

Department of Electronics and Telecommunication Engineering
Event Report

**Internship on Introduction to Arduino, IoT and Interfacing using
Simulator software**
(15th – 26th of June 2020)

Event Information
Event Type: Internship Program .
Event title: Internship on Introduction to Arduino, IoT and Interfacing using Simulator software
Resource Person: Prof. Vaishali Mangrulkar, Prof. Pratibha Joshi, Prof. Vishal Gaikwad
Event date: 15 th – 26 th of June 2020
Organized for: <input checked="" type="checkbox"/> Student <input type="checkbox"/> Faculty
Organized by Department of Electronics and Telecommunication
Target audience (branch & nos.): FE and SE(All Branches) 40 Students
Attachments: 1. Photographs (in JPEG/PNG) 2. Attendance report 3. Feedback

Event Description

Day_1 (15th June 2020):

- Introduction to Arduino Uno, Introduction to IDE
- Introduction to Tinkercad Simulator and its demonstration.

Day_2 (16th June 2020):

- GPIO Pins of Arduino, Configuration of GPIO pins of Arduino as an input or output for interfacing of different devices, Configure GPIO to blink LED.
- Simulation of program of LED Blink.

Day_3 (17th June 2020):

- Introduction to Arduino programming and basic commands
- Program for traffic light and its simulation.

Day_4 (18th June 2020):

- Ultrasonic sensor and PIR sensor and its interfacing
- Interfacing of ultrasonic sensor and simulation of program using ultrasonic sensor.

Day_5 (19th June 2020):

- Piezo sensor and Temperature sensor
- Interfacing of Temperature sensor and simulation of program using temperature sensor

Day_6 (22nd June 2020):

- Ambient light sensor, IR sensor
- Interfacing of IR sensor and simulation of program using IR sensor

Day_7 (23rd June 2020):

- Input and output components of Tinkercad
- Program to build application using sensors, input and output components
- Interfacing of ESP8266 .
- Program to build IoT application using Arduino board.

Day_8 (24th June 2020):

- introduction to packet tracer
- Implementation of small projects like basic switch set up, connection between different devices etc

Day_9 (25th June 2020):

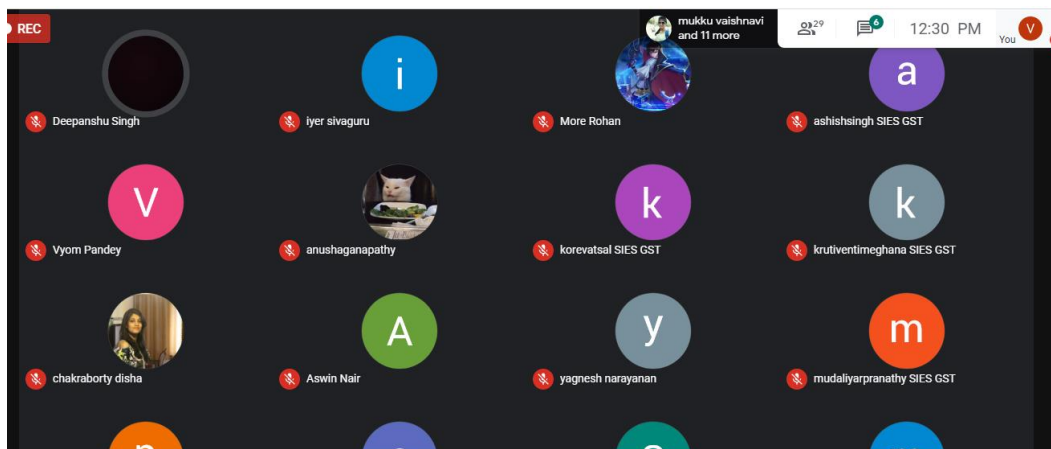
- Theory and Topology of wired and wireless Router using packet tracer

- Implementation of smart home using Cisco packet Tracer

Day_10 (26th June 2020):

- Simulation of fire sprinkler using smoke detector
- Simulation of IoT application using packet tracer.

