



Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by NAAC as 'A++' ♦ Approved by AICTE ♦ ISO 21001:2018 Certified

Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

INDUSTRIAL VISIT EFFTRONICS PVT LTD, MANGALGIRI

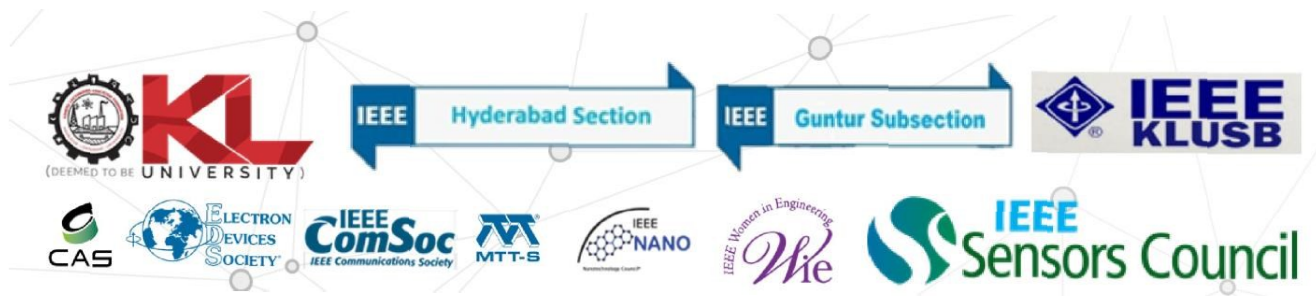
DATE : 23. 12. 2022
SECTION : II YEAR
EVENT : Industrial Visit/ Field Visit

Faculty Coordinators:

- 1) Dr. Lakshman Pappula, Associate Professor & Dy. HoD, ECE
- 2) Dr. S. Arunmetha, Associate Professor, ECE
- 3) Dr. A Aravindhana, Associate Professor, ECE
- 4) Ms. V Sahiti, Assistant Professor, ECE

EVENT DESCRIPTION:

An industrial visit has been organized by the IEEE Student Branch and 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.



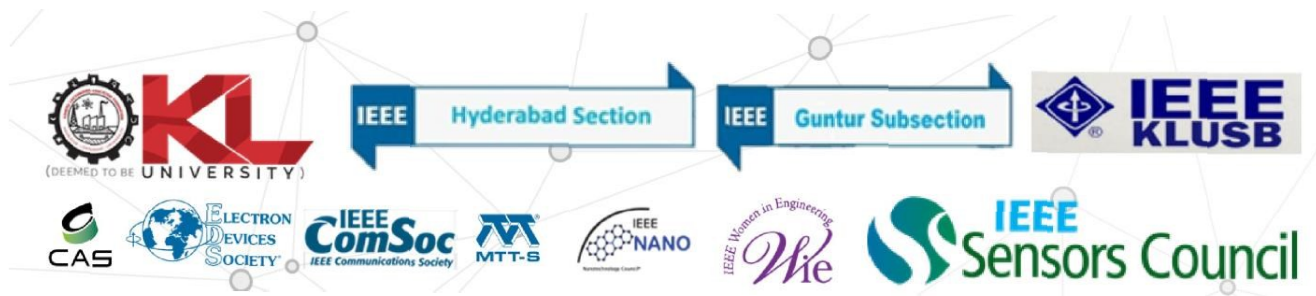
ABOUT THE COMPANY:

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.

