



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

A One-Day Workshop On “IoT Sensors and Actuators “

EMBEDDED AND IOT TECHNICAL CLUB

Department Of ECE

Name of the event:IoT Sensors and Actuators

Dates:25-09-2026

Venue:R-105

No.of students participated: 23

Objective of the event:

The objective of this workshop is to introduce students to the basic concepts of IoT sensors and actuators. It helps participants understand how sensors collect data from the environment and how actuators perform actions based on control signals. Students will learn to interface sensors and actuators with microcontrollers. The workshop provides practical exposure through hands-on activities and demonstrations. It also helps students understand basic IoT applications and hardware connections. Participants will gain practical knowledge of sensing and control systems. The event encourages students to explore real-world IoT projects. Overall, it aims to develop basic IoT and hardware prototyping skills.

Description of the event:

The workshop is a practical, hands-on session focused on understanding and working with commonly used IoT sensors and actuators. Participants will be introduced to different sensors used for measuring parameters such as temperature, light, motion, and environmental conditions. They will also learn about actuators such as LEDs, motors, buzzers, and relays. Students will practically connect these components to a microcontroller and observe their operation. The workshop will demonstrate how sensor data can be processed and used to

control an actuator. Participants will perform simple experiments to understand real-time sensing and control. The session will combine short technical explanations with practical demonstrations and activities. By the end of the workshop, students will have experience in building a basic sensor-and-actuator-based IoT system.

Outcome of the event:

After completing the workshop, participants will have a clear understanding of the basic concepts of IoT sensors and actuators. They will be able to identify different types of sensors and understand their practical applications. Students will gain hands-on experience in connecting sensors and actuators with microcontrollers. They will understand how sensor readings can be processed to make decisions in an IoT system. Participants will also learn how actuators can be controlled based on sensor inputs. The practical activities will improve their hardware interfacing and troubleshooting skills. Students will gain confidence in developing simple IoT prototypes using commonly available components. The workshop will provide a foundation for exploring more advanced IoT, embedded systems, and smart automation projects.

Photos of the event:





Participant's List:

S. NO	STUDENT ID	STUDENT NAME	DEPT	SIGNATURE
1	2400040082	G Bala Aditya Gowtham .	ECE	A Gowtham
2	2400040107	R Sreenivasulu	ECE	R Sreenivasulu
3	2400040178	Bala Ram	ECE	B Ram
4	2400040391	Subhan basha	ECE	Subhan
5	2400040294	Lalitha Sirichandana	ECE	L. Sirichandana
6	2500040022	JaiRam	ECE	Jai Ram
7	2500040137	Shaik Shafi	ECE	Shaik Shafi
8	2400049022	J Akshaya	ECE	J Akshaya
9	2500049020	C Dharani	ECE	C Dharani
10	2500049021	M Tejaswani	ECE	M Tejaswani
11	2500049032	M Rohitha	ECE	M Rohitha
12	2500049018	M Anusha	ECE	M Anusha
13	2500049026	Y Liketeswari	ECE	Y Liketeswari
14	2500049013	T Surya Kowshik	ECE	T Surya Kowshik
15	2500049041	P Vijayavarshini	ECE	P Vijayavarshini
16	2500040131	Venkata Vaageesha	ECE	Vaageesha
17	2500040011	P Sai Shreshta	ECE	P.S.S
18	2500040157	P Bhavya Sri	ECE	P Bhavya Sri
19	2500040197	Bhuvana Kruthi	ECE	Bhuvana Kruthi

20	2500040127	Lakshmi Durga Anjani	ECE	<i>Lakshmi</i>
21	2500040259	K Sreeja	ECE	<i>Ksreeja</i>
22	2500040139	L Pravalika	ECE	<i>Pravalika</i>
23	2500040217	Annapureddy Sonsy Cherybic	ECE	<i>Sony</i>

Atul Kumar
 In charge
 Embedded and IOT Technical
 Club

Dr. L. Govardhan
 05/10/26
 HOD, ECE
Dr. L. Govardhan
 Professor & Head
 Department of ECE
K L E F
 Green Fields, Vaddeswaram
 Guntur Dist., A.P. PIN: 522 302