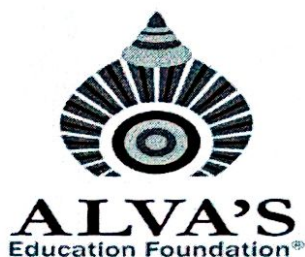


ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri, D.K -574225

Phone: 08258-262725 , Fax : 08258-262726

Department of Electronics and Communication Engineering



A Report on

“INTRODUCTION TO ARDUINO”

Certification Course

ACADEMIC YEAR

2020-21



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725. Fax: 08258-262726

From,

Date: 20-11-2020

Dr. D V Manjunatha
Head of the Department
E & C Engineering
Alva's Institute of Engineering and Technology
Moodbidri.

To,

The Principal
Alva's Institute of Engineering and Technology
Moodbidri.

Respected Sir,

Sub: Requisition for Conducting Certification Course for 5 days

reg:-

With reference to the above subject, we are planning to conduct a certification course for 2nd year students on the topic "**Introduction to Arduino**" from 1st December 2020 to 5th December 2020 for 5 days.

So I kindly request you to grant the permission for conducting the certification course.

Thanking you,

Yours faithfully

Dr. D V Manjunatha
Head of the Department
AIET Moodbidri
H. O. D.

Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

Dr. Peter Fernandes
Principal
AIET Moodbidri

PRINCIPAL
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225, D.K



Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K - 574225

Phone: 08258-262725, Fax: 08258-262726

DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING

Date: 21-11-2020

From,

Dr D V Manjunatha
Head of the Department
E & C Engineering
Alva's Institute of Engineering and Technology
Moodbidri.

To,

Mr. Sudhakara H M
Assistant Professor
Dept. of ECE, AIET
Moodbidri.

Respected Sir,

Sub: Invitation for conducting SDP -Reg

With reference to above subject, Department of E&C Engineering, Alva's Institute of Engineering and Technology, is conducting certification course for ECE 2nd year students on the topic "**Introduction to Arduino**" from 1st December 2020 to 5th December 2020 for 5 days.

Kindly accept this invitation for conducting the certification course and enhance the Technical knowledge of our students.

Thanking you,

Yours faithfully,

Dr D V Manjunatha

(HOD)

H. O. D.

Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

**ALVA'S INSTITUTE OF ENGINEERING AND
TECHNOLOGY**

**Dept. of Electronics and Communication
Engineering**

*Certification Course
On*

"Introduction to Arduino"

To,

.....

.....

**Dept. of Electronics and Communication
Engineering**

We cordially invite you to the
Certification Course
On

"Introduction to Arduino"

By

**Mr. Sudhakara H M
Assistant Professor**

Dept. of ECE, AIET, Moodbidri

Venue: Internet Lab

Date: 1st to 5th December 2020

**Mr.Santhosh S
Staff Coordinators**

**Dr D V Manjunatha
HOD**

About the Institution

Alva's Institute of Engineering & Technology (AIET) is a premier Engineering Institute of Alva's Education Foundation established in the year 2008.

AIET is recognized by All India Council for Technical Education (AICTE), New Delhi and affiliated to Visvesvaraya Technological University (VTU), Belgaum, approved by Govt. of Karnataka. Ranked as one of the best Technical Institute in Dakshina Kannada region. AIET has established Multi-Disciplinary Research Centers viz Center for Robotics, EMS, CAD Center, Linux Lab.

About the Department

Department of Electronics & Communication was started in the year 2008-09. ECE branch is concerned with the design, development, manufacture and application of electronic devices, circuits and systems. It plays great emphasis on deep understanding of fundamental principles and state of the art knowledge about Electronic Devices and Circuits, Computer Architecture and Microprocessors, VLSI and Embedded

systems, Electromagnetic Field Theory, Analog and Digital Communication, Digital Signal Processing, Microwave and Broadband Communications.

