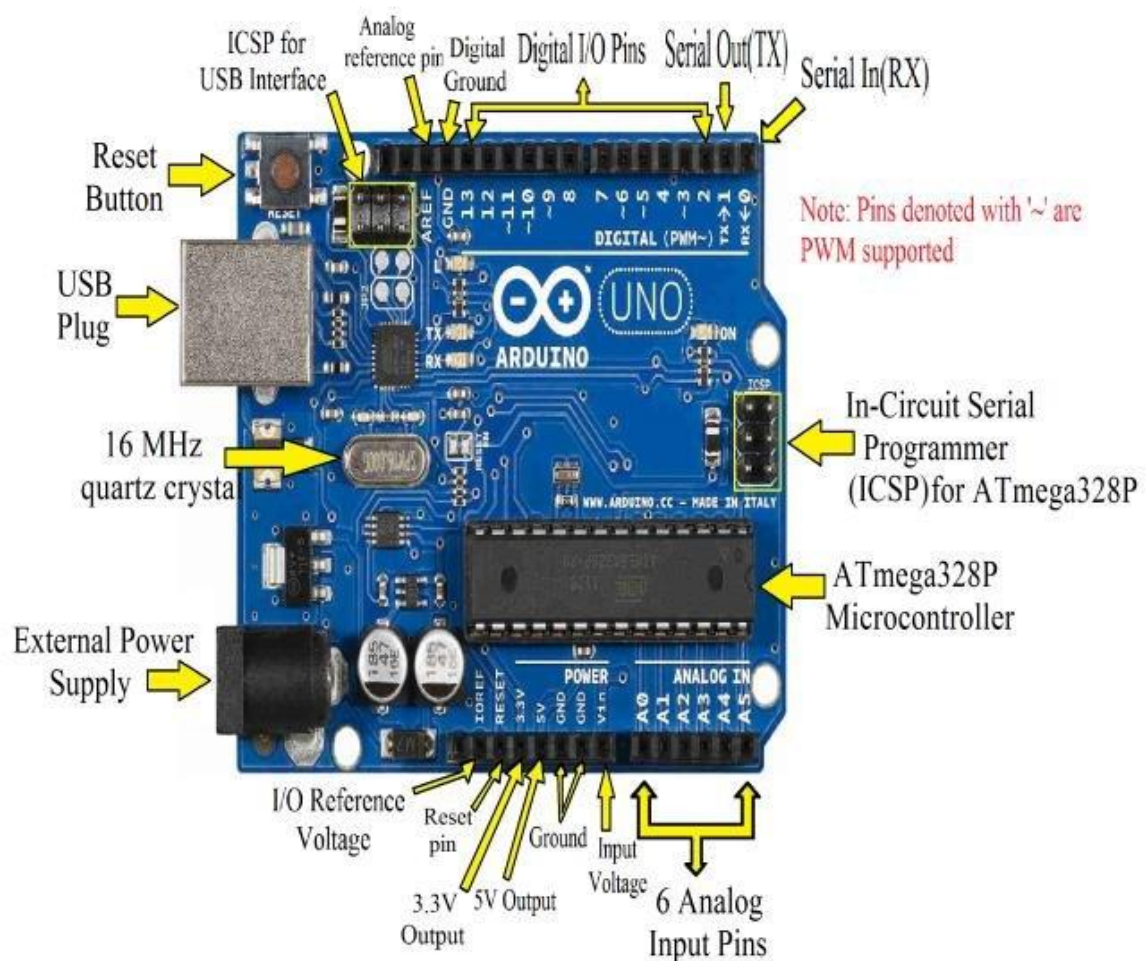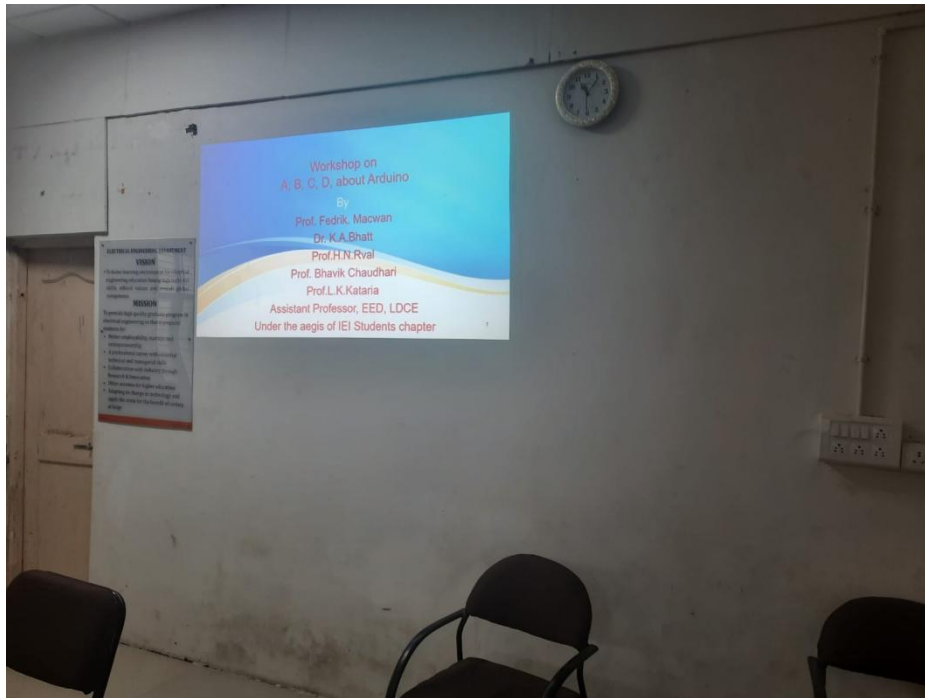# REPORT

