



# **INDUSTRIAL VISIT REPORT**

**DEPARTMENT OF  
ELECTRONICS & TELECOMMUNICATION  
ENGINEERING**

**Dr. D Y Patil School Of Engineering &  
Technology, Charoli, Lohegaon Pune**

**B.E. (E&TC)  
(On 13<sup>th</sup> of February, 2016)**

**PLACE OF VISIT :-**

**GLOBAL CALIBRATION,  
NAGAR ROAD  
VIMAN NAGAR, PUNE.**

## IMPORTANT INFORMATIONS REGARDING THE INDUSTRIAL VISIT:

**Name of Industry / Centre Visited** : Global Calibration, Viman Nagar, Pune.  
**Resource person of the company** : Mr. Jetain Malhotra, Mr. Nageshwar Sharma,  
Mr. Mahesh Tarate.  
**Contact Number** : 9890275278

### **Background of the Company / Industry / Centre Visited:**

Global Calibration is pioneer in providing technical services to major industrial corporate Like LG Electronics, Whirlpool, Jabil Circuits, Haier Appliances etc. The Company has three branches in India (Delhi NCR, Pune, and Hyderabad) and overseas branches at Kenya and Dubai. The company has specialization in the field of Electro technical, Mechanical, Pressure and Thermal fields. Global Calibration is NABL accredited calibration laboratory and the calibration certificates issued are accepted worldwide. **GC has secured national award for Quality Excellence.**

### **Name of Resource Person to initiate communication with the company:**

**Prof. Sarika Malhotra**, Asst. Professor in E&TC Department, Dr. D Y P S O E T.

### **Name(s) of Approving Authority:**

Prof. (Dr.) Ashok Kasnale, Principal, Dr. D Y P S O E T & Prof. M. G. Wani, HOD (E&TC), S.O.E.T.

**Date of communication for seeking permission for Industrial Visit:** 13<sup>th</sup> of Feb, 16.

**Mode of communication** : Via Email  
**Date of visit** : 13.02.2016 at 10.00 a.m. to 4.00 p.m.  
**Students details** : Final Year student of B.E.(E&TC), S.O.E.T.  
**Total Strength** : 29 students, 02 faculty members & 01 lab-assistant.

## OBJECTIVES / BENEFITS OF VISIT TO STUDENTS AND COLLEGE

- The students had hands on experience on **Audio Video** instrument like pattern generators, modulators, spectrum analyzers, which are now-a-days, a part and parcel of display devices production industries for LED TV's, LCD, Ultra HD TV's, which are used in our day to day life.
- The students had an exposure to the various Test Patterns and composite video signal which has an integral part for the alignment and quality control of all types of display panels.
- The calibration procedures pertaining to the **Audio Video** instrument were explained to the students. Students were also explained about the calibration importance and procedures for Dimension, Thermal and Electrical calibrations.
- Scope for getting projects for final year students were explored and the quality manager of Global Calibration assured that he will extend all possible help & will be instrumental in assigning industrial projects to students and guide them.

- The probabilities of placements will enhance as the firm has tie ups with many production companies.

### DETAILS OF INDUSTRIAL VISIT TO GLOBAL CALIBRATION dtd. 13.02.2016

The department of Electronics & Telecommunication, Dr. D Y Patil School Of Engineering & Technology organized one day Industrial visit to **GLOBAL CALIBRATION, Viman Nagar, Pune** on 13<sup>th</sup> of February, 2016 for final year students of B.E. (E&TC).

The visit was organized with the prior permission and guidance of Hon. Principal **Dr. Ashok Kasnale** and HOD of E&TC Department **Prof. Mukund Wani**.

29 students of B.E. (E&TC) along with faculty & staff members Prof. Sarika Malhotra, Prof. Vivek Srivastav, & Mr. Amol Shingare attended the industrial visit which started at 10.00 a.m. & concluded at 04.00 p.m.

### TECHNICAL DISCUSSIONS DURING THE INDUSTRIAL VISIT

The entire students & faculty members were divided into two groups and separate trainers were allotted to each group. The training started with a introduction regarding the various instrument used in production of LCD,LED,UHD TV"s along with its calibration techniques being adopted by labs and industries, followed by lecture and then practical demonstration of instrument set ups like Video Patterns generation and streaming , AM FM Setup, Signal level strength monitoring set ups etc. The demonstration and introduction to all types of instrument like micro wave measurement system , Anemometer , Tachometer , HD Pattern generator portable one which are in line with the latest trends and technology were shown and explained to the student.



### GLIMPSES OF INSTRUMENT BEING DEMONSTRATED BY TRAINERS OF GLOBAL CAL

## HANDS-ON TRAINING ON SIGNAL TRANSMISSION:

The lecture was followed by hands on training on various signal generation and transmission tools, one of which was an actual setup as used in TV manufacturing industry to create a central signal system in the company to transmit test patterns.

The photograph illustrates the trainer demonstrating the components of an actual setups being used in the industry.



## HANDS-ON TRAINING ON CALIBRATION:

The students have been given an opportunity for hands on training on various calibration set ups like Multifunction Fluke Calibration System, Composite Video Signal Calibration, Very low temperature calibration system etc.. The students were divided into three groups for calibration training purpose. The calibration concepts were explained in three labs i.e. **Audio Video** lab, Thermal, Mechanical and respectively.

The trainers, in this photograph is demonstrating the methods for calibration of the instrument along with the importance of calibration as a very handy quality tool to judge the overall quality of the production/ manufacturing system. The sense and requirement of precision in manufacturing industry was explained well. Actual calibration certificates were shared with the students and techniques for interpretation of the calibration data was also explained.



The entire training was primarily based on the **Audio Video** instrument, its calibration automation and its installation and usage by Audio **Video** production Industries. The practical set up and now-a-days trends explained very much informative for the students. It gave a lot of practical exposure to the students regarding the **Audio Video** instrument, its networking, calibration and generation central signal system for manufacturing of HDTV, LED's etc. The students came to know about the recent trends being followed in industries.





**Group Photograph of Students of Dr. DYPSOET at GLOBAL CALIBRATION**

**Prof. Sarika Malhotra**  
**(Coordinator for Training & Industrial Visit)**  
**Assistant Professor,**  
**Department of E&TC, DYPSOET**

**Prof. Mukund. Wani**  
**HOD (E&TC),**  
**Assistant Professor,**  
**Department of E&TC, DYPSOET**