Scope of the Course

This practical course is designed to quickly take students from beginner to basic functional knowledge of the Arduino microcontroller. The Arduino is a versatile resource for physical projects for students in all disciplines. This course brings students over the beginner's threshold to a basic understanding of the use, terminology, and potential of the Arduino.

Course Content

1. Introduction to Arduino
2. Navigating the Arduino Integrated Development Environment (IDE).
3. Using built-in help in the IDE.
4. Downloading firmware to the Arduino
Blinking the LED
5. Variables types
6. Control logic (if/else)
7. Iteration (for loops and while())

RESOURCE PERSON

Mr. Sudhakara H M
Assistant Professor,
Dept. of ECE, AIET, Moodbidri

PROGRAM SCHEDULE

1st, December, 2020

Inauguration:	09:00 am to 09:30 am
Session 1:	09:30 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 2:	02:00 pm to 05:00 pm

2, December

Session 3:	09:00 am to 11:00 am
Tea Break:	11:00 am to 11:20 am
Session 3:	11:20 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 4:	02:00 pm to 05:00 pm

3, December

Session 5:	09:00 am to 11:00 am
Tea Break:	11:00 am to 11:20 am
Session 5:	11:20 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 6:	02:00 pm to 05:00 pm

4, December

Session 7:	09:00 am to 11:00 am
Tea Break:	11:00 am to 11:20 am
Session 7:	11:20 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 8:	02:00 pm to 05:00 pm

5, December

Session 9:	09:00 am to 11:00 am
Tea Break:	11:00 am to 11:20 am
Session 9:	11:20 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 10:	02:00 pm to 04:00 pm
Valedictory:	04:00 pm to 05:00 pm



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Phone: 08258-262725, Fax: 08258-262726

Department of Electronics and Communication Engineering

Date: 21/11/2020

Circular

It is hereby informed that the department of ECE is conducting certification course for 2nd year students on the topic "Introduction to Arduino" from 1st December 2020 to 5th December 2020 for 5 days. All students are informed to register for the same.

Coordinator
Mr. Santosh S

HOD

Dr D V Manjunatha

HOD.

Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, Moodbidri - 574225

Department of Electronics & Communication Engineering

List of students attending certification course on "Introduction to Arduino"

Sl. No.	USN	NAME
1	4AL18EC002	ABHISHEK N
2	4AL18EC014	DHANYAKUMAR
3	4AL18EC038	PRADEEP BHISHE
4	4AL19EC001	A V VEDANTH
5	4AL19EC002	ABDUL GAFFAR MULLA
6	4AL19EC003	ABDUL RASHEED
7	4AL19EC004	ABHAYKUMAR
8	4AL19EC005	ABHINANDAN
9	4AL19EC006	ABHISHEK C
10	4AL19EC007	ABHISHEK NAIK
11	4AL19EC008	ABHISHEK P
12	4AL19EC009	ABHISHEK M O
13	4AL19EC010	ADITYA TOGARE
14	4AL19EC011	AISHWARYA M T
15	4AL19EC012	AKHILESH PATIL
16	4AL19EC013	AMRUT BELAVI
17	4AL19EC014	ANAND
18	4AL19EC015	ANDREW ARTHUR GONSALVES
19	4AL19EC016	ANIL PATEL
20	4AL19EC017	ANKITA SANNADURGYA NAIK
21	4AL19EC018	ARUN V DEVAJI
22	4AL19EC019	ARYAN D
23	4AL19EC020	ASHISH SHETTY
24	4AL19EC021	NILESH SHANKAR AWATI
25	4AL19EC022	BHAVYA Y R
26	4AL19EC023	BHOOMIKA M GOWDA
27	4AL19EC024	BHOOMIKA T M
28	4AL19EC025	CHARAN N
29	4AL19EC027	DARSHAN S N
30	4AL19EC028	DEEPIKA P
31	4AL19EC029	DHANRAJ R B
32	4AL19EC030	DHANUSH B A
33	4AL19EC031	GAGAN K
34	4AL19EC033	HARINI C G

