

# ARDUINO

A Report on Workshop

31<sup>st</sup> March and 1<sup>st</sup> April,

2017

The poster features a central yellow hexagon with the text "Workshop on ARDUINO 31st March & April 2017 by IEEE Guntur Sub Section". Above it are the logos for K L University and IEEE Guntur Sub Section. Below the hexagon is a yellow banner with the text "Hearty Welcome to the Participants". At the bottom are logos for electronics and IEEE Hyderabad Section.

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## K L UNIVERSITY

(NAAC Accredited "A" Grade University)

Koneru Lakshmaiah Education Foundation

(Deemed to be university, Estd .u/s. 3 of UGC Act 1956)

Green Fields, Vaddeswaram, Guntur Dist, Andhra Pradesh, India 522503

Phone: 0863-2399999, [www.kluniversity.in](http://www.kluniversity.in)

## **INTRODUCTION:**

The Workshop "ARDUINO" is a versatile open-source robotics microcontroller which can be used to control robots, design light shows, open your doors automatically and manage 3D printing. Workshop is aimed at bridging the gap between theoretical and sessions and hands –on sessions with practice. On the second day of the workshop after working with the kits the students were taken to Efronics to make the workshop more effective .

## **OBJECTIVES OF THE WORKSHOP:**

IEEE student chapter of KLUUniversity inaugurated a two day workshop on "ARDUINO".

The specific objectives of the workshop is to provide an opportunity for students to get aware of arduino thereby developing a stepping stone towards the development of an Embedded System. . Few of the specific objectives of the workshop are given below:

- Introduction to the open source hardware community of development.
- Knowledge about Arduino hardware.
- Programming in the latest version of Arduino software for Arduino kit.
- Interfacing to real time objects like communication from mobile to computer connected in LAN.
- Utilisation of Arduino development board to create own mini projects like home automation ,waterlevel etc.
- Information Gathering.

## **INGURATION OF WORKSHOP:**

The programme was inaugurated by Dr. M Ramamoorthy fellow IEEE and Chancellor K.L.University, Dr.S.V.N.L.Lalitha IEEE Secretary Guntur subsection, Dr. A.Ananda kumar,Dean Administration K..L.University..The program was started in a new manner where the sessions directly started in the laboratory .

**STRUCTURE OF THE WORKSHOP:**

This was a two day workshop. The workshop was divided into day wise sessions, there were 4 sessions altogether handled by the resource persons from the ECE department. By the end of workshop day participants had rigorous case study exercises. First session was started at 9:30AM by an Introduction to ARDUINO. By this session students had indepth knowledge of ARDUINO and hence were able to technically know how to work with ARDUINO and applications in various domain of present technological era. After lunch second session comprising of various laboratory hands . The laboratory sessions included working with Various peripherals including LED, Switches, Serial Port, Light Dependent resistance, Intensity variation using PWM, Relay Control using TSOP Sensors and many more. The Third session was initiated with a competition among the participants team whereby they used their entire session gained knowledge to do an assigned task in stipulated time where the team completing the given task with minimum time was declared as winner. The final session was made more effective by taking them to Efftronics where every one had visualized the practical use of this Arduino in industries and also in the domestic purposes.

**CERTIFICATE DISTRIBUTION TO PARTICIPANTS:**

Certificate distribution to the participants of ARDUINO Workshop was done by Engineer .Dasari Ramakrishna(**Managing Director Of Efftronics** ) IEEE vice chair along ith Dr S.V.N.L.Lalitha Secretary IEEE Guntur subsection and Dr P.Satyanaryana Resource person ,IEEE|KLUSB presented the certificates to the participants.







## DETAILS OF THE PARTICIPANTS:

SL.NO	Name of the student	Year of study	College/University
1	M.V.Rishika	I/IV	KLU
2	K.Swathi Kiran	I/IV	KLU
3	A.Sirisha	I/IV	KLU
4	M.Sudakshina	I/IV	KLU
5	P.Dhatrishra	I/IV	KLU
6	S.KiranPriya	I/IV	KLU
7	Afroze Jaham Shaik	II/IV	KLU
8	K.Dhanya Aradhana	II/IV	KLU
9	N.Venkata Harshini	II/IV	KLU
10	V.RoopaSree	II/IV	KLU
11	A.Chandra Kiran	II/IV	KLU
12	V.Taraka Rama Reddy	II/IV	KLU
13	O.Sai Tharun	II/IV	KLU
14	B.Venkata Srinivas	II/IV	KLU
15	V.K.Sai Sri Vasthav	II/IV	KLU
16	V.Yaswanth	II/IV	KLU
17	Y.Chenchu Gopal	II/IV	KLU
18	K.Naveen	II/IV	KLU
19	P.Nagarjuna	II/IV	KLU
20	A.ChandraSekhar	II/IV	KLU
21	A.Gurava Reddy	II/IV	KLU
22	P.Vikas	II/IV	KLU
23	M.Sunil Kumar	II/IV	KLU
24	M.Sesha Kumar	II/IV	KLU
25	A.Vikas	II/IV	KLU
26	M.Sankariah	II/IV	KLU
27	A.Anudeep	II/IV	KLU
28	V.Likhil Charan	II/IV	KLU
29	K.Ravi Kiran	II/IV	KLU
30	D.Sri Sai Mahesh	II/IV	KLU
31	K.Balaji	II/IV	KLU
32	M.Adithya	II/IV	KLU
33	V.V.N.S.G.Sathwik	II/IV	KLU
34	P.Sai Charan Reddy	II/IV	KLU
35	B.Nagavardhan	II/IV	KLU
36	M.SriVarun	II/IV	KLU
37	Ch.Hemanth Gupta	II/IV	KLU
38	V.S.H .Vardhan	II/IV	KLU
39	M.Manorama	II/IV	KLU
40	P.S.S.Sugandhi	II/IV	KLU
41	R.Gowtham Sai	II/IV	KLU
42	U.Sasi Kumar	II/IV	KLU

43	M.Praveen Kumar	II/IV	KLU
44	B.Rama Krishna	II/IV	KLU
45	S.Venkatesh	II/IV	KLU
46	Ch.Sai Ram	II/IV	KLU
47	K.Krishna Sai	II/IV	KLU
48	G.jagadeesh	II/IV	KLU
49	GSK.Sankalp	II/IV	KLU
50	M.Akhileswar	II/IV	KLU
51	V.Hemanth	II/IV	KLU
52	Shailesh Kumar	II/IV	KLU
53	Ashish Kumar	II/IV	KLU
54	M.Nikhil	II/IV	KLU
55	P.V.N.R.Varun Teja	II/IV	KLU
56	S.Paratha Sarathy	II/IV	KLU
57	Y.Bhardwaj	II/IV	KLU
58	S.Hari Chandan	II/IV	KLU
59	Ashwani	II/IV	KLU
60	A.Shashidar	II/IV	KLU
61	P.Gopi Chand	II/IV	KLU
62	K.Sudarshan Reddy	II/IV	KLU
63	K.Hari Hara Kumar	II/IV	KLU
64	G.Hemanth	I/IV	KLU
65	K.Rama Krishna	I/IV	KLU
66	V.Surya Atchyuth	I/IV	KLU
67	Y.Bharath Satya Kumar	I/IV	KLU
68	Y.Manikanta	I/IV	KLU
69	J.Satyendra Kumar	I/IV	KLU
70	B.Srinivasu	III/IV	KLU
71	P.Bhaskhar Phani Kumar	III/IV	KLU

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