A report

on

Industrial visit



Efftronics Systems Pvt Ltd Mangalagiri

Date of visit: 23.12.2022

by



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING KONERU LAKSHMAIAH EDUCATION FOUNDATION

(Deemed to be University estd, u/s, 3 of the UGC Act, 956) (NAAC Accredited "A++" Grated University) Green Fields, Guntur District, AP, India – 522 502

INDUSTRIAL VISIT EFFTRONICS PVT LTD, MANGALGIRI

DATE : 23. 12. 2022

SECTION: III YEAR

EVENT: Industrial Visit/ Field Visit

Faculty Coordinators:

1) Dr. Lakshman Pappula, Associate Professor & Dy. HoD, ECE

2) Dr. S. Arunmetha, Associate Professor, ECE

3) Dr. A Aravindhan, Associate Professor, ECE

4) Ms. V Sahiti, Assistant Professor, ECE

EVENT DESCRIPTION:

An industrial visit has been organized by the department of Electronics and Communication Engineering for III-year II semester students on 23-DEC-2022 between 14:00 to 17:00hrs. The visit's main objective was to provide technical exposure to acquiring practical knowledge in Electronic System Design, the Internet of Things, and Smart systems. Total 59 students of III-year ECE of KLEF visited Efftronics Systems Pvt Ltd, Mangalagiri along with the 4 faculty Coordinators. The industry people gave a seminar about their company Efftronics and their present ongoing projects smart signaling, smart cities, LED, PCB manufacturing and discussed IoT. After that, we went into the industry, and they showed their projects and gave demonstrations about all their projects.

ABOUT THE COMPANY:

Efftronics Systems Pvt. Ltd. is a CMMI Dev Level 3 Ver 2.0 appraised Company. It is an end-to-end IoT solution provider Smart & Innovative Solutions for Smart Cities, Buildings, Signaling for railways & IoT Services by Automation and Digitization for Vibrant Lives. With a focus on continuous value identification, creation, and delivery, Efftronics indigenously developed 50+ innovation solutions in the last three decades. Solutions include the Largest IoT network connecting 6 million+ signalling assets of Indian Railways spreading across 9000+ locations improving system availability through predictive maintenance, increasing safety by eliminating accidents, optimizing train operations, etc. Smart drinking water distribution system for cities ensuring 135 LPCD for every household, reducing unaccounted-for water (UFW) by 20%, ensuring timely and equitable distribution of water supply. AI-based Adaptive traffic management system for cities reducing travel times.

SESSION ACTIVITIES DURING EFFTRONICS VISIT:

Students visited Efftronics and learned about

- Data Loggers
- Different types of sensors and Actuator equipment
- Different types of multi-color display systems
- Battery monitoring unit & Signalling Systems
- IoT Security Systems
- PCB Design, Manufacturing, and Assembling

Efftronics staff explained chip design, PCB Design, and IoT. They also briefly explained the production system, Data loggers, customer data analysis sector, Batteries, storage, and R & D division. They have shown how to develop LEDs and different types of LEDs and their applications. They were explaining a brief about company products and how many live projects are going on and how they are satisfied with the customer. All over India there are being installed and maintaining dataloggers around 9000+ railways stations. Further, they explained what different types of sensors and IoT have been used for appropriate applications

They are mainly Six sections introduced and the manufacturing process is explained they are Prototype Testing of Data Logger for Indian Railway

LED Testing & Designing Section: in this section, they are explained various types of LEDs and their wavelengths, and high bright LED. Etc.

PCB Designing and Manufacturing:

They clearly explained about Types of PCBs

- 1. Single side
- 2. Double-side PCB
- 3. multi-layer

Clearly explained through live demonstration in the fabrication room all stages of the process from the Designing, verification, developing, Screen Printing, Automatic and semiautomatic components mounting, Manual mounting, Testing, and verification. Followed by Pre curing and Post curing and testing techniques, assembling, and Quality assessment including the final stage of the Device.