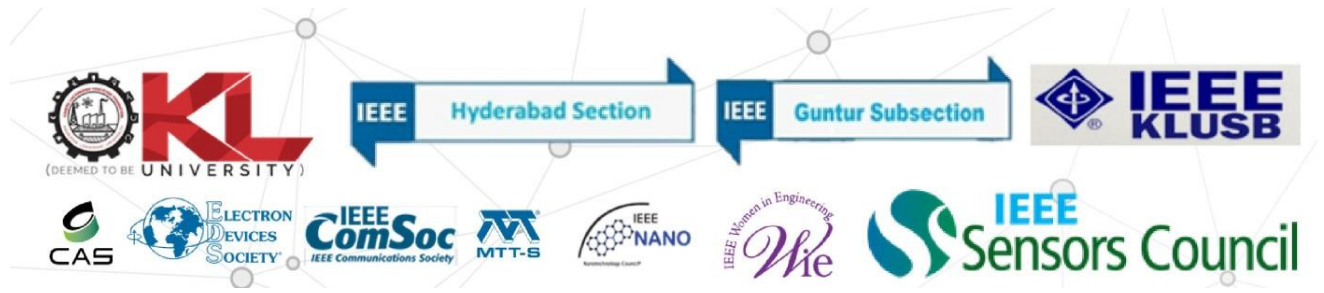


Photo Gallery of Visit



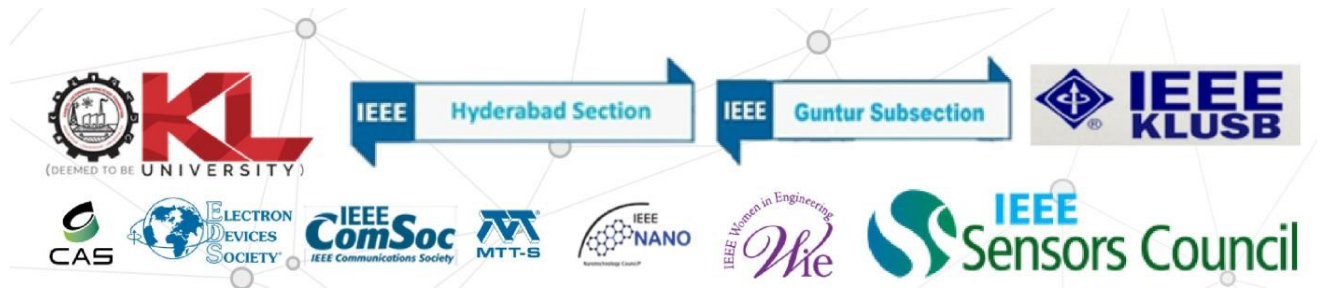
Group Photo in front of Effectronics Company @ Mangalgeri