Workshop "A,B, C, D about arduino By Prof. Fedrik Makwan, Dr. K.A.Bhatt, Prof. H.N.Raval, & Prof. Lalji Kataria,

Assistant Professor, E.E.D., L.D.C.E.

In this era, engineers around the globe are trying to improve the performance and efficiency of many electro-mechanical systems. The performance and efficiency of the system can be improve by using automation using micro controllers which interfaces with its peripherals (sensors) and performed its function accurately. In order to understand the basic concept of automation, on 8/3/2022, our department has

organized one-day workshop on " A,B,C,D, about Arduino" under the aegis of IEI Students' chapter, Department of Electrical engineering, L.D.C.E., Ahmedabad, Gujarat, India.

Total 38 students have enrolled their names for this workshop. At starting, we have offered prayers. Thereafter, our head of Department Prof. (Dr.) J.R.Iyer madam have given motivational speech and appreciated our efforts for organizing this workshop.

Three sessions were arranged in this workshop, namely (i) Introduction about arduino (presentation) (ii) Tinker-cad Lab software simulation tool, and (iii) Real-time practices using Arduino board.

In first sessions, basic information about hardware of Arduino such as its architecture, input/output pins, Power supply (5V), and communication port, are discussed. Further, in order to understand about coding on Arduino board using software support provided by Arduino IDE, it is essential to understand few terms such as keywords,identifiers, variables, loop control, etc.. These terms were also discussed

.In second session, tinker-cad simulation tool was explored. Students were allowed to simulate LED blink program in it. Few more programs which includes delay timer, relay operations, and distance measurement using ultrasonic sensor were discussed.

