METHODIST
COLLEGE OF ENGINEERING AND TECHNOLOGY

Estd : 2008

Approved by AICTE New Delhi | Affiliated to Osmania University, Hyderabad

Abids, Hyderabad, Telangana, 500001

Department of ELECTRONICS & COMMUNICATION ENGINEERING

In-House Certificate Course on **"EMBEDDED SYSTEMS DESIGN & DEVELOPMENT"** during 1, 2,6,7,8 NOV 2014

DAY	9:30-11:30am	11:00-12:30pm		1:15-3:15pm	3:15-4:15pm
DAY-1	Introduction to micro controller	Basics and types of microcontrollers		Uses of Arduino and Raspberry Pi	Basics of sensors and actuators
DAY-2	Basics of Raspberry pi	Versions of Raspberry pi and its applications		Introduction to the Internet of Things	Introduction to Cloud Computing
DAY-3	Starting with embedded systems	The Arduino Open-Microcontroller Platform		Reading from Sensors * Programming fundamentals (C program)	* Arduino Programming & Interface of Sensors
DAY-4	Project 1: Simple LED Program for Arduino Project 2: Integrating Sensors & Reading Environmental Physical Values. Project 3: Reading Environmental Values on Android Smartphone	Project 4: Creating Android App using MIT App Inventor & controlling arduino connected devices through App.	lunch break	Control Devices using Localhost Web Server for Home Automation. • Integrating Ethernet Module & Testing DHCP Connection • Creating Program for Localhost Web Server for controlling devices.	* OS Installation on SD Card Downloading Image Study Various Operating Systems Available Making SD Card: Formatting and Partitions Raspberry Pi SD Installer * OS Configuration
DAY-5	• Booting Into Desktop • GUI Version • CLI Desktop • Changing Timezone • Other Options • Raspi-Config • Test	• Network Setup • Setting Up Using GUI • Setting Up Using • Command Line • Finding Pi's IP Address • Connecting with Wi-Fi/ • LAN/ Datacard		GPIO • Study GPIO Pins • Libraries Using Git • Configuring GPIO Pins	Project 12: LED Program with Raspberry Pi Project 13: Controlling LED with a Switch using Raspberry Pi.Project 14: Integrating IR Sensor with Raspberry Pi.

COURSE COORDINATOR: Mr. SATISH YADAV

HOD-ECE

METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY

"EMBEDDED SYSTEMS DESIGN & DEVELOPMENT" during 1, 2,6,7,8 NOV 2014

III YEAR ECE - A & B

S.N	Roll.No	Name Of The Student	Section	Feedback	Signature
1	160713735001	GUNDA MOUNIKA	A	Satisfactory	G. Mounikam
2	160713735003	THIMMAPURAM AMRITHA REDDY	A	Satisfactory	TAR Reddy
3	160713735004	SACHIN KUMAR KATAREY	A	Good	Sachin K
4	160713735005	N SAI KRISHNA REDDY	A	Good	N Reddy
5	160713735007	VUMENTHALA DEESHMA	A	Good	V. Deeshma
6	160713735009	T VENUGOPAL REDDY	A		T.V. Reddy
7	160713735012	DONTHENENI ANVESH	A	Good	D Anvesh
8	160713735015	KRISHNA GOWLIKAR	A		P. Komusani
9	160713735017	POOJA KOMUSANI	A	Good	P Kseniya
10	160713735018	RACHAPUDI PRATHYUSHA	A	Good	Prathyusha
11	160713735020	B RUTHWIJ REDDY	A		Ruthwik Reddy
12	160713735022	GOVINDREDDY PRASHANTH REDDY	A	Good	G. Prashanth
13	160713735028	THAKUR NIKHIL SINGH	A	Excellent	T.N. Singh
14	160713735031	KONAPALA VISHWESHWAR RAO	A		K Vrao
15	160713735034	CHELIMILLA SHESHANK	A	good	Shashank C.
16	160713735037	MD KHALED JAMEEL	A		Md. K
17	160713735048	BANDHANADHAM AMULYA	B	Satisfactory	B. Amulya
18	160713735052	SADUVALA CHANDRA SHAKER	B	Good	S Shivarij
19	160713735058	NEELI SHIVANI	B		N. Shivani
20	160713735059	SOMESHWAR SINGH	B	Good	Someshwar Singh
21	160713735060	N LIKHITHA	B		N. Lik
22	160713735063	ABDUL RAZZAK AKRAM	B	Good	A. Kram
23	160713735066	GARRAPALLY MANIKANTH GOUD	B		G. M Goud
24	160713735068	KOMMA JAYA SREE	B	Satisfactory	K Jayasree
25	160713735069	POLAMARASETTI SHEKAR BABU	B		P.S. Babu
26	160713735070	KAYYAM NITHISHA	B		K. Nithisha
27	160713735071	APKA NAGESH	B	Satisfactory	A Nagesh
28	160713735073	BIBINAGARAM SHRAVAN KUMAR	B		Azeem
29	160713735074	ABDUL AZEEM	B	Satisfactory	Azeem
30	160713735075	KODURU HIMAJA	B		Himaja
31	160713735076	MOHAMMED MUQTADIR	B		
32	160713735077	AYESHA HUMERA	B	Good	A Humera
33	160713735079	RAPOLU SAI SANTHOSH	B		
34	160713735080	VUYYALA VIJAY KUMAR	B	Satisfactory	V Vijay Kumar
35	160713735082	HARIKRISHNA SRIRAMA	B	good	Sriram
36	160713735304	SHEIK TAHEER	B	Satisfactory	S Taheer
37	160711735088	MD.SADIQ	B	Good	Md Sadiq