Photo Gallery of Visit



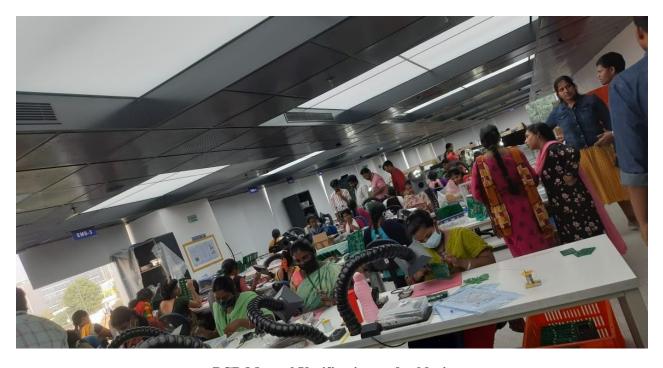
During Seminar Session



PCB Screen Printing



PCB Components Automatic Pick and Place Machine



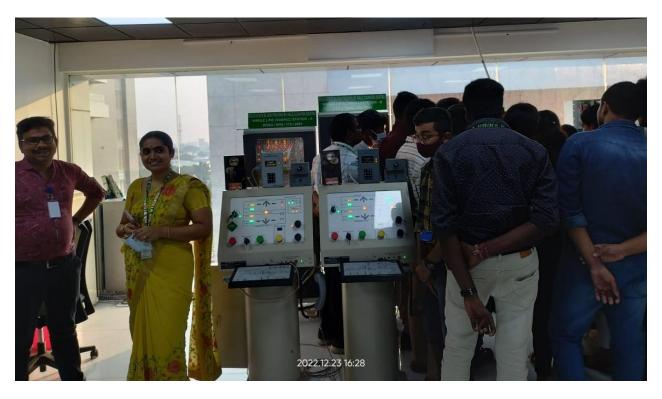
PCB Manual Verification and soldering



PCB Final Curring and Verfication and Testing



IoT Signalling Application



IoT Data Logger



Final Consolidation and Feedback Session

Industrial Visit Permission Letter

From

Prof. M. Suman

HoD, ECE

KLEF (Deemed to be University)

Green Fields, Guntur, Andhra Pradesh

To

The Principal

College of Engineering

KLEF (Deemed to be University)

Green Fields, Guntur, Andhra Pradesh

Through: Proper Channel

Respected Sir,

Sub: Permission to visit the Efftronics Systems Pvt. Ltd. – Reg.

I would like to inform you that, we are planning to arrange the Industrial visit to our second year ECE students. In view of the above, we received the confirmation mail from the Efftronics Systems Pvt Ltd and they have given the Industrial visit allotment Scheduleon 10-SEP-2022 between 14:00 to 17:00hrs. We believe that this industrial visit useful to our ECE students to acquire practical knowledge in Electronic System Design and the Internet of Things.

Details of the Industrial Visit Plan:

Company Name: Efftronics Systems Pvt Ltd

Address: Plot No.4, IT Park, Auto Nagar, Mangalagiri, Guntur District - 522503.

Date and Time: 10. 09. 2022 at 1.30 pm to 05.00pm

Students: Second year ECE, Section-1 (58 Members)

Faculties: Four Faculty Members (Three Male faculties and one Female Faculty)

As per the plan of visit our four faculty members also accompany, I request you to give permission to visit Efftronics Systems Pvt. Ltd. and provide the transport facility.

Thanking you,



Dr. MAN
Professor Head
Department of ECE
KLEF

Yours Sincerely.

