills such as oral presentations and written communication, time management, professional ethics etc.

There is a paradigm shift in the thinking pattern of the interns as they learn to look at engineering as a means of product development by applying scientific knowledge instead of only purely academic pursuit for getting marks. They thus dream of becoming professional practicing engineers instead of mere degree holders.

Industry would also benefit due to this initiative if internships smoothly dovetails into final year projects and subsequent employment of these industry-ready students.

The Practice:- The internship opportunities are hosted as per the policy of the institute which is framed according to the academic calendar & curriculum of the affiliated Savitribai Phule Pune University (SPPU).The requirements are taken from the industry/ organization. Interested students are briefed about the organization and purpose of the internship. Students indicate their preferences. The students are shortlisted at the institute level according to their academic performance and knowledge. The final selection is carried by respective organization/industry. Students go to the industry/organization to work on a real time project in the vacation for a period of 4 to 8 weeks. There is a single point of contact from the industry as well as from the institution/department for all the communications. Ultimately, the practices followed in internship programs include orientation of intern to,
1. Organizational structure.
2. Rules and regulations of organization.
3. Professional and ethical behavior.
4. Practical hands-on experience in handling tools and technologies used in the organization.
5. Carrying out small jobs.

6. Technical documentation through their internship report.

After the completion of internship, students submit a project report to the institute and industry. The project report includes the details of the activities carried out by the student. The industry and the students give feedback about each other to the institute. The feedback helps in improvement of internship program in the next cycle. Students are awarded certificates from the industry on successful completion of the internship. The certificate mentions the duration of internship, technology or tools used, jobs done, etc. This certificate/internship boosts the confidence level of a candidate and helps build his portfolio.

Feedback from the industry gives a qualitative or quantitative idea of the success of the internship program.

PICT students are much focus on technology. Every semester, students undergoes internship at various niche organizations like **IIT Bombay, Barclays Pune, Microsoft Pvt. Ltd, NTT DATA Japan, PICT internship cell**.

The PICT internship cell provides full time internship to the students. Overall 215 students registered under PICT internship cell for various problem statements during A.Y. 2018 -19.

The Evidence of success :- An MOU is made between the Center for Police Research, Pashan Road, Pune AND Society for Computer Technology & Research's, Pune Institute of Computer Technology, Pune where 35 students registered under various research based problem statements.

Ms. Nilakshi Lo got the pre placement offer **(PPO)** of Rs 43 Lakh /annum after successful completion of 2 months internship at Microsoft India Development Center.

Mr. Geet Shingi from Computer Engineering got the stipend INR 66667/- for 2 months internship at Barclays Pune.

Last year 152 students undergone internship and for the current year 182 students received internship.

Following table shows the success indicators in terms of the number of students who have undergone & completed internship.

Summary of Internship

Sr. No	Year (SE/TE/BE)	Academic Year	Total No of students
1	TE	2018-19	169
2	BE	2018-19	13
	Total number of students		182

Problems Faced and Resources Required:-	1. Due to lack of separate slot for internship in curriculum structure given by SPPU, it is difficult to match internship tenure to meet the industry requirement.
	2. Industry should initiate internship awareness session to explore the cutting edge technologies to narrow down student's choice of interest in which they want to pursue their carrier.
	3. There are no enough companies to meet a huge internship requirement.