* **Feed back:** Excellent/Good/Satisfactory

METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY

(Affiliated to O.U. & Approved by AICTE)

King Koti Road, Abids, Hyderabad – 500 001, Telangana, INDIA

Certificate of Participation

Certified that ~~Mr~~/Ms Komma Jaya Sree Bearing R.No: 160713735068

of II-I Semester ECE Branch, Participated in Certification Courses

on Embedded Systems Design & Development during 1, 2, 6, 7, 8 NOV' 2014.

in Collaboration with In house training programme.

Director **HoD** **Principal**

Estd : 2008

METHODIST
COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE New Delhi | Affiliated to Osmania University, Hyderabad
Abids, Hyderabad, Telangana, 500001

Department of ELECTRONICS & COMMUNICATION ENGINEERING

IEEE SB Collaborated Certificate Course on **"ARDUINO PROGRAMMING & APPLICATIONS"** during 30, 31 MAR & 6, 7, 8 APR 2015

Days	9.30 - 11.00am	11.00 -12.30 pm	LUNCH BREAK	1.15 -3.15pm	3.15 - 4.15pm
Day1	Introduction to Embedded systems	Basics of Micro Controllers	-	Arduino Basics	Arduino Architecture & Board layout Basics
Day2	Fundamentals to Embedded C programming	AVR programmer using Data types and keywords	-	Arduino Integrated development environment (IDE), identifying Arduino family boards	Connecting system Port to Arduino
Day3	Simple LED Blink Programming	Interfacing of Infra Red sensor	-	Interfacing of LDR (Analog values), varying the values through Analog & Digital Pins	Interfacing with IR and LED
Day4	Ultrasonic Sensor types	Interfacing of ultra sonic sensor to Arduino	-	Observing ultra sonic values in serial monitor, Logic to use "For" &"While" loops in Ultrasonic sensor	Logic Blueprint for Obstacle Avoiding Robot
Day5	Interfacing the H-Bridge with Arduino	Motors control using code in Arduino.	-	Interfacing between Motors and Ultrasonic Sensor, Complete interfacing of Ultrasonic & Motors & LED	Final Obstacle Avoiding Robot

COURSE COORDINATOR: Mr. SATISH YADAV

HOD-ECE

METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ECE

WORKSHOP ON ARDUINO-2015

"ARDUINO PROGRAMMING & APPLICATIONS" during 30, 31 MAR & 6, 7, 8 APR 2015

Sl.No	Roll No	Name	Signature	Feedback
1	160712735065	R MANISHA		Excellent
2	160712735074	P VIDISHA		Satisfactory
3	160712735075	G VENKAT SOUJANYA		Good
4	160712735086	P JESHWANTH SAIKIRAN		Good
5	160712735102	PRIYANKA SHIRODHKAR		Good
6	160712735103	R RAKESH KUMAR		Satisfactory
7	160712735106	Y RUTHVIK		Good
8	160712735107	B POOJA		Good
9	160712735111	G THRINATH REDDY		Good
10	160712735301	BABU KHAN		Satisfactory
11	160712735303	MD ISRAN		Satisfactory
12	160712735310	G MAMATA		Good
13	160712735311	SRUTHI		Good
14	160712735312	CH VANI		Good
15	160712735313	GOUTHAM KUMAR		Good

* **Feed back:** Excellent/Good/Satisfactory

METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY

(Affiliated to O.U. & Approved by AICTE)

King Koti Road, Abids, Hyderabad – 500 001, Telangana, INDIA

Certificate of Participation

Certified that Mr/~~Ms~~ Y. Ruthvik Bearing R.No: 160712735106

of III-I Semester ECE Branch, Participated in Certification Courses

on Arduino Programming & Appl during 30,31 Mar & 6,7,8 Apr '2015.

in Collaboration with IEEE Student Branch, MCET.

Director **HoD** **Principal**