AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University, Chennai
NAAC Accredited Institution
"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.
ANNA UNIVERSITY COUNSELLING CODE : 1101

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Dated on: 2/9/2022

CIRCULAR

FACULTY MEMBERS AND STUDENTS

We have planned to conduct Value Added course in our department on the topic "ARDUINO" from 05/9/2022 to 20/9/2022 therefore, I request all the Faculty members and students to attend the course and make utilization of the course for your future.

Resource Person:

BALAMURGAN S
STANFORD INDIA BIODESIGN
FELLOW SCHOOL OF INTERNATIONAL BIODESIGN
AIIMS NEW DELHI

Permitted to organize the above Programme during the above stated period

Date 2/9/2022

Prof. Dr. A.S.SALMA BANU
HoD/ECE

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

CHENNAI
600 055

ARDUINO

05/09/22 to 20/09/22

Timing:4.00-6.00p.m.-Week Days

4:00-7:00 Pm on Saturday's

VALUE ADDED COURSE

RESOURCE PERSON
Bala Murugan. S
Standford- India
Bio design fellow
School of International Bio design
AIIMS, New Delhi.

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Prof. Dr.A. S. Salma Babu
HOD/ECE

Prof. Dr. S. Sathish
Principal

Alhaj.S.Segu Jamuludeen
Secretary & Correspondent

DEPARTMENT OF ELECTRONICS &COMMUNICATION ENGINEERING

VALUE-ADDED COURSE-SUMMARY REPORT

COURSE NAME: ARDUINO

Date: 05/09/2022 to 20/09/2022

Time: Week Days: 4:00 pm to 6:00 pm

    Saturday's : 4.00 pm to 7.00 pm

No. of days: 14

No. of Modules: 5

Course Hours: 30

Mode of Conduction: Offline

Speaker: S. BALAMURGAN

Student Certified: 33

Objective of the Course:

- To provide knowledge of different Smart System applications.
- To familiarize students with Arduino as IDE, programming language & platform.
- To provide knowledge of Arduino boards and basic components.
- Develop skills to design and implement various smart system applications.

Summary of the course:

- Arduino Integrated Development Environment (IDE) is an open source IDE that allows users to write code and upload it to any Arduino board. Arduino IDE is written in Java and is compatible with Windows, macOS and Linux operating systems.

Course Outcomes:

- Upon successful completion of this course, students should be able to:
- Familiar with Arduino environment and its applications.
- Able to understand Arduino programming with C++.
- Able to Design Smart systems applications.
- Learn and understand about any new IDE, compiler, and MCU chip in Arduino
- Compatible boards or similar types.

PRINCIPAL

AALIM MUHAMMED SALEGh

COLLEGE OF ENGINEERING

AVADI - IAF, MUTHAPUDUPE

CHENNAI   600 055

From,

Head of the Department
Department of ECE
Aalim Muhammed Salegh College of Engineering
Avadi IAF, Muthapudupet
Chennai - 600055

To,

The Principal
Aalim Muhammed Salegh College of Engineering
Avadi IAF, Muthapudupet
Chennai - 600055

Respected Sir,

Sub: Requisition for the approval to conduct Value Added course in our ECE department – Reg.

We wish to conduct Value Added course in our ECE department on the topic "ARDUINO" a Guest Lecture Series From 05/09/2022 to 20/09/2022.
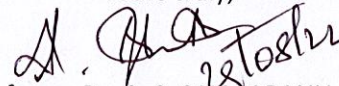
Resource Person:
S.BALAMURUGAN
STANFORD INDIA BIODESIGN
FELLOW SCHOOL OF INTERNATIONAL BIODESIGN
AIIMS NEW DELHI

The objective of conducting this Value Added course will give the industry focus in developing skills required by using latest technology advancement in "ARDUINO". This effort will benefit our Student's community and bring core strength in engineering field.

