



Estd : 2008

# METHODIST

## COLLEGE OF ENGINEERING AND TECHNOLOGY

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

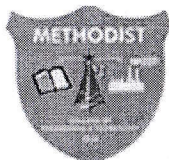
| 1.1.2 Number of Certificate/diploma program introduced during last five years |         |         |         |         |         |
|---|---------|---------|---------|---------|---------|
| TIMELINE:2014-15 TO 2018-19   |         |         |         |         |         |
| DEPARTMENTS   | 2018-19 | 2017-18 | 2016-17 | 2015-16 | 2014-15 |
| CIVIL   | 1       | 1       | 0       | 0       | 0       |
| CSE   | 4       | 3       | 3       | 0       | 4       |
| ECE   | 3       | 5       | 2       | 1       | 2       |
| EEE   | 3       | 2       | 1       | 1       | 1       |
| MECH(UG)  | 6       | 7       | 8       | 3       | 2       |
| MECH(PG)-CAD CAM  | 2       | 3       | 0       | 1       | 0       |
| MBA   | 1       | 1       | 1       | 0       | 0       |
| CERTIFICATE PROGRAMS<br>INRODUCED YEARWISE                                    | 20      | 22      | 15      | 6       | 9       |
| CERTIFICATE PROGRAMS INRODUCED OVER LAST 5 YRS                                |         |         |         |         | 72      |

### SUMMARY

- Total no. of certificate programs organized over past 5 years under 5-Engineering programs & DBM are summarised in above table
- These programs are conducted for 5 -6 days @ 6-7 hours per day, spread across 1-2 months in a semester
- The Resource persons are drawn either from reputed training center/industry/ in-house expertise
- A significant improvement in the total number of courses from year to year is observed
- The Eventwise 1). schedule & syllabus, 2). Sample participation certificate, 3). Participants list are herewith attached

**Details of Attachment: CERTIFICATE COURSES OF ECE DEPARTMENT**

| <b>Program name</b> | <b>Name of the Certificate/diploma introduced in last 5 years</b>                            | <b>Year of introduction</b> | <b>No of Students Participated</b> |
|---------------------|--|-----------------------------|------------------------------------|
| BE(ECE)             | In-house certificate program on FPGA based VLSI Design using Microwind                       | 2018-19                     | 73                                 |
| BE(ECE)             | IETE student forum Collaborated certificate program on Aurdino programming and applications  | 2018-19                     | 44                                 |
| BE(ECE)             | IETE student forum Collaborated certificate program on PCB Design and Circuit simulation     | 2018-19                     | 27                                 |
| BE(ECE)             | In-house certificate program on Creation & Simulation of Microstrip antennas using HFSS      | 2017-18                     | 64                                 |
| BE(ECE)             | MSR PROJECTS Collaborated program on MATLAB programming on Image processing                  | 2017-18                     | 64                                 |
| BE(ECE)             | Armtronics Collaborated Certificate program on Embedded systems Design & Development         | 2017-18                     | 33                                 |
| BE(ECE)             | IETE student forum Collaborated certificate program on Aurdino programming and applications  | 2017-18                     | 21                                 |
| BE(ECE)             | IETE student forum Collaborated certificate program on PCB Design and Circuit simulation     | 2017-18                     | 97                                 |
| BE(ECE)             | Armtronics Collaborated certificate program on PCB Design and Circuit simulation             | 2016-17                     | 54                                 |
| BE(ECE)             | Armtronics Collaborated certificate program on Embedded systems Design & Development         | 2016-17                     | 38                                 |
| BE(ECE)             | Armtronics Collaborated certificate program on PCB Design & fabrication                      | 2015-16                     | 59                                 |
| BE(ECE)             | In-house certificate program on Embedded systems Design & Development                        | 2014-15                     | 37                                 |
| BE(ECE)             | IEEE student branch Collaborated certificate program on Aurdino programming and applications | 2014-15                     | 15                                 |



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### Department of ELECTRONICS & COMMUNICATION ENGINEERING

IETE SB Collaborated CERTIFICATE COURSE on "ARDUINO PROGRAMMING & APPLICATIONS" during 19, 20, 24, 25, 31 JAN 2019

| Days | 9.30 - 11.00am                         | 11.00 -12.30 pm                              | LUNCH<br>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               |

*M. Satish*  
COURSE COORDINATOR: Mr. M SATISH YADAV

*Shobana*  
HOD-ECE

# 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 S. Poorna Sai Bearing R.No: 160711735322  
of IV Semester ECE Branch, Participated in Certification Courses  
on Arduino Programming & Appl during 19,20,24,25,31 JAN'2019.  
in Collaboration with IETE Student Branch, MCET.