During Seminar Session



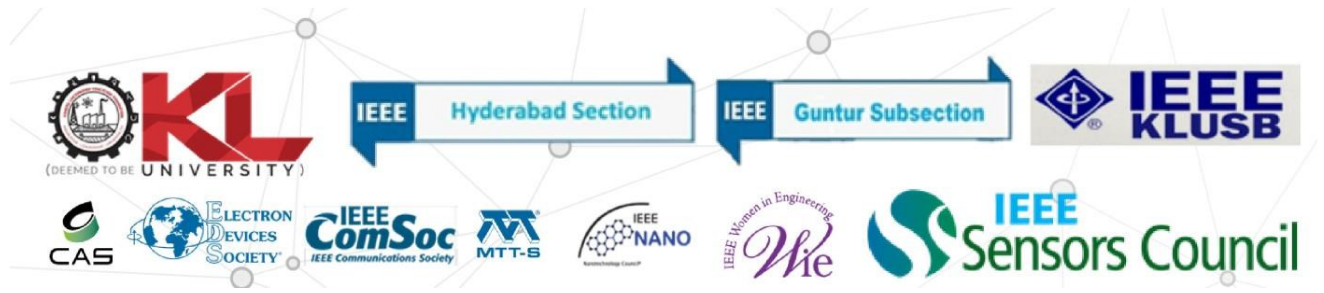
PCB Screen Printing



PCB Components Automatic Pick and Place Machine



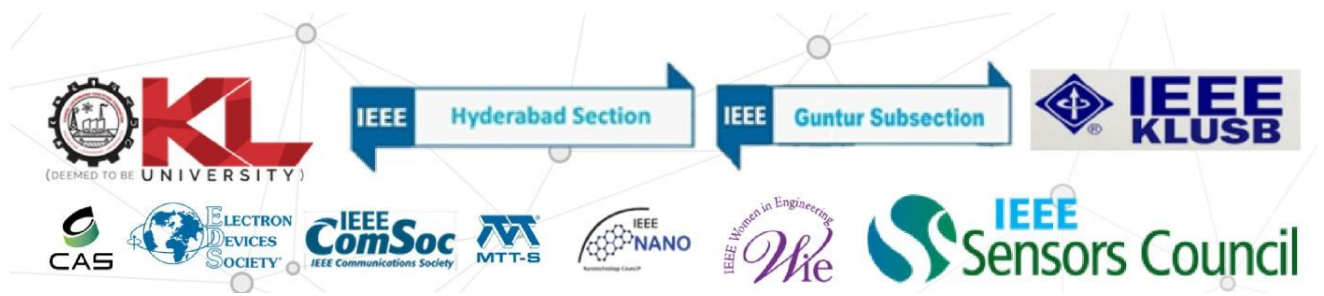
PCB Manual Verification and soldering



PCB Final Curring and Verification and Testing



IoT Signalling Application



IoT Data Logger



Final Consolidation and Feedback Session



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Ref: KLEF/RO/ECE/CIRCULAR

Date: 16-12-2022

CIRCULAR

Sub: Organizing event "Field Visit" for the 2nd year students of Electronics and Communication Engineering, of Vaddeswaram Campus of KLEF – Reg.


This is to inform that the Department of Electronics and Communication Engineering, KLEF, is Organizing a "Field visit to EFFTRONICS pvt Ltd, Mangalagiri" for the students of Electronics and communication Engineering, Vaddeswaram Campus of KLEF on, 23.12.2022, as details below:

Event Name: "Field visit to EFFTRONICS pvt Ltd, Mangalagiri"
Date: 23.12.2022
Venue: EFFTRONICS Ltd

All the 2nd Year students of ECE, are invited to attend this program.

Dy-HOD's & Year coordinators are requested to bring this information to the attention of all 2nd Year ECE students and encourage them to participate in this program.

To
All ECE Students,
All ECE Faculty,
Principal.


HOD-ECE
Dr. M. SUMAN
Professor & Head
Department of ECE
KLEF
Green Fields, Vaddeswaram
Guntur Dist., A.P. PIN: 522 502



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S.No.	Reg No	Dept	Year	Name of the Student	Signature
1	2000040263	ECE	2	RANAGANI YOJANA SNOHI	
2	2000040306	ECE	2	Akkapeddi Venkata Naga Nithin Datta	
3	2000040179	ECE	2	VARI GAYATHRI	V. Gayathri
4	2000040164	ECE	2	YARRAGUNTLA DEEPIKA JYOTHI	
5	2000040114	ECE	2	PONNURU SRI VARSHA	Ponnuru Sri Varsha
6	2000040130	ECE	2	SHAIK ALTHAF HUSSAIN	S. A. Hussain
7	2000040066	ECE	2	KAMBHAMPATI HAVEELA	
8	2000049020	ECE	2	CHINTAPALLI ARCHANA CHOWDARY	
9	2000040106	ECE	2	PATNAIK MOHAN SANDEEP	P. Sandeep
10	2000040152	ECE	2	VANGA SAI TARUN REDDY	V. Sai Tarun
11	2000040148	ECE	2	TUMMALA HRUDAY	
12	2000040031	ECE	2	DADANI POOJA	D. Pooja
13	2000040311	ECE	2	KATTA RAMANJANEYULU	K. Ramanjaneyulu
14	2000040145	ECE	2	KOLLURU TARAKA CHANDRA SRIKAR	K.T. Chandra Srikar
15	2000040321	ECE	2	MIRIYALA ABHIRAM	M. Abhiram
16	2000049014	ECE	2	JEENEPALLI JWALA NARASIMHA	
17	2000049047	ECE	2	ATLURI VASANTH SAI	Vasanth Sai
18	2000040201	ECE	2	MUTYALA HORA SATYA MADHU BABU	M. S. M. Babu
19	2000049048	ECE	2	TAMMANA KESAVA SAI AMITH	T. K. Sai Amith
20	2000040139	ECE	2	SUNDARAPU DHARMENDRA	Sundarapu Dharmendra
21	2000040057	ECE	2	JONNADULA TEJA SREE VIJAY KUMAR	J. T. Sree Vijay Kumar
22	2000040080	ECE	2	KORUKONDABATTAR VARUN KRISHNA	
23	2000040308	ECE	2	SINGAMSETTI NAGA MANIKANTA	S. Manikanta
24	2000040033	ECE	2	DHARANIDHAR KOMMERLA	
25	2000040302	ECE	2	MEKALA VARUN	M. Varun
26	2000040185	ECE	2	VADDESWARAM SHALIN RAJU	V. S. Raju
27	2000040040	ECE	2	SATHVIK GANGARAJU	S. Gangaraju
28	2000040315	ECE	2	Yenduri Siva Prasad	Y. S. Prasad
29	2000040259	ECE	2	SANAGALA KIRAN REDDY	
30	2000040299	ECE	2	GORRELA DILEEP	G. Dileep
31	2000040279	ECE	2	Sifa Clemence	S. Clemence
32	2000040264	ECE	2	KADALI DURGA SRI RAM	
33	2000040285	ECE	2	sri sai durgesh prasad mucharla	
34	2000040280	ECE	2	MEKA VENKATA SAI BABU	M. Venkatasai Babu
35	2000040123	ECE	2	GOLLAPALLI SAI GOUTHAM	G. Sai Goutham
36	2000040251	ECE	2	VYSYARAJU JASWANTH RAJU	
37	2000040312	ECE	2	Dharnasi Rajesh	D. Rajesh



