



Estd : 2008

METHODIST

COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Abids, Hyderabad, Telangana, 500001

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	2	0	0	0	0
ECE	2	3	1	0	2
EEE	1	1	1	1	1
MECH(UG)	0	0	1	0	0
MECH(PG)-CAD CAM	0	0	0	1	0
MBA	0	0	0	0	0
CERTIFICATE PROGRAMS INTRODUCED YEARWISE	6	5	3	2	3
CERTIFICATE PROGRAMS INTRODUCED OVER LAST 5 YRS					19

SUMMARY

- Total no. of certificate programs organized over past 5 years under 5- Engineering programs & MBA are summarised in above table
- These programs are conducted for 5 -6 days @ 6-7 hours per day, spread across 1-2 weeks/ 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

METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY

ABIDS, HYDERABAD

EEE Department

Date: 05/01/2019

TO

The Principal/Director,

MCET,

Hyderabad.

SUB: Minute of Meeting for approval for conduction of CERTIFICATE PROGRAMMES for the current semester -Reg

Respected sir,

The dept. of EEE is planning to conduct the following CERTIFICATE PROGRAMMES (workshops) for the current semester 2018-19 (II SEM) . The details are specified below. I request your kind approval for the same.

The syllabus is also attached for your perusal

Sl. no	Programme name	Dates	In collaboration with	coordinator
1.	A FIVEDAY CERTIFICATE COURSE ON MICRO CONTROLLERS AND ARDUINO	MAR 2019	MEPAC Engineering solutions PVT, Ltd.	Dr.G.Raghuchandra Asst. Professor

Thanking you sir,

*Permitted
Law*


HOD-EEE
Head of Department
Department of EEE
Methodist College of Engg & Tech.
Abids, Hyderabad-500 081.

About EEE Department:

The Department of Electrical and Electronics Engineering was started in the year 2008 with an intake of 60, with an objective of imparting quality education in the Electrical and Electronics Engineering. EEE is the oldest of the engineering streams, and its applications are many. The number of career prospects for this group is huge, and it is the reason for many people to join this course. These students are offered with high salaried jobs, especially in the public sector. They are needed in power industry, electrical machine industries, etc. A number of private companies also offer lucrative job roles for these engineers.

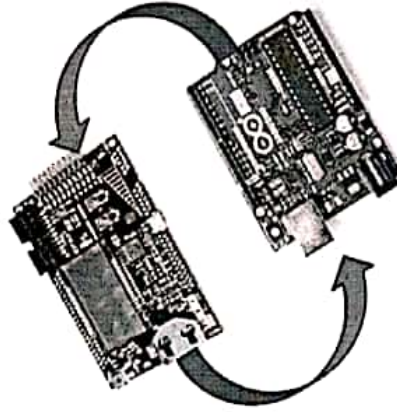
Due to this requirement, Methodist gives a special preference to EEE, and we had built a special base for this group. The laboratories, faculty, etc. for this group are of top notch, and we chalk out various industrial tours, seminars workshops, etc. for the benefit of our students. EEE is one of the core streams of engineering, and it is required in any case. Hence the demand for this group never decreases, and it is the steadiest stream ever.



A FIVE DAY CERTIFICATE COURSE ON MICRO CONTROLLERS AND ARDUINO

ORGANISED BY

Department of Electrical & Electronics Engineering



From
12-3-2019
To
16-3-2019



Head of Department
Department of EEE
Methodist College of Engineering and Technology
Osmania University

REGISTER ON OR BEFORE 12-03-2019
GET TO KNOW THE NEXT GENERATION OF
ARCHITECTURES IN MICROCONTROLLERS

Speaker:
Person from MEPAC ENGINEERING SOLUTIONS
Pvt.Ltd.

METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY
(Affiliated to Osmania University)

King Koti Road, Abids, Hyderabad, Telangana-500001

METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE COURSE ON MICRO CONTROLLERS AND ARDUINO

SCHEDULE

	Times	Activity/Session	Location
DAY1	9.30AM	Registration, Welcome & Introductions Presentation on Understanding electronic elements	Seminar hall
	10.00AM		
	11.00-12.30 PM		
	12.30-1.00pm	Lunch	
	1.00-4.00PM	Practice session	Simulation lab
DAY2	9.30AM	Welcome & Introductions	Seminar hall
	10.00-12.30	Presentation on LED application in traffic light systems,Controlling of LED,SCROLLING TEXT IN LCD DISPLAYS	
	12.30-1.00pm	LUNCH	
	1.00-4.00PM	Programming work	Simulation lab
Day3	10.00-12.30	Analog versus digital information	Seminar hall
	12.30-1.00pm		
	1.00-4.00PM	Mapping input to output	Simulation lab
Day4		Developing a project idea	Seminar hall
	12.30-1.00pm	LUNCH	
	1.00-4.00PM	Brief course in Arduino programming	Simulation lab
Day5	10.00-12.30pm	Presentation on seven segment display applications, controlling servo motor with joystick, Arduino programming	Seminar hall
	12.30-1.00pm	LUNCH	
	1.00-4.00PM	Coding and Simulink practice session	Simulation lab


Head of Department
 Department of EEE
 Methodist College of Engineering & Technology
 15, Hyderabad Road, Sec. 10, Hyderabad - 500030, India.

syllabus

. It is intended as an orientation to the scope of the workshop, answer a few basic questions about microcontrollers and embedded computing, and establish the goals and expectations of the course.

1. What is a microcontroller?
2. Presentation and discussion of project examples.
3. The possibilities and limitations of the Arduino.
4. Basic terminology.
5. Outline and expectations of the workshop..