Thank you,

Permitted to organize the above Programme
Date 29/8/22

Yours truly,

Professor Dr. A. S. SALMABANU
Head of the Department/ECE

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

CHENNAI
600 055

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University, Chennai
NAAC Accredited Institution
"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.
ANNA UNIVERSITY COUNSELLING CODE : 1101

DEPARTMENT OF ELECTRONICS &COMMUNICATION ENGINEERING

CERTIFICATE COURSE-**ARDUINO**

Academic Year: (2022-2023)

COURSE CONTENT:

MODULE NO.	CONTENT	DURATION(Hrs)
MODULE 1	Introduction to Embedded Systems • Anatomy of Embedded Systems • Introduction to Open Source platform • Introduction of Electronic Components • Introduction to Sensors • Introduction to Computational Devices	6
MODULE 2	Introduction of Electronic Components • What is Electronic Component? • History of Electronic Component • Various Electronic Component • How to use Electronic Component	7
MODULE 3	Introduction to Sensors • Components • Application of What is Sensor? • Various Basic Industrial Sensors-IR- Analog Sensor ♣ IR Digital Sensor • Color IR _TSOP Sensor • Light Sensor • Sound Sensor • DTMF Module • Selection of Sensor • Basic working Technique of Sensor • Application of Sensor • How to Interface Sensor	6

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

	• How to Design Analog/Digital Sensors	
MODULE 4	Introduction to Computational Devices • What is Computational Device? • Transistor • Logic Gates • Microprocessor • Microcontroller • Difference B/W Various Computational Devices • Application of various Computational Devices • Selection of Computational Device	9
MODULE 5	How to work on Educational & Engineering Level Actuator • DC Motor • DC Geared Motor • Stepper Motor • Servo Motor	2

TOTAL=30 HRS

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University, Chennai
NAAC Accredited Institution
"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.
ANNA UNIVERSITY COUNSELLING CODE : 1101

Value Added Course Tentative Time Table And Schedule

Value Added Course Name: ARDUNIO
Date of Commencement: From 05/09/2022
Timing: Week Days: 4:00 pm to 6:00 pm
          Saturday's : 4.00 pm to 7.00 pm
Tentative Date of Exam- 20/09/2022
Tentative Course Schedule - 05/09/2022 to 20/09/2022 (As per following)
No. Of Days: 14 Days
Course Hours: 30
Speaker: Mr. S.BALA MURUGAN

1. Module -1: Introduction to Embedded Systems– 05-09-2022 to 07-09-2022 – 2 Hours Per Day (3 days) (6 Hrs)

2. Module -2: Introduction of Electronic Components– 08-09-2022 to 12-09-2022 – 2 Hours Per Day and 3 hours on Saturday (3 days) (7 Hrs)

3. Module -3: Introduction to Sensors – 13-09-2022 to 15-09-2022 – 2 Hours Per day (3 days) (6 Hrs)

4. Module -4:Introduction to Computational Devices – 16-09-2022 to 19-09-2022 – 2 Hours Per Day and 3 hours on Saturday (4 days) (9 Hrs)

5. Module -5:How to Work On Educational & Engineering Level Actuator – 20-09-2022– (1 Days) (2 Hrs)

PRINCIPAL
AALIM MUHAMMED SALEGh
COLLEGE OF ENGINEERING
AVADI - IAF, MUTHAPUDUPET
CHENNAI 600 055

Department of Electronics and Communication Engineering
Value Added Course:Arduino (2022-2023)
Year/Semester:IV/VII