35	4AL19EC034	HARSHITHA R SHETTY
36	4AL19EC035	HARSHYANI A R
37	4AL19EC036	J V RASHMITA
38	4AL19EC037	JAISON V J
39	4AL19EC038	JEEVAN C M
40	4AL19EC039	K S SUMA
41	4AL19EC040	KARIBASAVA KUBASADA
42	4AL19EC041	KEERTHAN P
43	4AL19EC042	KRUTHIK B S
44	4AL19EC043	MADHU K
45	4AL19EC044	MALLIKARJUN BASAVARAJ GORAVAR
46	4AL19EC045	MANYA H P
47	4AL19EC046	MEGHA R
48	4AL19EC047	NADIYA N
49	4AL19EC048	NAYANA G
50	4AL19EC049	NIKHIL C R
51	4AL19EC050	NIKHIL S
52	4AL19EC051	NITHISH KUMAR
53	4AL19EC052	NIVEDITHA A
54	4AL19EC053	OMKAR
55	4AL19EC054	PAVITRA KAMBAR
56	4AL19EC055	PRAJWAL BHATT JOSHI
57	4AL19EC056	PRASANNAKUMAR V BELLADA
58	4AL19EC057	PRATHEEK KUMAR
59	4AL19EC058	H P PURSHOTHAM
60	4AL19EC059	R SRIRAM
61	4AL19EC060	RAGATE POOJABAI SHIVAPPA
62	4AL19EC061	RAGHAVENDRA B L
64	4AL19EC062	RAHUL. S
63	4AL19EC063	RAMYA MADHUKAR NAYAK
65	4AL19EC064	RASHMI K
66	4AL19EC066	SANJAY C
67	4AL19EC067	SANJUSHREE V
68	4AL19EC068	SATHVI
69	4AL19EC069	SHANTVEER PATIL
70	4AL19EC070	SHASHANK
71	4AL19EC072	SHASHANK SHETTY
72	4AL19EC073	SHEKHAR BHADRASHETTI
73	4AL19EC074	SHILPA R
74	4AL19EC075	SHWETHA H M
75	4AL19EC076	SOUPOORNA SUKRAPPA MOGER

76	4AL19EC077	SPOORTHI A M
77	4AL19EC078	SPOORTI HIRUR
78	4AL19EC079	SRUSHTI MYAGERI
79	4AL19EC080	SUMA
80	4AL19EC081	SUMANTH K S
81	4AL19EC082	SUSHMA J
82	4AL19EC083	SWAJAN KUMAR
83	4AL19EC084	TANUSHREE M
84	4AL19EC085	THRISHALA M
85	4AL19EC086	VINAY S
86	4AL19EC087	VYBHAV GOWDA M
87	4AL19EC088	WAREPAM LENDO SINGH
90	4AL19EC089	YASHWANTH E
88	4AL19ME071	SHASHANK S KASHYAP
89	4AL20EC400	DEEPA
91	4AL20EC401	MOHAN KUMAR


Coordinator



HOD
H. O. D.
Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

II year Student attendance of certification course on "Introduction to Robotics"