1. Photographs (in JPEG/PNG)



REC Joshi Pratibha is presenting

workshop

People (31) Chat

Add people

- VAISHALI MANGRULKAR (You)
- Aaryan kumbhar
- Anurag SIES GST
- ashishsingh SIES GST
- Aswin Nair
- bhanushalinavin SIES GST
- chakraborty disha
- Deepanshu Singh
- guchaitpooja SIES GST

Joshi Pratibha is presenting

workshop

Turn on captions

01:32 PM 26-06-2020

Arduino-SDP-22-6-2020.mp4

Mighty Vihelmo Gaarts

Simulator time: 00:02:13

Arduino Uno

1023

VAISHALI MANGRULKAR

1:00:01 / 2:21:23

2. Attendance report

SDP On Introduction to Arduino, IoT and Interfacing using Simulator software

Attendance sheet

Sr.No	Roll No.	Name	Branch	Year	15-06-2020	16-06-2020	17-06-2020	18-06-2020	19-06-2020	22-06-2020	23-06-2020	24-06-2020	25-06-2020	26-06-2020
1	13	Deep Bhanushali	EXTC	FE	P	P	P	P	P	P	P	P	P	P
2	35	Kunal Vikas patkar	EXTC	FE	P	P	P	P	P	P	P	p	p	p
3	39	Manas mendon	Extc	FE	A	P	P	P	P	P	P	p	p	p
4	14	Deepanshu Singh	EXTC	FE	P	P	P	P	P	P	P	p	P	P
5	47	Drishya Nair	EXTC	FE	P	P	A	A	A	A	A	A	A	A
6	2009	Ashish Singh	EXTC	FE	A	P	P	P	P	P	P	P	P	P
7	1192002	aaryan kumbhar	EXTC	FE	P	P	P	P	P	P	P	p	P	P
8	23	Pooja Guchait	Extc	FE	P	P	P	P	P	P	P	P	P	P
9	58	Priyanshu Choudhary	EXTC	FE	P	P	P	P	P	P	P	P	P	P
10	29	Kavya Chandrasekaran	EXTC	FE	P	P	P	P	P	P	P	P	P	P
11	2043	PRANATHY MUDALIYAR	EXTC	FE	P	P	P	P	P	P	A	A	A	A
12	46	Aswin Nair	EXTC	FE	P	P	P	P	P	P	P	P	P	P
13	68	Sakshi Gawali	EXTC	FE	P	P	P	A	A	P	P	P	P	p
14	31	Kirtikumar	EXTC	FE	P	P	A	P	P	A	A	P	p	p
15	7	Anusha Ganapathy	EXTC	FE	P	P	P	P	P	P	P	A	A	A
16	2095	Vishal Umesh Naregal	EXTC	FE	P	A	A	A	A	A	A	A	A	A
17	52	Vyom Pandey	EXTC	FE	P	P	P	P	P	P	P	p	p	p
18	33	Krutiventi Meghana	EXTC A	FE	P	P	P	P	P	P	P	p	p	p
19	40	Marla Vignesh Prathish	EXTC	FE	P	P	P	P	P	P	P	p	p	p
20	48	Anurag Nala	EXTC - A	FE	P	P	P	P	P	P	P	p	p	p
21	92	Vatsal kore	EXTC	FE	P	P	P	P	A	P	A	P	P	P
22	28	Saumya kamath	IT	FE	P	A	A	A	A	A	P	A	A	A
23	24	Jai Janani Radhakrishnan	IT	FE	A	A	A	A	A	A	A	A	A	A
24	41	Yash Sanjay Shinde	MECH	FE	P	P	P	P	P	p	P	A	A	A
25	1196056	Sarvesh Vichare	MECH	FE	P	P	P	P	A	P	P	p	p	p
26	1182067	Mukku Vaishnavi	EXTC	SE	P	P	P	P	P	P	A	p	p	p
27	93	Satish Kumar sivaraman	EXTC	SE	P	P	P	P	P	P	P	p	p	p
28	65	Rohan More	EXTC	SE	P	P	P	P	P	P	P	P	P	P
29	1182035	Prateek Hanchinal	EXTC	SE	P	A	A	A	A	A	A	A	A	A
30	85	Niranjan Raje	EXTC	SE	P	P	P	P	P	P	P	p	p	p
31	2192137	Shradha shirke	Extc	SE	P	P	P	P	P	P	P	p	p	p
32	92	Saronlily thangaraj	EXTC	SE	P	P	P	P	P	P	P	p	p	p
33	66	Simran Mukadam	EXTC-B	SE	P	A	A	A	P	P	P	P	p	p
34	52	Nadar Vijay	CE	SE	P	P	P	P	A	P	P	A	p	p
35	95	Yagnesh Narayanan	CE	SE	P	P	P	P	P	P	P	P	p	p
36	27	Pratik Mahajan	MECH	SE	P	A	A	A	A	A	A	A	A	A
37	14	Sivaguru Iyer	MECH	SE	P	P	P	P	P	P	P	p	p	p
38	6052	Nachiket A. Shembekar	MECH	SE	P	P	P	P	P	P	P	p	p	p
39	1186039	Yash Patil	MECH	SE	P	P	P	A	P	A	v	p	A	A
40	4004	Disha Chakraborty	PPT	SE	P	A	A	A	P	P	P	p	p	p

