

Industrial Visits, Internships & Learning through Extension activities

Industrial visits and training are organized for students to bridge the gap between theoretical learning and practical training in a real-time environment. The students are able to understand the industrial practices and organizational hierarchy during industrial visits.

The students are required to undergo a six-week summer internship at the end of the second year at an industry or research establishment. This provides a first-hand feel for the job environment and makes them industry ready.

To enhance their learning capabilities, communication skills, and problem-solving skills students are guided to survey neighbourhood villages to understand the social issues. By analyzing the survey, the students will formulate feasible solutions and suitable activities viz. Career guidance, Classes, Training for competitions, etc. for high school students. In addition, various activities are initiated in the form of presentations, rallies and awareness campaigns, training etc. All these activities are carried out under Leo club and NSS.

Objectives of Industrial Visits, Internships & Learning through Extension activities:

Given below are a few significant objectives and benefits of Industrial Visits, Internships & Learning through Extension activities:

- **Opportunity to interact with Industry Experts:** Industrial visits provide students with a chance to meet industry leaders, professionals, entrepreneurs, policymakers, and corporates who share their wisdom, learning, and experiences. These interactions are useful to students in their career and help them in developing leadership qualities, management skills, and learn about the industry working. Industry interaction is also helpful in updating the curriculum when there are significant changes in prevalent technologies; also, the faculty members get to know about the industry's latest trends.
- **Learning experience:** Educational tours to industries provide an opportunity for students to see and experience real workstations, plants, machines, systems, assembly lines, and interact with highly trained and experienced personnel. This practical learning experience is necessary for students who have to date studied theory only and are unaware of a real production plant's daily workings. The students learn about company policies in terms of production, quality, and service management and acquaint themselves with the working of instruments during the course curriculum.
- **Enhanced employability and PPO's:** Industrial visits play a crucial role in increasing networking opportunities while building a good relationship with companies. For students, such trips open many doors for corporate training and internships, which in turn

increase the students' employability. Oftentimes, many students are offered PPO's as a result of fruitful interaction between the company's HR and students.

- **Management Lessons:** During the industrial visits, the students get an opportunity to experience how professionals live, learn about various management concepts like Just In Time or Lean manufacturing and how they are put into action. It is not easy to manage hundreds of skilled and unskilled workers at the same time and meet the stringent quality norms and production targets of the company. How managers, production engineers, employees work in tandem to achieve a common target is a management lesson in itself.
- **Day off from the usual melancholy:** Finally, these industrial visits provide the students much-needed break from the usual melancholic theory classes, and students get a chance to engage in fun learning. The students get an opportunity to learn something outside the four walls of their college.

Plan of Execution

Things to keep in mind while planning an industrial visit!

- Inform the Company. ...
- Draft an MOU. ...
- Look for a location. ...
- Be ready for risks. ...
- Pre-plan the activities. ...
- Food cannot be forgotten. ...
- Choose the Vehicle wisely.

Mapping of Innovative T-L Method to Subject

Name of the Faculty	Name of the course	Year & Semester	Topic	Innovative methods
Dr. Yashu Swami	Embedded Systems	IV&I	Hardware Software Co-Design	Industrial Visit, Internship & Learning through Extension Activities

Our faculty Dr. Yashu Swami uses Industrial Visit, Internship & Learning through Extension Activities approach in Innovative teaching method for teaching the topic Hardware Software Co-Design of course Embedded Systems in IVth Year & Ist Semester. As Industrial visits are an essential part of the academic curriculum in most of the Graduate and Post-graduate courses, he has conducted two main industrial visits in this regards. The first in ISRO SDSC SHAR and second in MSME, Vizag. Being a part of interactive learning, such educational

visits give students a major exposure to real working environments along with a practical perspective of a theoretical concept relevant to their domain. In addition to that, industrial visits bridge the widening gap between theoretical learning and practical exposure by giving students the first-hand exposure to identify the inputs and outputs for different business operations and processes performed at the workplace.



ISRO SDSC SHAR



MSME, Vizag

Benefits over Conventional Teaching Methods

With these industrial visits, we could see number of benefits listed below:

- Industry ready candidates are required. ...
- Exposure to industry experts. ...
- Enhanced learning experience. ...
- Networking opportunities equate to increased employability. ...
- Growth in learning soft skills.

Intending to go beyond classroom learning, the industrial tours contribute a lot in holistic student development by letting students learn about the current trends in the market, the future scenario of the industry and the new technologies that are being applied in the industry.

Our faculty believes that the bright students are the key drivers of the nation's growth engine and nurturing their talent with the best theoretical knowledge well as practical orientation is the core responsibility of the institute. Our Institute leaves no stone unturned for the holistic development of students by giving them quick access to state-of-art facilities so that each student gain high self-esteem, more knowledge and grow stronger in his/her career.