Sl. No.	USN	NAME	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	
1	4AL18EC002	Abhishek N	1	2	3	4	5	6	7	8	9	10	
2	4AL18EC014	Dhanyakumar	1	2	3	4	5	6	7	8	9	10	
3	4AL18EC038	Pradeep Bhishe	1	2	3	4	5	6	7	8	9	10	
4	4AL19EC001	A V Vedanth	1	2	3	4	5	6	7	8	9	10	
5	4AL19EC002	Abdul Gaffar Mulla	1	2	3	4	5	6	7	8	9	10	
6	4AL19EC003	Abdul Rasheed	1	2	3	4	5	6	7	8	9	10	
7	4AL19EC004	Abhaykumar	1	2	3	4	5	6	7	8	9	10	
8	4AL19EC005	Abhinandan	1	2	3	4	5	6	7	8	9	10	
9	4AL19EC006	Abhishek C	1	2	3	4	5	6	7	8	9	10	
10	4AL19EC007	Abhishek Naik	1	2	3	4	5	6	7	8	9	10	
11	4AL19EC008	Abhishek P	1	2	3	4	5	6	7	8	9	10	
12	4AL19EC009	Abhishek M O	1	2	3	4	5	6	7	8	9	10	
13	4AL19EC010	Aditya Togare	1	2	3	4	5	6	7	8	9	10	
14	4AL19EC011	Aishwarya M T	1	2	3	4	5	6	7	8	9	10	
15	4AL19EC012	Akhilesh Patil	1	2	3	4	5	6	7	8	9	10	
16	4AL19EC013	Amrut Belavi	1	2	3	4	5	6	7	8	9	10	
17	4AL19EC014	Anand	1	2	3	4	5	6	7	8	9	10	
18	4AL19EC015	Andrew Arthur Gonsalves	1	2	3	4	5	6	7	8	9	10	
19	4AL19EC016	Anil Patel	1	2	3	4	5	6	7	8	9	10	
20	4AL19EC017	Ankita Sannadurgya Naik	1	2	3	4	5	6	7	8	9	10	
21	4AL19EC018	Arun V Devaji	1	2	3	4	5	6	7	8	9	10	
22	4AL19EC019	Aryan D	1	2	3	4	5	6	7	8	9	10	
23	4AL19EC020	Ashish Shetty	1	2	3	4	5	6	7	8	9	10	
24	4AL19EC021	Nilesh Shankar Awati	1	2	3	4	5	6	7	8	9	10	
25	4AL19EC022	Bhavya Y R	1	2	3	4	5	6	7	8	9	10	
26	4AL19EC023	Bhoomika M Gowda	1	2	3	4	5	6	7	8	9	10	
27	4AL19EC024	Bhoomika T M	1	2	3	4	5	6	7	8	9	10	
28	4AL19EC025	Charan N	1	2	3	4	5	6	7	8	9	10	
29	4AL19EC027	Darshan S N	1	2	3	4	5	6	7	8	9	10	
30	4AL19EC028	Deepika P	1	2	3	4	5	6	7	8	9	10	
31	4AL19EC029	Dhanraj R B	1	2	3	4	5	6	7	8	9	10	
32	4AL19EC030	Dhanush B A	1	2	3	4	5	6	7	8	9	10	
33	4AL19EC031	Gagan K	1	2	3	4	5	6	7	8	9	10	
34	4AL19EC033	Harini C G	1	2	3	4	5	6	7	8	9	10	
35	4AL19EC034	Harshitha R Shetty	1	2	3	4	5	6	7	8	9	10	
36	4AL19EC035	Harshyani A R	1	2	3	4	5	6	7	8	9	10	
37	4AL19EC036	J V Rashmita	1	2	3	4	5	6	7	8	9	10	

