

JHULELAL INSTITUTE OF TECHNOLOGY



BEST PRACTICES BOOKLET



BEST PRACTICE-1

EMPOWERMENT OF STUDENT.

Following are the details of best practices adopted by the institute for Teaching-Learning

1. Mentoring
2. Skill development
3. Peer learning.
4. Internship
5. Career Guidance

Goal:

- 1. Mentoring:** The mentor plays the role of a guardian for the student. For the student, the mentor is the first reference for any kind of query. A mentor guides their at of their personal & professional front. A mentor personally ensures that the student is aware of all the resources available to the student during their course of study at the institute. The mentor is available to counsel the student in any matter of concern apart from the curriculum also.



- 2. Skill development:** Skill development initiative is taken by the institute to develop students for further education, placements and also to develop entrepreneurial skills. Tailor- made, need-based programmes such as technical language enhancement, communication skills development, positive thinking skills, personality development skills, and management skills, behavioural skills, engineering skill and employability skills are initiated.



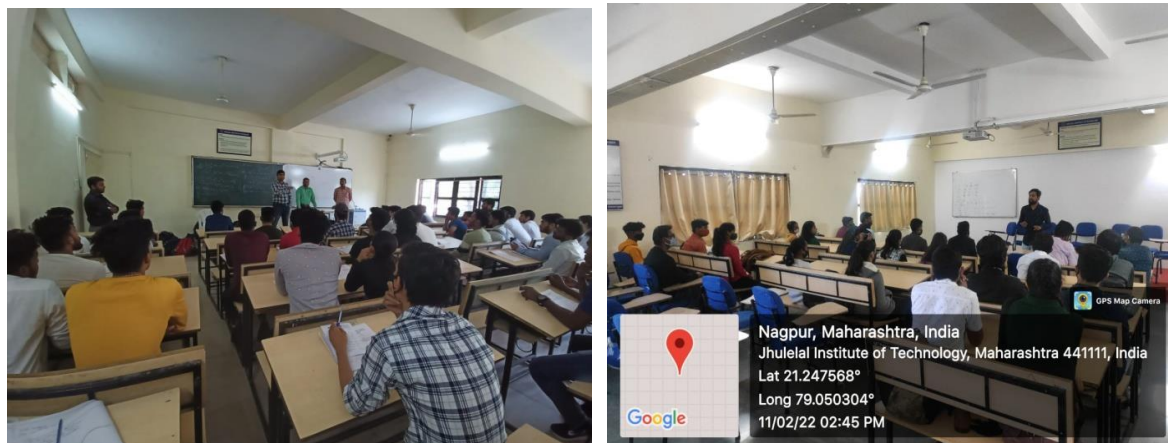
3. Peer learning: Peer learning is initiated by the institute to provide a comfortable learning environment for students without the fear of judgment. This is done to increase confidence amongst students and to develop and enhance communication & social skills. Peer Learning empowers needy students to build personal resilience and improves team learning behaviour. Institute also applies Project Based Learning to develop technical skills amongst students. It also helps them to learn team building strategies.



4. Internship program: Students attend various internship programs conducted by different companies for a period of 15-45 days during vacations. This helps them to understand industry needs and is helpful to enhance their technical skills and team spirit accordingly. If students excel during Internship program, the respective company also offers full time job placement.



5. Career Guidance: In today's competitive markets, right path of career choice relative to the potential and interest of the student is confusing. To keep the students career-focused and make them aware about the industry and social needs, institute plans various career guidance opportunities through counselling, seminars & workshops. The aim is to induce a habit among the students for lifelong learning and make them employable / industry ready.



The Context

Mentoring: Students undergo various problems of stress, lack of concentration, loss of confidence in studies etc. during their course work. Statistics reveals increasing number dropouts due to these reasons. Mentoring is required for students to achieve emotional stability and to promote clarity in thinking and decision making for overall progress. Through proper structured mentoring all the stress related problems of the students can be addressed and efforts can be taken to reduce them. Proper mentoring may lead to excellence in curricular & co-curricular activities thereby increasing the confidence.

Skill development: Most of the companies want to recruit fresh students having application knowledge and good technical skills. Moreover, students with good soft skills & control over communication skills gains priority. Skill development & Career Guidance enhances career prospect of students also make them ready to become entrepreneur.

Peer learning: In this mode of learning, students interact with their peers and learn from each other without any supervising authority. This creates an environment of open communication which is very important for learning. It is observed that students, who engage in an environment of open and free communication, study well and perform better academically.

Internship program: To meet industry-institute gaps, internships programs are made compulsory to make students aware of various practices followed by companies. This enhances technical skills and also builds team spirit and punctuality amongst students.

Career Guidance: Career counselling & seminars are arranged periodically to make students learn about their interest fields, increase awareness about the choice of career options available thereby guiding them how to follow the chosen path to reach the desired goal.

The Practice

Mentoring: Institute takes extra care about creating an efficient mentor-ward system. Each teacher (mentor) is assigned 15-20 students as mentees. They meet at least once a week to discuss, clarify and primarily to share various problems which may be personal, domestic, academic, etc. The teacher is equipped with all the necessary information about his/her wards on a file. The teacher involves local guardians and parents as well, whenever necessary. We have developed prescribed format in which minute of every meeting with the mentee is recorded and then the mentor teacher in consultation with HOD and Principal formulate the necessary action to be taken. Mentors pay a compulsory visit to his/her mentee's residence to understand the local and household difficulties incurred by the student which might affect the academic performance of the student, and tries to resolve the problems in collaboration with the parents/guardians.