In third session, some of the real-time examples such as "ON" and "OFF" of in-condensate Lamp and DTH11 sensor which is used for measurement of temperature and humidity were discussed.
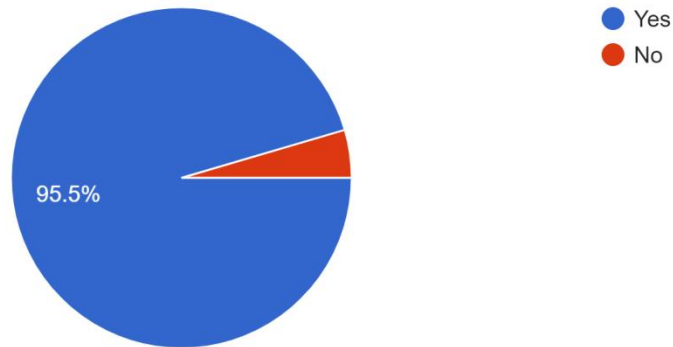
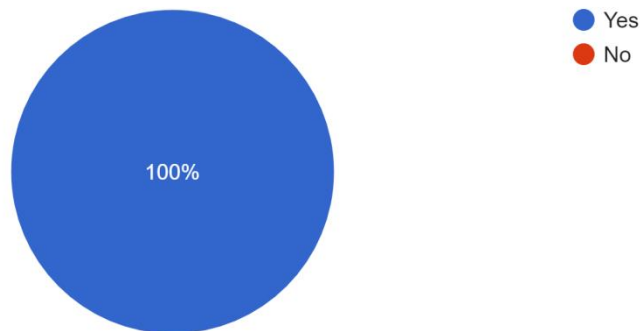At last, the feedback session was arranged.

Feedback analysis

Does the duration of said workshop is OK?
22 responses

Yes
No

95.5%

Would you like to attend such other workshops?
22 responses
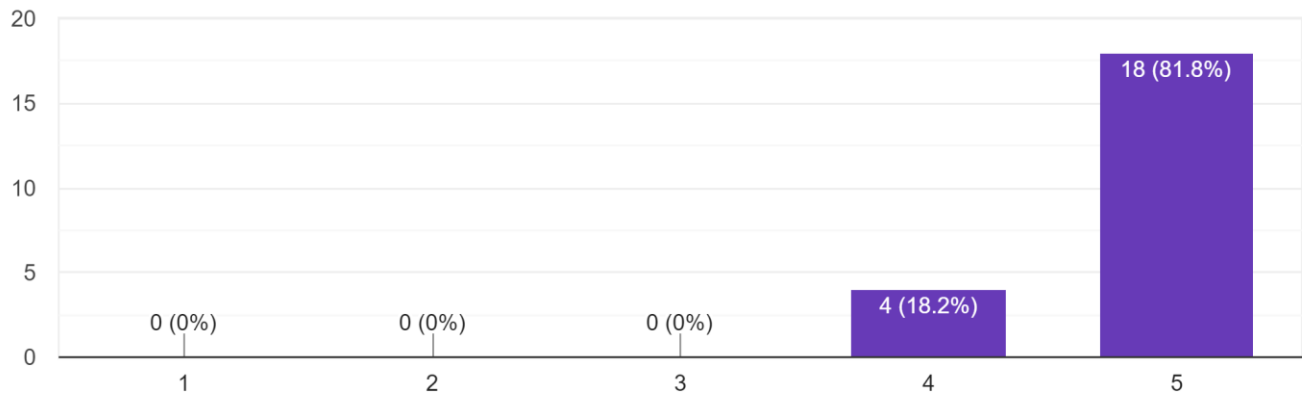
Yes
No

100%

Which topic you like the most?

-Discussion on rehostate

Feedback about this workshop

22 responses

-The seminar was so motivating and very much helpful.Thank you so much for arranging this seminar.

-How to use Arduino circuit with tinker-cad language

-we have learned totally basics starting from scratch

-How we make different projects using Arduino

-Programming

-Arduino

-Team work, explanation about circuit in deep and many more things are such a great ✦

-Arduino application

-All the topics

-Practical knowledge

-The practical experiment done

-Application of Arduino

-Arduino interfacing with sensors

-Practical about Arduino with bulb

-We executed program with Arduino board

-Hands-on experiment

-Implementation of Arduino in circuit

-Practicals on Arduino