38	4AL19EC037	Jaison V J	1	2	3	4	5	6	7	8	9	10	Fal
39	4AL19EC038	Jeevan C M	1	2	3	4	5	6	7	8	9	10	D
40	4AL19EC039	K S Suma	1	2	3	4	5	6	7	8	9	10	ack-
41	4AL19EC040	Karibasava Kubasada	1	2	3	4	5	6	7	8	9	10	(3)
42	4AL19EC041	Keerthan P	1	2	3	4	5	6	7	8	9	10	ack-
43	4AL19EC042	Kruthik B S	1	2	3	4	5	6	7	8	9	10	ack-
44	4AL19EC043	Madhu K	1	2	3	4	5	6	7	8	9	10	ack-
45	4AL19EC044	Mallikarjun Basavaraj Goravar	1	2	3	4	5	6	7	8	9	10	ack-
46	4AL19EC045	Manya H P	1	2	3	4	5	6	7	8	9	10	ack-
47	4AL19EC046	Megha R	1	2	3	4	5	6	7	8	9	10	ack-
48	4AL19EC047	Nadiya N	1	2	3	4	5	6	7	8	9	10	ack-
49	4AL19EC048	Nayana G	1	2	3	4	5	6	7	8	9	10	ack-
50	4AL19EC049	Nikhil C R	1	2	3	4	5	6	7	8	9	10	ack-
51	4AL19EC050	Nikhil S	1	2	3	4	5	6	7	8	9	10	ack-
52	4AL19EC051	Nithish Kumar	1	2	3	4	5	6	7	8	9	10	ack-
53	4AL19EC052	Niveditha A	1	2	3	4	5	6	7	8	9	10	ack-
54	4AL19EC053	Omkar	1	2	3	4	5	6	7	8	9	10	ack-
55	4AL19EC054	Pavitra Kambar	1	2	3	4	5	6	7	8	9	10	ack-
56	4AL19EC055	Prajwal Bhatt Joshi	1	2	3	4	5	6	7	8	9	10	ack-
57	4AL19EC056	Prasannakumar V Bellada	1	2	3	4	5	6	7	8	9	10	ack-
58	4AL19EC057	Pratheek Kumar	1	2	3	4	5	6	7	8	9	10	ack-
59	4AL19EC058	H P Purshotham	1	2	3	4	5	6	7	8	9	10	ack-
60	4AL19EC059	R Sriram	1	2	3	4	5	6	7	8	9	10	ack-
61	4AL19EC060	Ragate Poojabai Shivappa	1	2	3	4	5	6	7	8	9	10	ack-
62	4AL19EC061	Raghavendra B L	1	2	3	4	5	6	7	8	9	10	ack-
64	4AL19EC062	Rahul. S	1	2	3	4	5	6	7	8	9	10	ack-
63	4AL19EC063	Ramya Madhukar Nayak	1	2	3	4	5	6	7	8	9	10	ack-
65	4AL19EC064	Rashmi K	1	2	3	4	5	6	7	8	9	10	ack-
66	4AL19EC066	Sanjay C	1	2	3	4	5	6	7	8	9	10	ack-
67	4AL19EC067	Sanjushree V	1	2	3	4	5	6	7	8	9	10	ack-
68	4AL19EC068	Sathvi	1	2	3	4	5	6	7	8	9	10	ack-
69	4AL19EC069	Shantveer Patil	1	2	3	4	5	6	7	8	9	10	ack-
70	4AL19EC070	Shashank	1	2	3	4	5	6	7	8	9	10	ack-
71	4AL19EC072	Shashank Shetty	1	2	3	4	5	6	7	8	9	10	ack-
72	4AL19EC073	Shekhar Bhadrashetti	1	2	3	4	5	6	7	8	9	10	ack-
73	4AL19EC074	Shilpa R	1	2	3	4	5	6	7	8	9	10	ack-
74	4AL19EC075	Shwetha H M	1	2	3	4	5	6	7	8	9	10	ack-
75	4AL19EC076	Soupoorna Sukrappa Moger	1	2	3	4	5	6	7	8	9	10	ack-
76	4AL19EC077	Spoorthi A M	1	2	3	4	5	6	7	8	9	10	ack-

77	4AL19EC078	Spoorti Hirur	1	2	3	4	5	6	7	8	9	10
78	4AL19EC079	Srushti Myageri	1	2	3	4	5	6	7	8	9	10
79	4AL19EC080	Suma	1	2	3	4	5	6	7	8	9	10
80	4AL19EC081	Sumanth K S	1	2	3	4	5	6	7	8	9	10
81	4AL19EC082	Sushma J	1	2	3	4	5	6	7	8	9	10
82	4AL19EC083	Swajan Kumar	1	2	3	4	5	6	7	8	9	10
83	4AL19EC084	Tanushree M	1	2	3	4	5	6	7	8	9	10
84	4AL19EC085	Thrishala M	1	2	3	4	5	6	7	8	9	10
85	4AL19EC086	Vinay S	1	2	3	4	5	6	7	8	9	10
86	4AL19EC087	Vybhav Gowda M	1	2	3	4	5	6	7	8	9	10
87	4AL19EC088	Warepam Lendo Singh	1	2	A	3	4	5	A	6	7	8
90	4AL19EC089	Yashwanth E	1	2	3	4	5	6	7	8	9	10
88	4AL19EC 071	Shashank S Kashyap	1	2	3	4	5	6	7	8	9	10
89	4AL20EC400	Deepa	1	2	3	4	5	6	7	8	9	10
91	4AL20EC401	Mohan Kumar P	1	2	3	4	5	6	7	8	9	10