**Director**

**HoD**

**Principal**

**METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**WORKSHOP ON ARDUINO FOR II/IV ON 19&20 JAN 2019**

| s.no | Roll No.     | Name                               | year | Branch & | Signature          | Feedback     |
|------|--------------|------------------------------------|------|----------|--------------------|--------------|
| 1    | 160717735034 | G.Meghna                           | 2    | ECE-A    |                    |              |
| 2    | 160717735027 | K.NAVEEN KUMAR GOUD                | 2    | ECE-A    | <i>K. Naveen</i>   | Good         |
| 3    | 160717735015 | B.VaishnavSamratYadav              | 2    | ECE-A    |                    |              |
| 4    | 160717765096 | Kushal                             | 2    | ECE-B    |                    |              |
| 5    | 160717735017 | Priya Pottipalli                   | 2    | ECE A    | <i>Priya</i>       | Satisfactory |
| 6    | 160717735028 | Banda sirisha                      | 2    | ECE-A    |                    |              |
| 7    | 160715735050 | RAHUL Engle                        | 4    | ECE-A    | <i>Rahul</i>       | Good         |
| 8    | 160715735001 | Mohd Abdul mughni noman            | 4    | ECE-A    |                    |              |
| 9    | 160717735003 | N.P Viraja                         | 2    | ECE - A  |                    |              |
| 10   | 160717735003 | N.P Viraja                         | 2    | ECE-A    | <i>N.P. Viraja</i> | good         |
| 11   | 160717735032 | S Gnaneswar                        | 2    | ECE-A    |                    |              |
| 12   | 160717735035 | V Moksha                           | 2    | ECE-A    |                    |              |
| 13   | 160717735018 | Mohammed Awaisuddin Nawaz Khan     | 2    | ECE-A    | <i>M. Awais</i>    | good         |
| 14   | 160717735040 | Mohammed Amer Siddique             | 2    | ECE-A    |                    |              |
| 15   | 160717735306 | GURUKU MAMATHA                     | 2    | ECE-A    | <i>Guruku</i>      | Good         |
| 16   | 160717735091 | Namita Batchu                      | 2    | ECE-B    |                    |              |
| 17   | 160717735115 | Mansi                              | 2    | ECE-B    | <i>Mansi</i>       | Satisfactory |
| 18   | 160717735078 | Sunil sarswa                       | 2    | ECE-B    |                    |              |
| 19   | 160717735069 | Mukarram mustafa                   | 2    | ECE-B    | <i>Mukarram</i>    | Excellent    |
| 20   | 160717735322 | S. Poorna sai                      | 2    | ECE-B    | <i>S. Poorna</i>   | Satisfactory |
| 21   | 160717735108 | Balla. Durga prasad                | 2    | Ece -B   | <i>B. Durga</i>    | Good         |
| 22   | 160717735090 | Kasula Ritika                      | 2    | ECE-B    |                    |              |
| 23   | 160717735089 | Gaddi Sonali                       | 2    | ECE-B    |                    | Good         |
| 24   | 160717735062 | Chilukala pavithra                 | 2    | ECE-B    |                    |              |
| 25   | 160717735065 | Konkari Prasanna                   | 2    | ECE-B    | <i>K. Prasanna</i> | Satisfactory |
| 26   | 160717735094 | Rohith Kumar                       | 2    | ECE-B    |                    |              |
| 27   | 160717735093 | Manaswini Goske                    | 2    | ECE-B    | <i>Manaswini</i>   | Good.        |
| 28   | 160717735096 | Kushal vas.Vangari                 | 2    | ECE-B    |                    |              |
| 29   | 160717735081 | Mohammed Ruwayd Mohiuddin          | 2    | ECE-B    |                    |              |
| 30   | 160717735106 | M soumya                           | 2    | ECE-B    | <i>M. Soumya</i>   | Satisfactory |
| 31   | 160717735071 | Gunna Divya                        | 2    | ECE-B    |                    |              |
| 32   | 160717735100 | Y.Goutham Sri Phani Datta          | 2    | ECE -B   |                    |              |
| 33   | 160717735118 | Thota Abhilash                     | 2    | ECE -B   | <i>Thota</i>       | Satisfactory |
| 34   | 160717735068 | Gourshetty Sagar                   | 2    | ECE-B    |                    |              |
| 35   | 160717735077 | Ratan vikram                       | 2    | ECE-B    | <i>Ratan</i>       | Good.        |
| 36   | 160717735097 | Moturi Sumanth                     | 2    | ECE-B    | <i>Sumanth</i>     | Excellent    |
| 37   | 160717735320 | Porandla Pranay                    | 2    | ECE-B    | <i>Pranay</i>      | Good         |
| 38   | 160717735104 | M sruthi                           | 2    | ECE -B   | <i>M. Sruthi</i>   | Good.        |
| 39   | 160717735098 | S.Bhavani                          | 2    | ECE-B    | <i>S. Bhavani</i>  | Good.        |
| 40   | 160717735080 | V.keerthi                          | 2    | ECE-B    |                    |              |
| 41   | 160717735095 | G.mounika                          | 2    | ECE-B    |                    |              |
| 42   | 160717735102 | Thumpala Mounika Veera Narayanamma | 2    | ECE-B    | <i>Mounika</i>     | Satisfactory |
| 43   | 160717735070 | M.P.D siva rama krishna            | 2    | ECE-B    | <i>M.P.D. Siva</i> | Excellent    |
| 44   | 160717735099 | Anusha                             | 2    | ECE-B    | <i>Anusha</i>      | Excellent    |

\* Feed back: Excellent/Good/Satisfactory