Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

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<u>Requisition Letter</u>   23.10.2021

FROM

The HOD
Department of Mechatronics
Bharath Institute of Higher Education and Research
Selaiyur-Chennai- 73

TO

The Dean Engineering
Bharath Institute of Higher Education and Research
Selaiyur-Chennai- 73

Respected Sir,

Subject: Requisition for conducting Value Added course reg.

The school of Mechanical sciences had planned to conduct a 5 day value added course on the topic " Course on **Arduino Hands-On**" dated from 01.11.2021 to 05.11.2021 . In this regard, I request you to kindly grant permission for conducting the same.

Thanking You

HOD   Dean Engineering

Date: 23.10.2021

Department of Mechatronics

Circular

The Department of Mechatronics, BIHER is glad to conduct a 5 - day Value Added Program on **"COURSE ON ARDUINO HANDS ON"** dated from 01.11.2021 for a period of 25 hours. Those who are interested to participate do register your name with the program coordinator mentioned below.

Resource persons:

Dr.P.Sengottuvel,
Professor,
BIHER

Mr. Shanthi lal
Skilled Teacher,
Jay Robotic tech-pvt Ltd-Tambaram

Maximum No. of registration Allowed – 56

*First come first serve basis.

Program Coordinator:
Mrs.SRIDEVI
Assistant Professor
Mr.J.DHANASEKAR
Assistant Professor,
E-Mail:jdhanas   @gmail.com
Mobile: 984125

<u>**Department of Mechatronics**</u>

COURSE ON ARDUINO HANDS ON

OBJECTIVES:

This course will show you how to use your Arduino to control a robot, while providing step-by-step instructions on the entire robot building process. You'll learn Arduino basics as well as the characteristics of different types of motors used in robotics.

[DAY: 1]MODULE 1 Introduction to Arduino   (5 Hrs)

Introduction to Arduino, Pin configuration and architecture, Device and platform features, Concept of digital and analog ports, Familiarizing with Arduino Interfacing Board, and Arduino platform.

[DAY: 2]MODULE II Basic Concepts of Arduino (5 Hrs)

Arduino data types, Variables and constants, Operators, Control Statements, Arrays, Functions. Arduino i/o Functions, Arduino Time, Arduino sensors, Arduino Display.

[DAY: 3] MODULE III Introduction to Sensors (5 Hrs)

Learn about your hosting options during development and how to host your web application to share with users. Determine how to integrate your web application into your hardware system to share measurement data and interact with your hardware.

[DAY: 4]MODULE IV Drives and control systems (5 Hrs)

Hydraulic systems, power supply, servo valve, sump , hydraulic motor , DC servo motors , stepper motors , operation.

[DAY: 5]MODULE V Making it a reality (Arduino & Roboticsb based Projects (5 Hrs)

This will involve designing, developing, coding and implement Arduino project. Projects will include but not limited to Fingerprint Based Car Ignition System, Obstacle avoiding robot using an ultrasonic sensor and Arduino, Fire Fighting Robot using Arduino_Automatic Home cleaning Robot, Arduino Uno based Robotic Arm.

Department of Mechatronics

Value Added Course - COURSE ON AUDINO HANDS ON

PARTICIPANTS LIST

S.No	Reg.No	Name	Department
1.	U16MT002	RAAHUL GANESH R	Mechatronics
2.	U16MT003	DINESH J	Mechatronics
3.	U16MT004	SRINATH B	Mechatronics
4.	U16MT005	DHANASEKAR R	Mechatronics
5.	U16MT006	GOUTHAM M	Mechatronics
6.	U16MT007	SATHIYASEELAN S	Mechatronics
7.	U16MT008	RAKESH P	Mechatronics
8.	U16MT009	ABDUL FAHEEM S	Mechatronics
9.	U16MT010	SAKTHI R	Mechatronics
10.	U16MT011	MELVINE ROHAN R	Mechatronics
11.	U16MT014	SARATHKUMAR D	Mechatronics
12.	U16MT015	SOMENDRAN A	Mechatronics
13.	U16MT018	RATHISH KRISHNAN R	Mechatronics
14.	U16MT501	MUGILAN M	Mechatronics
15.	U16MT502	VIGNESHWAR C B	Mechatronics
16.	U16MT503	KARUPHIN KAWIN J	Mechatronics
17.	U16MT701	CHANDRASEKAR D G	Mechatronics