IEEE Hyderabad Section

IEEE Guntur Subsection



IEEE Sensors Council

S.No.	Reg No	Dept	Year	Name of the Student	Signature
38	2000040008	ECE	2	MORAMPUDI ASRITHA	M. Asritha
39	2000040143	ECE	2	TAMMA MONIKA REDDY	Tamma Monika Reddy
40	2000040277	ECE	2	PRAGNESH RAM VADLAMUDI	V. Pragnesh Ram
41	2000040206	ECE	2	SHAIK MUNNA	Shaik Munna
42	2000040009	ECE	2	KAMMUR ATAHAR	Kammur Atahar
43	2000040050	ECE	2	INAVOLU VISHNU SAKETH	Saketh
44	2000040063	ECE	2	KAJJA JANARDHANA RAO	K. Janardhana Rao
45	2000040067	ECE	2	KANCHARLA VEERA VENKATA SATYA SANDEEP	K.V.V. Satya Sandeep
46	2000040072	ECE	2	POLANKI KASYAP	P. Kasyap
47	2000040076	ECE	2	KONDEPATI ROHITH	K. Rohith
48	2000040095	ECE	2	MUCHINTALA JAGADEESH	Muchintala Jagadeesh
49	2000040100	ECE	2	GATTUPALLI NAGA VENKATA SURYA	G.N.V. Surya
50	2000040109	ECE	2	PARISHA SAI CHARAN TEJA	P. Sai Charan Teja
51	2000040112	ECE	2	PEDDIREDDY SRIKAR SWAMI NAIDU	P. Srikar Swami Naidu
52	2000040142	ECE	2	T K DEVENDRA KUMAR	T.K. Devendra Kumar
53	2000040144	ECE	2	TANDRA SHEETHAL	Tandra Sheethal
54	2000040167	ECE	2	Cherukupalli Lakshmi Sai Ganesh Kumar	C.L. Sai Ganesh Kumar
55	2000040205	ECE	2	Janam Sravan Kumar	J. Sravan Kumar
56	2000040296	ECE	2	MEDURI SRI SRUTHI	M. Sri Sruthi
57	2000040316	ECE	2	ATKURI VENKATA SATYADEV	A.V. Satyadev

S. Anand

Convener/ Co-Ordinator

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S. Anand

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Dr. M. SUMAN
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