Skill development: Soft skill development module is offered to students from first year. From second year, technical skill development initiatives are taken in terms of technical workshops, short term modules, industry-based projects etc. With skill development related activities, students also get opportunity to move for entrepreneurship.

Peer learning: In JIT, bright students with fast learning abilities provides peer learning to their classmates. Occasionally, senior students are also invited to take some lectures for junior classes. This is done to motivate junior students and build confidence.

Internship: At the end of every semester, students are encouraged to take Internship at any branch specific company/industry. Students are trained during internship about how the theoretical skills are applied/used in real life. This increases their interest in the respective field and they learn various new practical concepts during their internship tenure.

Career Guidance: Specially designed career counselling sessions, seminars & workshops are arranged for students to make them understand multiple career opportunities that are open in the market. Students are made aware about the path to follow to reach to their desired goal.

Evidence of success

Mentoring: Minimized dropouts through personal counselling. Evidence of success of the practice includes better results in the examinations, more regular attendance, increased participation in co-curricular activities, better discipline on campus and respectful relationship between teachers and students.

Skill development: With this initiative, it is observed that students are getting better subject understanding, it boosts their confidence for placement and many students get good job opportunities due to their enhanced skills.

Peer learning: Surprising result and satisfaction of students is obtained at first- and second-year level. Not only it helped needy students and but also adds up to the confidence level of resource students. It also improved team work .

Internship: Students who complete their Internship program are found to be more confident and learned towards technical skills and team spirit. They become more focused to achieve their desired goal in a systematic and time efficient manner.

Career Guidance: The performance of this practice is reflected in the campus placement of the students. The total placement scenario has been improved drastically over a period of time and the placement percentage has taken an upward trend year-by-year.

Problems Encountered and Resources Required:

Mentoring: Students avoid meeting mentors during college time. Students from poor economic background are reluctant to home-visits of their mentors.

Skill development: Soft skill and few technical skill development modules can be organized in the institute.

However, for advanced technical skill expert resources are not available.

Peer learning: Few students are still reluctant to take advantage of this facility. Bright students with fast learning abilities generally work as resources.

Internship program: Students are forced to do the Internship program. Most of the students do not put effort to find and grab the Internship facility available.

Career Guidance: Students are not clear about their area of interest and future goals. Difficulty in motivating students for higher studies and public service examinations for which attending classes beyond the regular class hours is a requirement

BEST PRACTICE-2

INDUSTRY INSTITUTE LINKAGE.

Goal

1. To sign Memoranda of Understanding between the Institute and industries.
2. To work on live project.
3. To provide 100% internships.
4. To organize guest lectures.
5. To provide faculty training.
6. To provide placement to students.
7. To provide career counselling to students.
8. To establish industry sponsored labs in institute.
9. To persuade the students to acquire a sound technical knowledge in the area of industry.
10. To help students excel in placement.
11. To make them learn discipline, punctuality, integrity, team work, giving back to society.
12. To groom the students as per corporate standards.

The context

There is a prerequisite to create opportunities for a close academia and industry interaction through all the phases of technology development, starting from conceptualizing to commercialization. Students are needed to be skilled to work on innovative ideas. It should continue for extensive period for preparing the manpower of world class in the field of technology by implanting various skills required by the industry, thereby contributing to the economic and social development at large. The main aim is

- To help design, deliver and develop training modules for students so that they are industry-ready.
- To help the faculty to understand expectancy of industry so that they can use tools and pedagogy in their teaching to the needs of the industry.
- To facilitate internships/ in- plant training/ industrial project for students to ensure that they get industry exposure during their campus days, this leads to better employability.
- To groom them an Entrepreneur by inviting achievers of the industries.

The practice

- Organizing Workshops and trainings with joint participation of the students, faculties and the industry.

- Participation of experts from industry to bridge the gap in curriculum.
- Arranging visits of staff and students to various industries/companies.
- Professional consultancy by the faculty to industries.
- Memoranda of Understanding between the Institute and industries to bring the two sides strategically closer.
- Internships to students to work in industries under joint guidance of the faculty and experts from industry.
- To work on live projects in industry.
- Industry based Laboratories sponsored by industries at the Institute.
- Interactions between academic institutes and industry to create checklist of needs of Industry.

It is evident that collaboration of industry and institution in skill development leads to innovations. The best practices of our Institute to enhance the interaction between Industries and Institute are

- Industrial visits/tours
- Industrial training/internship
- Industrial Live projects
- Participation in the industrial expo.
- Inviting industrialist as guest speakers/expert
- Arranging the hands-on training in the cutting-edge technology
- Entrepreneurship development through industrial association
- Value added courses

Industry guest lecture are organized to promote entrepreneurship and to bridge the gap between the academia and the technology expected from the industries or companies. Online course like Swayam/NPTEL/IEEE linked with industrial requirement are announced by the department so that students can have the international certification

Evidence of Success

- Industry explorer program conduction gave students exposure to industrial expectations to focus on the need based skill set. During campus placements, performance of students improved.
 - The program helped students in technical enhancement, understanding of subject, better application of knowledge, exposure to industry environment, understand industry requirement.
 - Identification of innovative projects and applying of those projects in IPR is done
 - Problem solving skills are enhanced to face the challenges associated with carrying out investigation
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- Students are encouraged to participate in project expo.

Problems encountered and Resources required.

- Student's initiative is an issue since students are having lack of confidence.
- The tie up with MNCs is difficult.
- Less number of related industries in local area.