18.	U16MT702	CHIRANJEEVI G	Mechatronics
19.	U16MT703	VIGNESH A	Mechatronics
20.	U16MT704	AJITH H	Mechatronics
21.	U16ME014	RAVIRAJAN S	Mechanical Engineering
22.	U16ME023	ARAVINDAN K	Mechanical Engineering
23.	U16ME029	DINESH KUMAR M	Mechanical Engineering
24.	U16ME031	ZHAKIRHUSSAIN S	Mechanical Engineering
25.	U16ME033	SHERIN T MAMMEN	Mechanical Engineering
26.	U16ME035	PARTHAN V	Mechanical Engineering
27.	U16ME041	SUVODEEP RAKSHIT	Mechanical Engineering
28	U16ME049	MOHAMED ABDULLAH K	Mechanical Engineering
29	U16ME055	DEEPAK H	Mechanical Engineering
30	U16ME056	YOGESH P	Mechanical Engineering
31	U16ME059	JEFRON G	Mechanical Engineering
32	U16ME062	DANIEL N P	Mechanical Engineering
33	U16ME066	VASANTH KUMAR R	Mechanical Engineering
34	U16ME078	KAMASANI SURESH	Mechanical Engineering
35	U16ME080	MAJID ALI	Mechanical Engineering
36	U16ME082	HARISH S	Mechanical Engineering
37	U16ME087	ANAND KUMAR .	Mechanical Engineering
38	U16ME093	MACHUNURU PRASAD KUMAR REDDY	Mechanical Engineering
39	U16ME113	PYNKHLAINBORLANG KHARSATI	Mechanical Engineering
40	U16ME115	GUNA SUKESH	Mechanical Engineering
41	U16ME119	PALAPALA KOTESWARARAO	Mechanical Engineering
42	U16ME120	MADDIKARA SRIKAMTHREDDY	Mechanical Engineering
43	U16ME121	MUKESH K	Mechanical Engineering
44	U16ME129	DEEPAK RAJAN D	Mechanical Engineering

46	U16ME131	VIJAY M	Mechanical Engineering
47	U16ME133	AKASH SAHA	Mechanical Engineering
48	U16ME134	ARANYA JASH	Mechanical Engineering
49	U16AM007	SUNDARESWARAN B	Automobile Engineering
50	U16AM008	PALAPANDALA PRUDHVI	Automobile Engineering
51	U16AM009	THAMIM ANSARI K	Automobile Engineering
52	U16AM010	JAI KUMAR VERMA	Automobile Engineering
53	U16AM012	MOHAMED IMTHIYAZ M	Automobile Engineering
54	U16AM015	PARIMI SAI SURYA VAMSI .	Automobile Engineering
55	U16AM017	AMAL PHILIP GEORGE .	Automobile Engineering
56	U16AM018	ROSHAN ROMARIO FRANCIS .	Automobile Engineering

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF MECHATRONICS

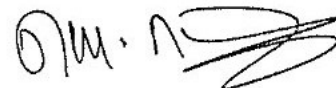## CERTIFICATE OF PARTICIPATION

This is to certify that

SRINATH.B

of Bharath Institute of Science and Technology

had attended the 5 day Value Added Program on "Course on Audino-Hands ON"

organized by the Department of Mechatronics-

Bharath Institute of Higher Education and Research,Chennai on 01.11.2021 to 05.11.2021

Mrs.SRIDEVI/Mr.J.DHANASEKAR

Coordinators

Dr.P.Sengottuvel
Resource Person

ℬharath

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BHARATH INSTITUTE OF SCIENCE & TECHNOLOGY

Selaiyur, Chennai – 73.

DEPARTMENT OF MECHATRONICS

VALVE ADDED COURSE
FEEDBACK FORM

Date: 05/11/2021

NAME	DINESH KUMAR. M				
REGISTER.NO	UI6ME029				
COURSE TITLE	ARDUINO HANDS ON				
	POOR	FAIR	GOOD	VERY GOOD	EXCELLENT
OVERALL PROGRAM				✓	
THE SPEAKER				✓	
AUDIO,VISIAL AIDS,TECHNOLOGY USED					✓
PRESENTATION HAND OUTS					✓

STUDENT SIGNATURE Dinesh Kumar. M

BHARATH INSTITUTE OF SCIENCE & TECHNOLOGY

Selaiyur, Chennai – 73.

DEPARTMENT OF MECHATRONICS

VALVE ADDED COURSE
FEEDBACK FORM

Date: 5/11/2021

NAME	Vighneshwar. C.B				
REGISTER.NO	U16 MT 502				
COURSE TITLE	Arduino Hands on				
	POOR	FAIR	GOOD	VERY GOOD	EXCELLENT
OVERALL PROGRAM					✓
THE SPEAKER				✓	
AUDIO,VISIAL AIDS,TECHNOLOGY USED					✓
PRESENTATION HAND OUTS					✓

C.B Vighneshwar
STUDENT SIGNATURE

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Department of Mechatronics

COURSE ON ARDUINO HANDS ON