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## **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

SL.NO	DETAILS OF THE EVENT	
1.	TITLE OF THE EVENT	INDUSTRIAL VIST
2.	YEAR - SEMESTER	2023 3 <sup>RD</sup> SEMESTER
3.	DAY AND DATE	01-12-2023 FRIDAY
4.	VENUE	PENYA INDUSTRY , BANGALORE 560058
8.	ORGANIZED BY	ECE Department
9.	CO-ORDINATED BY	Dr. Bharathi Gururaj, Associate Professor &HOD, ECE
10.	FACULTY INCHARGE	Mr. Nagesh H B Mrs . Chandrakala G.S
11.	PARTICIPANTS	II Year ECE Students
12.	BRIEF SUMMARY OF THE EVENT	Report Enclosed
13.	PHOTOS	Photos Enclosed.





# Report On INDUSTRIAL VISIT

**Name of event** :- INDUSTRIAL VISIT

**Date of event** :- 01-12-2023 Friday

**Place of event** :- PENYA INDUSTRY , BANGALORE

**Organized by** :- Electronics and Communication Engineering department

**Resource person**: MR.AMAR

## **Introduction:-**

At 10:30 am morning session was started by Mr.Amar Resource person . Firstly he started with the introduction about the company .

- This Company was started sixteen years ago i.e. in the year 2007.
- DiFacto is headquartered in Bangalore with engineering branch offices in Pune , Gurgaon and Coimbatore.
- Then we learnt about Automated Train coach welding with Robots
- Train coach welding deals with the position of links which are connected with the help of joints
- It generally gives the position and orientation of every link present in the robot manipulator to place in the particular target.
- We also learnt about different types of robots namely FANUC , ABB and KUKA Robot



### **FANUC ROBOT :**

- It is the automation for manufacturing of CNCs and motion control and ROBOMACHINE machine centers
- FANUC robots are linked up to a single internet network
- Their movements are controlled by the computer system
- It is the six axis robot , which is in many sizes and shapes
- They are generally coated with yellow paints , there may be coated with other colour paints also.
- A fanuc robot usually used to assemble car windshields , computer keyboards , airplane components such as motors, among many other items .
- There will be four cabinet for each controller
- To jogging the robot we need to switch deadman switch

### **KUKA ROBOT:**

- Kuka robot was manufactured by students .
- It is generally present in all the industries .
- Allows the automation and optimization of production by carrying out various task
- It is automatically controlled , multi –active , versatile and programmable system
- It is linear robot that moves on there orthogonal axes
- It has a capacity to carry heavy load



## ***PLC ( PROGRAMMABLE LOGIC CONTROLLER ) :***

- We were even taught about PLC control panel
- It contains five basic components processor unit , memory , the power supply unit , input/output interface section and the programming device.

## ***CONCLUSION:***

- We were taught about what was server motor too. Its is nothing but a feedback
- We were asked about ,  
Why are robots are important in our daily life?
- They increase productivity
- Robots perform repetitive task infinite times , it never gets tired
- Time saving ,consistency , accuracy, productivity , and quality.

## **PHOTOS OF STUDENTS INDUSTRIAL VISIT**







HOD  
 Dr. S M Vijaya  
 HOD  
 Dept. of ECE  
 ACS College of Engineering  
 Bangalore

Anand B Gudi  
 05/02/2023  
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