Coordinator


Dr D V Manjunatha
H. O. D.

Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY
(Affiliated to VTU, Belgaum, Recognized by AICTE New Delhi)
Shobhavana Campus, Mijar, Moodbidri DK Karnataka-574225

Department of Electronics and Communication Engineering

THIS CERTIFIES THAT

bearing the USN of Semester, has attended the Certification Course on "Introduction to Arduino" from 01 December 2020 to 05th December 2020 held at Alva's Institute of Engineering and Technology, Moodbidri.

Mr. Sudhakara H M,
Asst. Professor
ECE AIET

Dr D V Manjunatha
Head of the Department
ECE, AIET

Dr. Peter Fernandes
Principal
AIET Moodbidri

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

REPORT

Certification course on "Introduction to Arduino" was organized by Electronics and Communication Department, from 01-12-2020 to 05-12-2020 for 2nd year students by Mr.Sudhakara H M, Assistant Professor Mangalore. He compared the Arduino boards with the other equivalent boards available to design web. Then he gave exposure on JavaScript and its usage in developing web related programs. He also elaborated the ideas about how to tweet and update own messages in twitter social network along with the hands on.

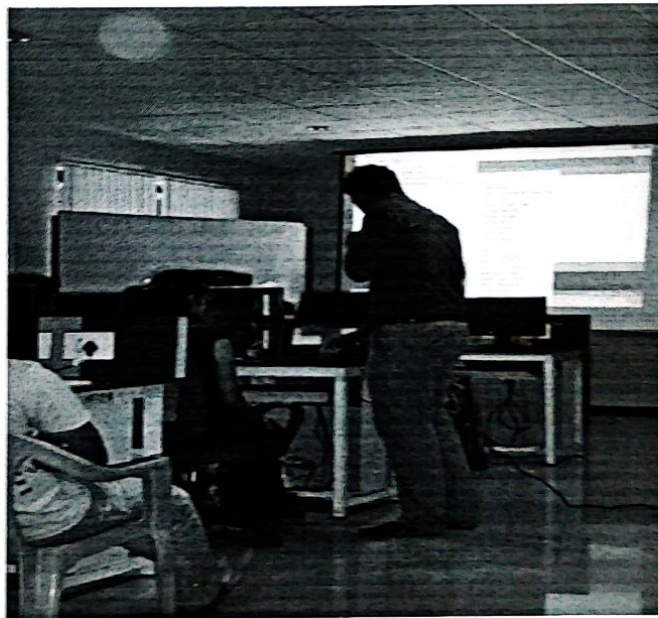


Figure: Certification course on "Introduction to Arduino"



H. O. D.

Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225



Department of Electronics & Communication Engineering

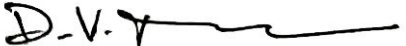
Summary Report of Add-on/Certificate program with its Outcomes

Academic Year : 2020-21	Duration: 1-12-2020 to 5-12-2020
Title of the Course: Introduction to Arduino.	
Resource Person: Mr. Sudhakara H M, Assistant Professor, Dept of ECE, AIET, Mijar.	

The department conducted Certification Course on “Introduction to Arduino” for 2nd year students of Electronics and Communication Engineering from 1-12-2020 to 5-12-2020 by Mr. Sudhakara H M, Assistant Professor, Dept of ECE, AIET, Mijar.