Green Fields, Vaddeswaram Guntur Dist., A.P. PEN: 522.502

Fwd: PERMISSION LETTER FOR INDUSTRIAL VISIT-req

Arunmetha S <sarunmetha@kluniversity.in>

Wed 07-09-2022 15:49

To: Office ECE <office_ECE@kluniversity.in>

Get Outlook for Android

From: HRDCELL <hr@efftronics.com>
Sent: Friday, August 26, 2022 3:39:34 PM

To: Arunmetha S <sarunmetha@kluniversity.in>

Cc: Dr Santhosh C <csanthosh@kluniversity.in>; K Rajesh Babu <krajeshbabu@kluniversity.in>; Lakshman Pappula

<a href="mailto:lakshman.pappula@kluniversity.in; Suman Maloji <suman.maloji@kluniversity.in>

Subject: Re: PERMISSION LETTER FOR INDUSTRIAL VISIT-reg

Dear Sir,

Greetings of the Day...!

As a part of extension of our co-operation to Academic Institutions and to ignite aspirations of students towards Research we have been organizing Industrial Visits as per your request.

As accomadating all the students (418) at a time may not possible, visit will be conducted with a **limit of 40-45 students**.

As per our Industrial visit allotment Schedule, we would like to give a **tentative date** for college visit on **10-SEP-2022** between **14:00 to 17:00hrs**.

Please revert us back for confirmation.

Regards, Srupanika D, HRD, Efftronics Systems Pvt Ltd. +91 8645-666777

From: Arunmetha S <sarunmetha@kluniversity.in>

Sent: Wednesday, August 10, 2022 4:55 PM

To: HRDCELL < hr@efftronics.com>

Cc: Dr Santhosh C <csanthosh@kluniversity.in>; K Rajesh Babu <krajeshbabu@kluniversity.in>; Lakshman Pappula <lakshman.pappula@kluniversity.in>; Suman Maloji <suman.maloji@kluniversity.in>

Subject: PERMISSION LETTER FOR INDUSTRIAL VISIT-reg

You don't often get email from sarunmetha@kluniversity.in. Learn why this is important

Dear Sir/Madam,

On behalf of KLEF, I serve as the Associate Professor in the Department of ECE. I wish to request permission to conduct an industrial visit to your company. KLEF is reputed for providing quality education

From

Dr. S. Arunmetha

Associate Professor, ECE

K L E F (Deemed to be University)

Green Fields, Guntur, Andhra Pradesh

To

The Registrar

K L E F (Deemed to be University)

Green Fields, Guntur, Andhra Pradesh

Through: Proper Channel

Respected Sir,

Sub: Permission to visit the Industry and Transportation - request- Reg

I would like to inform you that, we are planning to arrange the Industrial visit for our third year ECE students. In view of the above, we received the confirmation mail from Efftronics Systems Pvt Ltd.

Details of the Industrial Visit Plan:

Company Name: Efftronics Systems Pvt Ltd

Address: Plot No.4, IT Park, Auto Nagar, Mangalagiri, Guntur District - 522503.

Date and Time: 23, 12, 2022 at 1,30 pm to 05,00 pm

Students: Third year ECE, (70 Members)

Faculties: Four Faculty Members (Three Male faculties and one Female Faculty)

As per the plan of visit our four faculty members also accompany us, I request you to provide permission to visit Efftronics Systems Pvt Ltd and provide the transport facilities.

Thanking you,

Yours Sincerely.

Encl:

Permission Letter from Industry

Transport Requisition Form

Dr. A. JAGADEESH REGISTRAR (I/C)



K L University

(Koneru Lakshmaíah Education Foundation) Deemed to be University, Estd. u/s 3 of UGC Act, 1956

Accredited by NAAC as 'A' Grade University Approved by AICTE + ISO 9001-2008 Certified Campus: Greenfields, Vaddeswaram - 522 502, Guntur District, Andhra Pradesh, INDIA. Phones: +91-8645-246948, 246615 Fax: +91-8645-247249.

AdmIn Off: 29-36-38, Museum Road, Governorpel, Vijayawada - 520 002, Ph:+91-866-2577715, Fax: +91-866-2577717.

Transport Requisition

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(505 01000 Party 21/22)

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