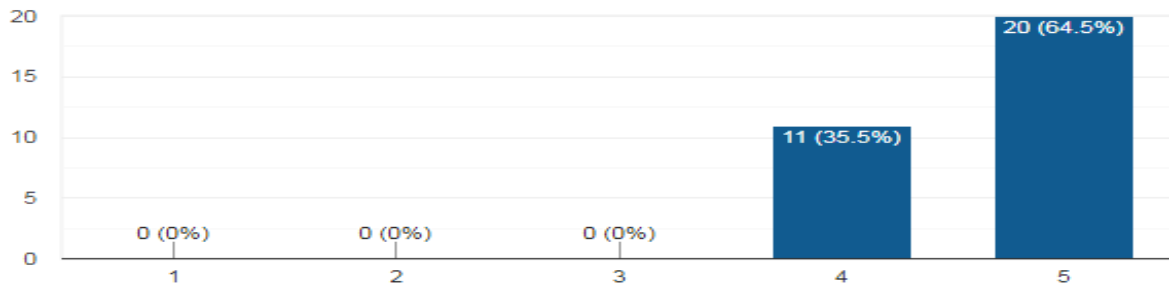
3. Feedback (Analysis)

Feedback _internship of Two Weeks on "Introduction to Arduino, IoT and Interfacing using Simulator software "

31 responses

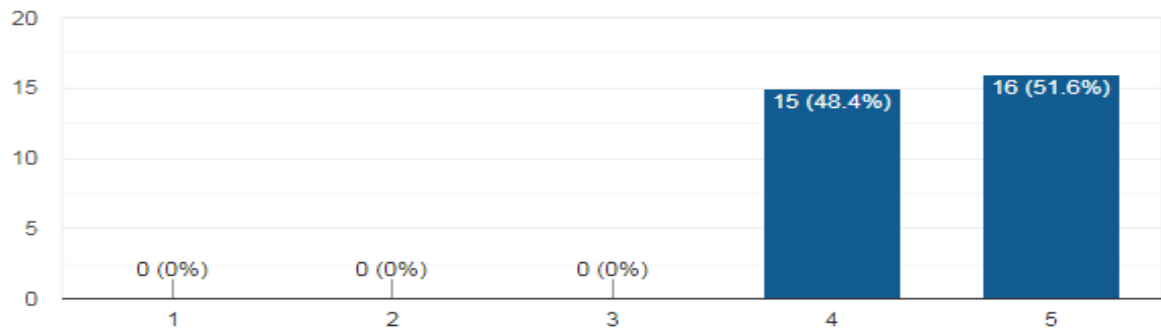
How satisfied were you with the SDP?

