

# **A REPORT ON INDUSTRIAL VISITS**

**2014**

## **Training & Placement Cell**

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**Chhotubhai Gopalbhai Patel Institute of Technology**  
**Uka Tarsadia University, Bardoli**

## About Institute

**Chhotubhai Gopalbhai Patel Institute of Technology** (CGPIT) established in 2009, under the roof of **Uka Tarsadia University** (UTU) with the view of educating and training future professionals to lead in today's competitive environment and to meet the needs of globalization and industrialism by providing dynamic and conducive learning environment.

## About Departments

Department of **Mechanical** Engineering is established in 2010 to accomplish the necessity of competent Automobile and Mechanical engineers in the current phase of infrastructure development in the state as well as nation. To realize, the curriculum has been designed with close interaction of faculty members with the experts from the industries. There are numerous opportunities for our students to participate in student organizations. The **Indian Society for technical Education** (ISTE) and the **Society of Automotive Engineers'** (SAE) student sections have been running at department.

## Why Industrial Visit?

Industrial visit is a part of the engineering courses, during which students visit companies and get insight of on the internal working environment of the company. The industrial visit also provides an insight on how companies work and also useful information related to the **practical aspects** of the course which cannot be visualized in lectures. With an aim to go ahead of academics, these visits are arranged to build up the insights of the students – attaining practical knowledge and their theoretical applications thereof.

Industrial visit is considered as one of the most deliberate methods of teaching. The main reason behind this – it lets students to know things practically through interaction, working technique and employment exercise. Moreover, it gives introduction from academic point of view.

We take a group of students for a guided tour into the premises of various industries, providing them information about the background of the companies and their current position in the global business scenario. The aim of such visit it to

- Exposure to practical working environment
- Make students aware with industrial practices
- Increase practical awareness of various industrial sectors
- Acquaint students with interesting facts and breath-taking technologies

## List of Companies Visited

- Ukai Hydro Power Station ( Ukai Dam )
- Larsen & Toubro, Hazira
- P S Engineering, Navsari

## Ukai Hydro Power Station ( Ukai Dam )

Detailed information about the visit is given as below.

Date of Visit	Semester / Course / Division	No. of Students	Timing	Faculty Representative
05-02-2014	4 <sup>th</sup> / Mechanical Engineering / A	64	Entry – 11:30 am Exit – 01:30 pm	Prof. Prakash Naik, Prof. Saurabh Patel
08-02-2014	4 <sup>th</sup> / Mechanical Engineering / B	64	Entry – 11:30 am Exit – 01:30 pm	Prof. Keyur Patel, Prof. Vishal Mehta
<b>Total No. of Visitors = 132 ( 128 No. of Students + 04 No. of Facultyies )</b>				

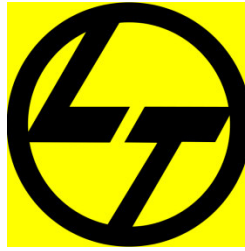
An Industrial visit to Ukai Hydro Power Station was organized by CGPIT College as a part of the **ISTE Student chapter** activities.



A Group Photo – Visit at Ukai Hydro Power Station

- Students were firstly, introduced to the basic understanding and structure of dam, its working, power production, advantages and disadvantages etc. orally. Then, two out of four giant Kaplan Turbines were shown under running conditions.

- Various electro-mechanical controlling machines and their working were shown and explained briefly. Students are allowed to visit control room from where the entire plant of Ukai Dam was explained in detail.
- There was rich technical discussion between students and working staff. Behind the main building, huge wall of dam, transformers and power grids carrying the hydroelectricity were visible.
- Later, lunch was provided. Students left Ukai Dam at 2 pm. Overall; it was a very educative experience. Students expect more of such visits for better supplementing of practical knowledge.



## Larsen & Toubro, Hazira

On 20<sup>th</sup> of September, 2014; Mechanical engineering department has organized an industrial visit at **Larsen & Toubro, Hazira** for a group of final year students.

- To improve the practical awareness of a particular topic of the curriculum syllabus for the mechanical engineering course; department has arranged this visit. **Welding Technology** is one of the most important subject; not only in terms of theory but in terms of real life exercise.
- Mr. Harshit Desai (Assistant Professor, Mech. Engg. Dept.) Specialized in **Industrial Engineering** and Mr. Krishna Patel (Assistant Professor, Mech. Engg. Dept.) Specialized in **Advanced Manufacturing Techniques** were appointed as a faculty co-ordinator; so they can maintain the bridge between theory and practical approach. Also they can easily explain this connection to students. Details about the visit are given as below.

Date of Visit	Semester/Course	No. of Students	Timing	Faculty Representative
20-09-2014	7th / Mechanical Engineering	36	09:00 am to 01:00 pm	Prof. Harshit Desai Prof. Krishna Patel
<b>Total No. of Visitors = 38 ( 36 No. of Students + 02 No. of Faculties )</b>				

### Scheduled was followed as:

- 09:00 am to 09:15 am - Tea
- 09:15 am to 10:30 am - Inter-active session on various welding processes with Er. Hemal Desai
- 10:30 am to 12:00 noon – Visited Heavy Engineering Department
- 12:00 noon to 12:15 pm – Interaction with Mrs. Alpa Gandhi ( HR Department )
- 12:15 pm to 01:00 pm - Lunch



A group photo – Visit at L & T, Hazira (20-09-2014)



## Peass Industrial Engineers Pvt. Ltd., Navsari

(<http://www.peass.com/index.aspx>)

On 4<sup>th</sup> of October, 2014; Mechanical engineering department has arranged an industrial visit at **Peass Industrial Engineers Pvt. Ltd., Navsari** for a group of final year students.

### About Company

Company was founded in 1962, started as a machinery manufacturing company with products specifically targeted to the **textile industry**.

- The **Tool Room** is equipped with all types of precision machines including grinding machines, tool and cutter grinder, pantograph machines, etc. to cope with the demanding requirements.
- Engineering design is carried out on an intelligent **Computer Aided Design** (CAD) system. The CNC machines which are capable of 3 – Dimensional machining are linked with the aforementioned CAD – CAM system. **Solid Modelling** is used to allow the designer to predict performance of the product at the design stage itself. Software for Computer Aided Machining is used to incorporate various tools into the machining programs, which are then directly transferred to the CNC machines.

Date of Visit	Semester/Course	No. of Students	Timing	Faculty Members
04-10-2014	7th / Mechanical Engineering	29	10:00 am to 01:00 pm	Prof. Jayesh Jariwala Prof. Sandip Parmar Prof. Kapil Gohil Prof. Darshan Kapadia Prof. Pratik Patel
<b>Total No. of Visitors = 34 ( 29 No. of Students + 05 No. of Faculties )</b>				



- Mr. Jayesh Jariwala (Assistant Professor, Mech. Engg. Dept.) Expert in **CAD-CAM** and Mr. Pratik Patel (Assistant Professor, Mech. Engg. Dept.) Specialized in **Machine design** were appointed as a faculty co-ordinator.
- Students have visited the various departments of the workshop like Powder coating shop, laser cutting machine, pre-machining process, machining process, post machining process etc.



A Group Photo – Visit at Peass Industrial Engineers Pvt. Ltd., Navsari ( 04-10-2014)