

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE (UGC - AUTONOMOUS)

Report on
Industrial Visit
to
“Architecture, Construction and Engineering (ACE) Tech-2017”
Department of Civil Engineering - MITS
8th October 2017



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As a part of applying innovative technology in Engineering, Procurement and Construction, we, the faculty and II year students of Civil Engineering, went for an Industrial Visit to ET ACETECH2017 held at Bangalore International Exhibition Center, Tumkur Road, Bangalore, Karnataka on 8th October 2017.

General Information

The Economic Times ACE TECH is a leading trade fair in Asia for architecture, building materials, innovation and design and only third-of-its-kind in the world. This unique forum offers opportunities not only to exhibit but also to create a long-lasting impression on the decision makers of the architecture, building materials, innovation and design industries. The scale of the exhibition has been phenomenal and each year ET ACE TECH witnesses the finest national and international brands, eminent architects, real estate developers, hoteliers, equity investors, builders, engineers and designers from India and the world. Top government authorities and stalwarts of the said industries have graced the event over the years.

Economic Times ACE TECH curates an exclusive exhibition to incubate and support innovation in the industry. Exhibitors from around the world showcase their potential by providing detailed demonstrations of latest products and services within industry segmented pavilions. The allied events and conferences held during the exhibition, aim to bring industry leaders and government bodies together to network, exchange ideas and invest in a progressive nation-building activity. The Economic Times ACE TECH is thereby an enabler that creates a knowledge-sharing platform and a global market to propagate business development of its participants.

Purpose of Visit

The objective of this industrial visit is to help students gain first-hand information regarding the various state of the art engineering materials and technologies available in the construction industry. An industrial visit helps to

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bridge the gap between classroom and the real field world. Industrial visits give students insight into their future professions by giving them the opportunity to observe industrial processes in operation. One of the important objectives of engineering course is desire to prepare graduates to quickly become productive upon entering the workforce. Therefore, industrial visits make students understand the subject to its core and its deeper practical experiences in real field situation. Keeping all the above said points in view, our college Management, Principal and Civil Department faculty members arranged an industrial visit on 8th October 2017 to ET ACE TECH-2017, Bangalore.

What Students Learnt?

- Raw materials used in the preparation of tiles, different processes of tiles preparation and surfacing.
- Area of application of specific tiles, cost per square feet, life span, possibility of breaking/cracking etc
- Different types of sliding windows and doors, casement doors, Lift & slide doors and Slide and fold doors, tilt and turn windows which save space and provide effective ventilation and light
- How to make multiple window design options to suit every individual needs.
- Readymade Swimming Pools which have in-built filtration and swim jet.
- Pipes for different purpose for supplying of hot and cold water, garden hose pipes and rain harvesting pipes, gas, air
- Different types of pipes: PVC, C-PVC, U-PVC, PP-RC, PV AND prepared using different materials, sizes of their availability, different colors and their densities.
- Advantages of using PVC sheets over natural wood.
- Bathroom accessories: GROHE bath fittings, CERA bath fittings, ESS-ESS bath fittings, FUTURA sinks,
- Kitchen sinks: Different types, cost and its installation process
- Usage of Brackets & U-clamps in different ways.
- Sanitary: CERA sanitary ware, FRP/GRP manhole covers of different types and shapes.
- Different types of cements: ACC cement, JSW cement,
- Portland Slag Cement: raw materials use and preparation process of slag cement preparation, chemical composition, reaction of slag cement with water, properties of slag cement, strength of concrete prepared using slag cement, advantages, comparison of properties and strength with normal OPC cement, application areas of the slag cement
- Different types of lights used for different purposes, application areas, different technologies in lighting, life span, consumption of power, energy savings, cost comparison of different lighting system
- Carpentry works: different types of cup board
- Building construction using steel columns,
- How to design work spaces which gives more comfort and aesthetic appearance in offices.
- How to make entrance of all types of building elegant with designs.
- How to select the Elevators or Escalators based on the space, installation, operation and maintenance costs?
- Various components of elevators and escalators and various types of door openings like center opening, telescopic, swing doors, collapsible doors and frameless glass doors.
- Technology related to household water softeners
- Various types of door handles, embellishments on doors and different types of railing.
- Different types of adhesives and paints used in the construction for various purposes and its applications.

Students' feedback

After the visit, students' feedback was collected on 10-10-2017. The summary of feedback is given below:

- Through this type of visits, the students knew how to apply learned concepts practically in the field.
- Got information about various innovative materials available in market (Tiles, Windows, paints, Plumbing components)
- Came to know about advanced manufacturing processing for tiles, windows and doors for durability and elegance appearance.
- Students felt very much happy for participating in technical quiz and exams conducted by different exhibitors
- Students expressed their sincere thanks to Management, Principal, HoD and faculty of the department for arranging this visit.
- The students felt that, this type of field/industrial visits is necessary once or twice in a semester to improve practical knowledge on the subjects.