31 responses



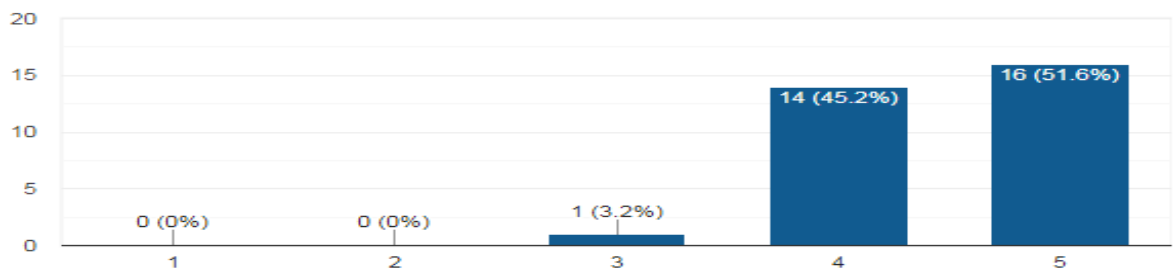
How relevant do you think it was for your future?

31 responses



Effectiveness of the SDP

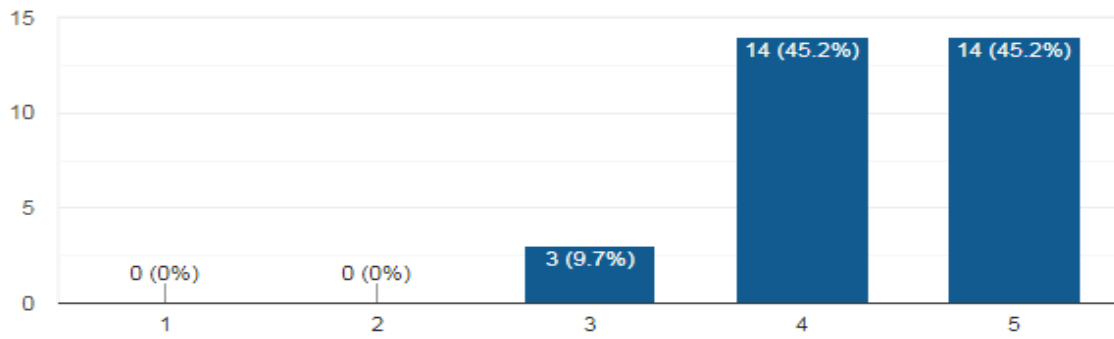
31 responses



Content delivery by speakers



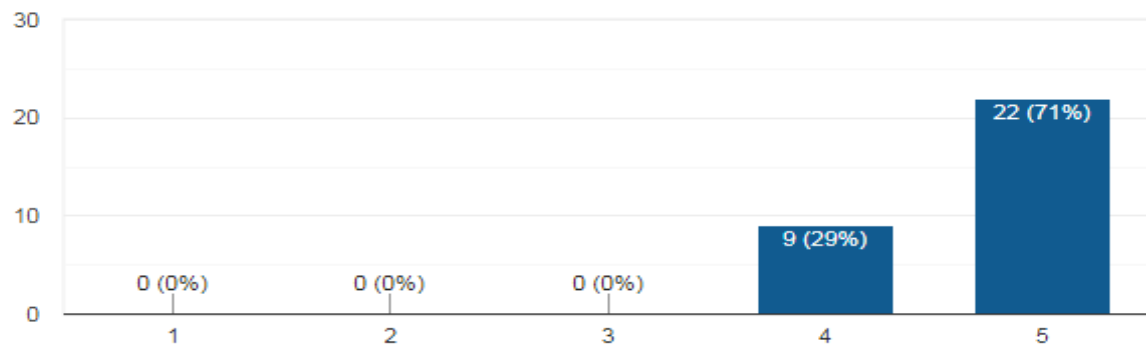
31 responses



Are you gained the knowledge of an Arduino board.