Brief Course in Arduino Programming

1. Program notation: variables, functions, control flow, Arduino conventions.
2. The concept of a program variable.
3. Numerical values and basic numerical operators.
4. *if/then/else*
5. Iteration using for loops.
6. Real world timing and the delay() function.

Elementary Electronics

1. Elementary electrical theory: current, voltage, resistance, and Ohm's Law.
2. Reading a simple schematic.
3. Wiring on a solderless breadboard.
4. Voltage dividers: resistor/resistor, resistor/switch, resistor/photoresistor, resistor/LED.

5. Using a multimeter to measure voltage and resistance.
6. Wiring up a switch with pullup resistor.
7. Wiring up an LED with dropping resistor.
8. Wiring up a photoresistor voltage divider (as basic analog sensor).
9. Making paper apertures for light sensors.

Analog versus Digital Signals

1. Analog versus digital information.
2. Resolution and sampling.
3. Thresholding.
4. Averaging.

Mapping Input to Output

1. Wiring up a hobby servo.
2. Using the Servo library.
3. Creating a simple one-in one-out system.
4. Wiring up a speaker, creating tones.
5. Human interfacing.

Developing a Project Idea


1. Discussion of objectives: simple one-input, one-output device.
2. Discussion of of project directions, e.g. temporal behavior and sequencing, animating a physical object, combining movement and sensing.
3. Project planning and pitching.


Head of Department
Department of EEE
of Engg & Tech
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METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
A FIVE DAY CERTIFICATE COURSE ON MICRO CONTROLLERS AND ARDUINO
(DURING 12TH MARCH-16TH MARCH 2019)

LIST OF REGISTERED STUDENTS

S.NO	HT NO	NAME	SIGNATURE
1.	160716734001	Suri Sree Sainath	S. Sainath
2.	160716734002	G Praveen Kumar Reddy	G Praveen
3.	160716734003	Devaram Satya Dev Reddy	Satya Dev
4.	160716734004	ObulreddyAnitha	O. Anitha
5.	160716734005	Sandannagari Govardhan Reddy	G. Reddy
6.	160716734006	Pasham Srinidhi	P. Srinidhi
7.	160716734007	KuntaPravalika Reddy	K. Pravalika
8.	160716734009	Chittireddy Karthik Reddy	Ch. Karthik
9.	160716734010	Md Asif	MD ASIF
10.	160716734012	ChitimelliRoshini	Roshini
11.	160716734013	ChiraboinaUpender Yadav	U. Yadav
12.	160716734014	Chinthakindi Sunil Kumar	Sunil Kumar
13.	160716734015	Valiveti Sai Pavan Kumar	V. Sai pavan
14.	160716734016	N Ashok Reddy	A. Reddy
15.	160716734017	O Vijay	O. Vijay
16.	160716734018	MahindarkarAmisha	M. Aishwarya
17.	160716734019	MukkapalliSrujan	M. Srujan
18.	160716734020	Mohammed Shamoan Suleman	M.D. Suleman
19.	160716734021	C Shiva Jyothi	C. Shiva Jyothi
20.	160716734023	Kokkula Sai	Sai
21.	160716734025	Anapu Sai Nikhil Chary	A. Sai Nikhil
22.	160716734027	Marapelly Naveen	M. Naveen
23.	160716734030	Kazi Mohmmed Saif Ullah	Saif Ullah
24.	160716734032	Beedarkar Akhilesh Prasad	B. Akhilesh
25.	160716734033	Kyatham Mallika	Mallika
26.	160716734036	D Harshitha	H. Harshitha
27.	160716734037	Shaik FirdosHyder	S. FirdosHyder
28.	160716734038	Dharavath Dileep	D. Dileep
29.	160716734042	Ramavath Sunil Naik	R. Sunil Naik
30.	160716734043	Kalluri Swathi Rukmini	S. Swathi
31.	160716734301	BODAS SKIKANTH	S. Srikanth
32.	160716734302	DASOJU PRAKASH	P. Prakash
33.	160716734303	G SANDEEP REDDY	G. Sandeep Reddy
34.	160716734304	GONELA NAVEEN	G. Naveen
35.	160716734305	KETHAVATH VITTAL	V. Vittal
36.	160716734306	K RAGHAVENDRA NAYAK	K. Raghavendra


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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
A FIVE DAY CERTIFICATE COURSE ON MICRO CONTROLLERS AND ARDUINO
(DURING 12TH MARCH-16TH MARCH 2019)

LIST OF REGISTERED STUDENTS

37.	160716734307	MAQBUL PASHA	<i>Maqbul</i>
38.	160716734308	METHRI KUMAR	<i>Methri methri</i>
39.	160716734310	PIDAMARTHI SAMPATH	<i>Sampathkumar</i>
40.	160716734311	POGULA SOUJANYA	<i>Soujanya</i>
41.	160716734312	POTHU MADHUSHA	<i>Madhusa</i>
42.	160716734313	SABIYA BEGUM	<i>Sabiya</i>
43.	160716734314	SANGEM VINAY KUMAR	<i>S-Vinay Kumar</i>
44.	160716734315	T BHAVANI SHANKAR	<i>T. Bhavani Shankar.</i>
45.	160716734317	VALLAPUREDDY SHRAVYA	<i>Shravya</i>

[Signature]
Head of Department
Department of EEE
Methodist College of Engg & Tech.
Abids, Hyderabad-500 002.

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 Gowela. Naveen Bearing R.No: 160716734304

of III Semester EEE Branch, Participated in Certification Courses

on 12th - 16th during March 2019

in Collaboration with MEPAC Engineering Solutions Pvt Ltd



Director



Principal