91 students of 2nd year, Electronics and Communication Engineering are benefitted from this course and were able to

- Learn the basic of Arduino.
- Use of built-in IDE.
- Download the firmware to Arduino.
- Understand the concepts of variable typrs, control logics, iterations etc.



Dr. D V Manjunatha

H. O. D.

Dept. Of Electronics & Communication
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

Introduction to Arduino – Test

1. _____ are pre built circuit boards that fit on top of Android.
A. Sensor
B. Data types
C. Breadboard
D. Shields
2. What does IDE stand for?
A. In Deep Environment
B. Integrated Development Environment
C. Internal Deep Escape
D. IDE
3. Which board is first to use microcontroller with in build USB?
A. LilyPad
B. UNO
C. RedBoard
D. Leonardo
4. A function is a series of programming statements that can be called by name. Which command is called once when the program starts:
A. loop()
B. setup()
C. (output)
D. (input)
5. What is wrong with the following
/*Turns on an LED on for one second, then off for one second, repeatedly.
This example code is in the public domain.*/


```
int led = 13;  
void setup() {  
  pinMode(led, INPUT);  
}  
void loop() {  
  digitalWrite(led, HIGH);  
  delay(1000);  
  digitalWrite(led, LOW);  
  delay(1000);  
}
```


A. All the code
B. Void
C. High and Low
D. Low and High
6. A program written with the IDE for Arduino is called _____



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-
- A. IDE source
C. Cryptography
- B. Sketch
D. Source code
7. How many types of arduinos do we have?
- A. 5
C. 8
- B. 6
D. 4
8. What is the default bootloader of the Arduino UNO?
- A. Optiboot bootloader
C. Bare box
- B. AIR-boot
D. GAG
9. How many digital pins are there on the UNO board?
- A. 14
C. 12
- B. 16
D. 20
10. Which is the software or a programming language used for controlling of Arduino?
- A. Assembly Language
C. JAVA
- B. C Languages
D. Any Language
11. What does this line of code do? `counter++;`
- A. Increment counter by an amount that depends on its definition.
C. Adds 1 to the variable counter
- B. This is not a legal statement in the Arduino language.
D. Returns true if the variable counter has a positive value.
12. What is the index of the letter F in this array? `char textMessage[] = "Have Fun with Arduino";`
- A. 5
C. 4
- B. 6
D. 'F'
13. How many elements are in the array? `char textMessage[] = "Have Fun with Arduino";`
- A. 20
C. 22
- B. 21
D. The statement is not a legal Arduino program statement.

14. What does this line of code do? `temp = !temp;`

A. Sets the variable temp to its logical compliment.

B. Converts the variable temp to a boolean value.

C. The line is not a legal Arduino statement.

D. None of the above

FEEDBACK FORM

Five days Student Training Program

On

“Introduction to Arduino”

For the following areas, please indicate your rating from 1 to 5:

1=strongly Disagree 2=Disagree 3=neither agree nor disagree 4=Agree 5=strongly Agree

SN	Topics	1	2	3	4	5
A.	Content					✓
1	Understood the basics of Arduino				✓	
2	Understood the concept of Arduino integrated development environment (IDE).				✓	
3	Able to analyze Arduino using the built-in help in the IDE				✓	
4	Understood the firmware to the Arduino Blinking the LED.				✓	
5	Able to understand Control logic of Arduino.				✓	
B.	Presentation					✓
6	Instructor's knowledge					✓
7	Instructor's presentation style					✓
8	Instructor covered material clearly					✓
9	Instructor responded well to questions					✓
10	Instructor facilitated interactions among participants well					✓
C. How could this workshop be improved?						
With Mini'projects using Arduino						
D. Any other comments or suggestions?						
E. Overall, how would you rate this workshop?						
☐	Poor	☐	Good			
☐	Neither Good Nor Poor	☒	Excellent			