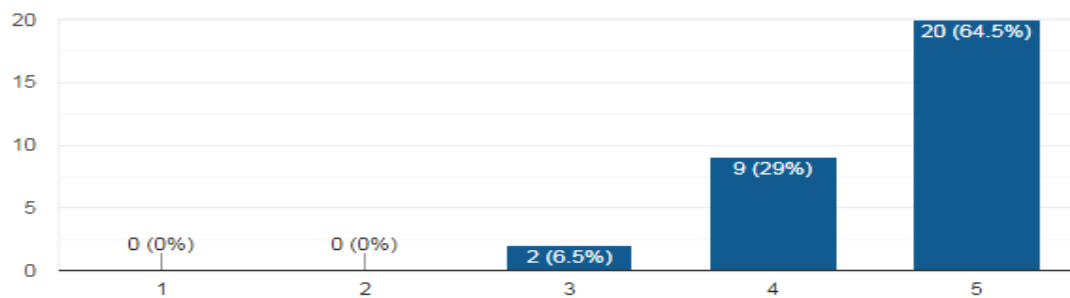


31 responses



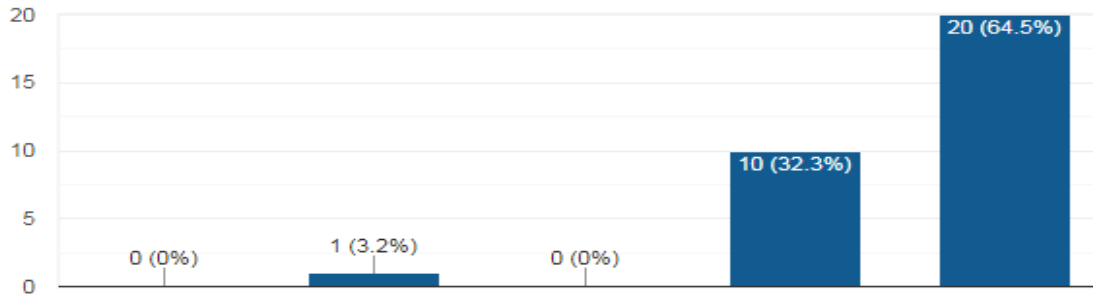
Are you able to explain importance of different peripheral devices and their interfacing to micro controller.

31 responses



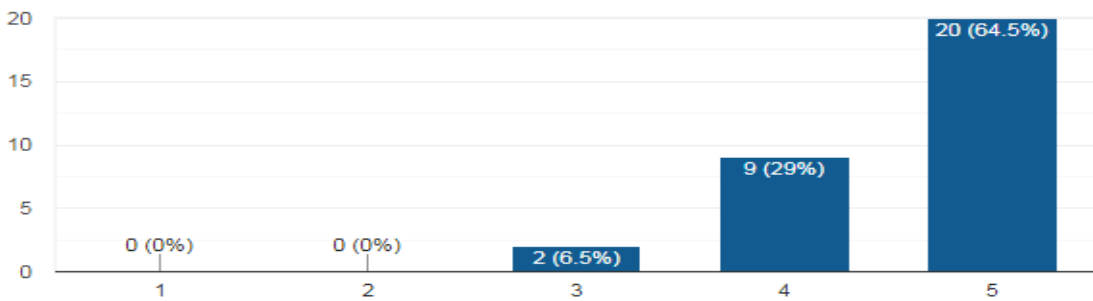
Are you able to explain working of different sensors and their interfacing with Arduino board

31 responses



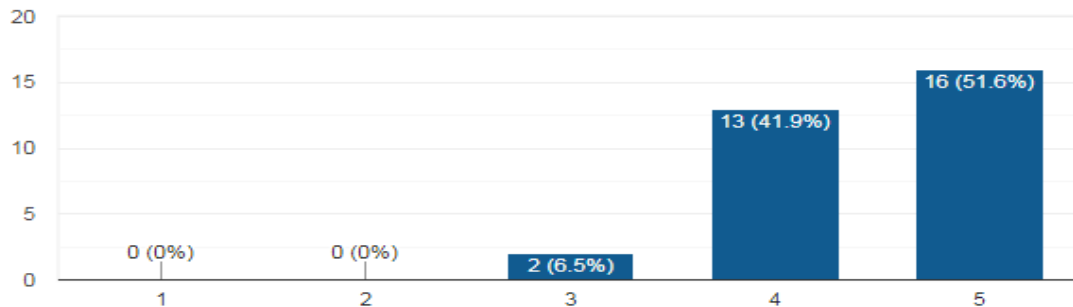
Are you able to interface sensor and do programming

31 responses



Are you able to explain the basic concept of IoT and its implementation

31 responses



Impact Analysis:

Students did mini projects using various sensors available in Tinkercad simulator and simulated and presented successfully.

-