S. No	Reg No	Student Name
1	11011910600	ABDUR RAHMAN M Y
2	11011910600	AFFAN NABEEL A
3	11011910600	AMEENA S
4	11011910600	ARUN KUMAR B
5	11011910600	KISHORE ARAVIND M
6	11011910600	MATEEN AHMED N
7	11011910600	MD TAHIR PR
8	11011910600	MOHAMED ABDULLAH I
9	11011910600	MOHAMED ABUSALIH K
10	11011910601	MOHAMED FUZAIL A
11	11011910601	MOHAMED HASSAN S
12	11011910601	MOHAMED IRFAN A
13	11011910601	MOHAMED ISHAQ R
14	11011910601	MOHAMED ISMAIL J
15	11011910601	MOHAMED JAVITH NAZEEM N
16	11011910601	MOHAMED KALIFATHULLAH M
17	11011910601	MOHAMMED FAZIL A
18	11011910601	MOHAMMED RAHIM A
19	11011910602	NADAVALA SASI VADHAN
20	11011910602'	NITHIN A
21	11011910602	PRASANNA KUMAR S
22	11011910602	RAHAMAAN A R
23	11011910602	SADHU BALA SAI KRISHNA
24	11011910602	SEENI HABEBU MOHAMED A
25	1101191062	SHAHID HUSSAIN N
26	11011910602	SYED ALI NOVFAL

27	110119106030	SYED IRFAN K									
28	110119106031	THANGARANI K									
29	110119106032	TOUHEED KHAN S									
30	110119106301	MOHAMED ASWERDEEN M									
31	110119106302	MOHAMED YASEEN									
32	110119106501	P.V.KRISHVA KESAV									
33	110119106701	H.MUBEENA									

PRINCIPAL
AALIM MUHAMMED SALI
COLLEGE OF ENGINEERING

CHENNAI
600 055

C-ID-2210602

indiamart

CERTIFICATE
OF PARTICIPATION

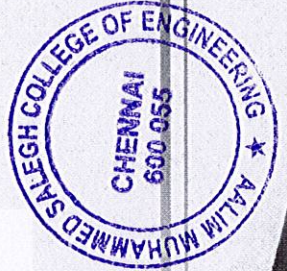This certificate is proudly presented to

AFFAN NABEEL A

has successfully completed 5 days of valued Added Course in "**ARDUINO**" from 05/09/2022 to 20/09/2022. We appreciate your hard work & Sincerity towards your course and wish you good luck for your future endeavor.
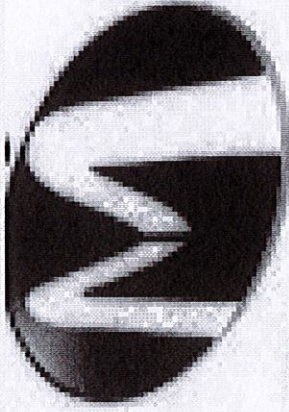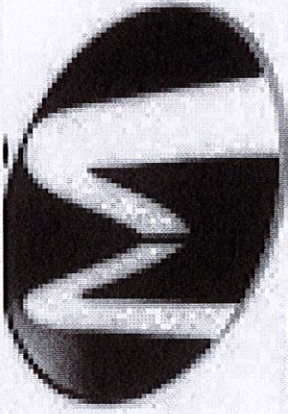
BALAMURUGAN S
TRAINER

DINESN AGARVAL
CEO, INDIAMART

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

SALEGH COLLEGE OF ENGINEERING
CHENNAI
600 055
AALIM MUHAMMED

C-ID-2210603

indiamart

CERTIFICATE
OF PARTICIPATION

This certificate is proudly presented to

AMEENA S

has successfully completed 5 days of valued Added Course in "ARDUINO" from 05/09/2022 to 20/09/2022. We appreciate your hard work & Sincerity towards your course and wish you good luck for your future endeavor.

Dinesh Agarwal

DINESN AGARVAL
CEO, INDIAMART

Balamurugan

BALAMURUGAN S
TRAINER

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING
CHENNAI
600 055

C-ID-2210604

indiamart

CERTIFICATE
OF PARTICIPATION

This certificate is proudly presented to

ARUN KUMAR B

has successfully completed 5 days of valued Added Course in **"ARDUINO"** from 05/09/2022 to 20/09/2022. We appreciate your hard work & Sincerity towards your course and wish you good luck for your future endeavor.

Dinesh Agarwal

DINESN AGARVAL

CEO, INDIAMART

Balamurugan

BALAMURUGAN S

TRAINER

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEER"

CHENNAI
600 055
AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING