

METHODIST

COLLEGE OF ENGINEERING AND TECHNOLOGY

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

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					
INRODUCED YEARWISE	6	5	3	2	3

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: 06/01/2017

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 2016-17 (II SEM). The details are specified below. I request your kind approval for the same.

The syllabus is also attached for your perusal

SI.	Programme name	Dates	In collaboration	coordinator
no			with	ji
1.	FIVEDAY CERTIFICATE COURSE ON ELECTRICAL DESIGNING & AUTOMATION	APRIL 2017	ELECTRO MOTION TECHNOLOGI ES	Mr. J.RAMESH Asst. Professor

Thanking you sir,

Panita Laur HOD-EEE

Head of Department EEE Tach.

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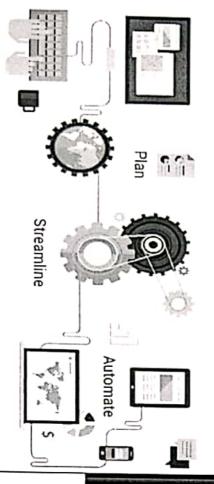
Methodist Hyderabad-500 001.

Abids, Hyderabad-500

About EEE Department:

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

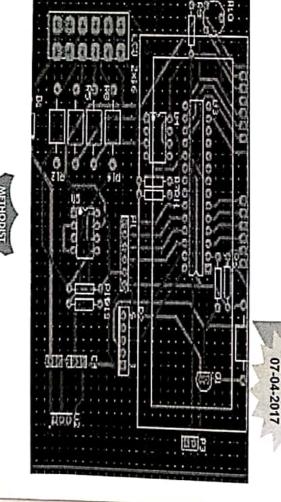
Hence the demand for this group never decreases, and it is the steadiest stream ever. our students.EEE is one of the core streams of engineering, and it is required in any case. notch, and we chalk out various industrial tours, seminars workshops, etc. for the benefit of built a special base for this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



Organized by

Department of Electrical & Electronics Engineering

03-04-2017



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

King Koti Road, Abids, Hyderabad, Telangus 5,06001

Speaker:
Person from ElectRoMation Technologies

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ELECTRICAL DESIGNING & AUTOMATION

FIVE DAY CERTIFICATE COURSE ON

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

CERTIFICATE COURSE ON ELECTRICAL DESIGNING & AUTOMATION

SCHEDULE

	Times	Activity/Session	Location	
	9.30AM	Registration,		
DAYI	10.00AM	Welcome & Introductions	Seminar hall	
	11.00-12.30 PM	Presentation on important aspect of automation control		
	12.30-1.00pm	lunch		
	1.00-4.00PM	Practice session on computers by using matlab software	Simulation lab	
D.1370	9.30AM	Welcome & Introductions		
DAY2	10.00-12.30 PM	Presentation on modeling, design, analysis, simulation, operation, control	Seminar hall	
	12.30-1.00pm	LUNCH		
	1.00-4.00PM	Programming work	Simulation lab	
DAY3	10.00-12.30 PM	FUNDAMENTALS OF PLC SOFTWARE	Seminar hall	
	12.30-1.00pm	LUNCH		
	1.00-4.00PM	USING LADDER LOGIC FOR SIMPLE DIGITAL FUNCTIONS & practice session	Simulation lab	
DAY4	10.00-12.30 PM	LEARN REGISTERS IN PLC SYTEM	Seminar hall	
	12.30-1.00pm	LUNCH		
	1.00-4.00PM	HANDS ON TRAINING VARIOUS PARAMETERS	Simulation lab	
DAY5	10.00-12.30 PM	Presentation on design and implementation of computer-based industrial information systems"	Seminar hall	
	12.30-1.00pm	LUNCH		
	1.00-4.00PM	Coding and Simulink practice session	Simulation lab	
	4.00-4.15PM	VOTE OF THANKS	1.	

Syllabus of Automation and electrical Design

HAZARDOUS AREAS

- Introduction: explosion consequences and Risk assessment
- Properties of flammable materials
- Definitions
- Classification system: sources of release and zoning
- · Classification of apparatus: grouping and Temperature

PLC PROGRAMMING AND DESIGN

INTRODUCTION

Introduction and brief history of PLCs and alternative control systems

ABOUT OF FUNDAMENTALS OF PLC SYSTEM

- Block diagram of typical PLC
- PLC processor module memory organisation
- Input and output section module types
- Calculation of DI/DO and AI/AO
- Selection of Communication

FUNDAMENTALS OF PLC SOFTWARE

- Methods ofrepresenting Logic, Boolean Algebra, instruction code and graphical presentation
- Fundamental ladder logic instruction set with Differnt make PLC
- Comparison of different manufacturers, memory and data representation and instruction code

USING LADDER LOGIC FOR SIMPLE DIGITAL FUNCTIONS

- Why ladder logic programming and Comparison of relay ladder diagrams
- The concept of the 'scan' and how to apply it
- Contact 'normal' states
- Positive and negative logic
- Basic Boolean functions

LEARN REGISTERS IN PLC SYTEM

- Number systems
- Types of register data
- Timers and counters
- it shift and rotate
- Table functions

HANDS ON TRAINING VARIOUS PARAMETERS

- Practical methods to improve quality: ADVANCED CONTROL WITH PLCS
- Examples, drive logic and alarm handling
- Use of advanced programming functions

BATCH PROCESSES AND SEQUENTIAL CONTROL

- Step advance
- Fault detection and Recovery
- Multiple recipes or alternative paths
- Sequential function charts

PID CONTROL

The importance of timing and scan time When PID is not always appropriate

Intermittent measurements

Long transport delays

Interface standards, RS-232, RS-422/423 and RS-485

Protocols, Modbus and DH+

Local Area Networks, Ethernet

Monitoring communication links and simple watchdog timers

Fundamentals of IEC 61131-3

Function block diagrams

Ladder diagrams

Instruction list

Sequential function chart

THEORY OF PROCESS CONTROL

Processes, controllers and tuning

PID Controllers - P. I and D modes of operation

Load disturbances and offset

Speed, stability and robustness

Gain, dead time and time constants

Process noise and feedback controllers

BACKGROUND TO SCADA

SCADA concepts and terminology

Typical SCADA architectures

SCADA HARDWARE

1/0 ServersM

Historians

RTUs

Firewalls

Component-level redundancy

SCADA SOFTWARE

Commercially-available SCADA software

Configuration

APPLICATION OF PROTOCOLS IN SCADA

TCP/IP

MODBUS

DNP3

ETHERNET APPLICATIONS IN SCADA

Components

Network redundancy

WIRELESS APPLICATIONS IN SCADA

Terrestrial microwave

Cellular

METHODIST COLLEGE OF ENGINEERING & TECHNOLOGY

King Koti Road, Abids, Hyderabad - 500001

Department of Electrical & Electronics Engineering FIVE DAY CERTIFICATE COURSE ON ELECTRICAL DESIGNING & AUTOMATION (DURING 03 APRIL TO 07 APRIL 2017)

LIST OF PARTICIPANTS

	AJIU A	OF TAKITCH ANTS	
S.No	Rull No	Name	SIGNATURE
1	160713734001	CH PRAGNA	Downey.
2	160713734002	V K SHINEY PRIYANKA	Dailay.
3	160713734003	G SARITHA	Savitly.
4	160713734004	K PRASHANTHI	oxalhanti.
5	160713734005	MD ABDUL SOHAIL	MD Abdut
6	160713734006	J CHARANRAJ	chaseni
7	160713734008	B SRAVAN	Havory
8	160713734010	MD RAWOOF KHAN	Romondo
9	160713734011	T SAIBABA	RABI
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13	160713734015	MD AAMAR KHAN	-Annas bloom
14	160713734016	M MAHESHWAR REDDY	makeshevae
15	160713734017	M BHARATHKUMAR	Bhagath loung
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17	160713734020	SHAIK YOUSF	Shaik Yout.
18	160713734021	SYED AMIR	Gedonin
19	160713734023	S PAVAN KUMAR REDDY	S. Payan buga
20	160713734024	MD JUNAID AHMED	M. D. Ahmed.
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23	160713734032	K VAMSHIDHAR	Bym don
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		OWNER MINUTE	Tribaday

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LIST OF PARTICIPANTS

S.NO	ROLL NO	NAME	SIGNATURE
1	160714734001	Pankaj Kamle	Kanle
2	160714734002	Earla Srinivas	Ray.
3	160714734003	Chada Meher Krishna	Krishu
4	160714734004	Md Mustafa Javeed	Janeed
5	160714734006	Mahmoud Suleman Zubedi	Zubedi
6	160714734007	Dorothy Benedict	Benedict
7	160714734008	B Sai Sridevi	Cas
8	160714734009	Md Mubasher Ahmed Khan	khan
9	160714734010	Bethi Vinay Reddy	Reddy
10	160714734011	Syed Nehal Abrar	Alman
11	160714734012	Mohammed Almas Khan	Chan
12	160714734013	Mohd Sami Uddin	Sago
13	160714734014	Gajawada Sai Suraj	suraj
14	160714734016	Mohammed Zubairuddin	Fubriagelli
15	160714734017	Mohd Ameen	Ameen
16		Pinnenti Satish	Lather
17		Bachu Meghanath Reddy	N pr
18		Mir Faraaz Ali	FarmAlwy
19	160714734025	Mohd Abdul Muneeb	Abolul
20	160714734026	Tarigonda Mukthiyar Basha	
21	160714734028	Chinthakindi Bharadwaj	Charadway
22		Maliha Maheen	Malimit
23	160714734036	Kyatham Saikiran	Salarcine
24	160714734039	Muniganti Aditya Sai	Sal
25		Mohammed Ikram Ahmed	Ahmed
26	160714734031	Syed Faiz Uddin	addin
27		Pochampalli Shravya	Steering.
28	160714734312	Namani Vinay	Vinaj
29	160714734313	Bhuma Phani Bhushan	Bhuchan
30		Thipparthi Aravind Sai	Si
31	16071473431	T Mahesh Hemanth Kuma	
32		7 Shaik Farzuab Musakkir	Musakti
33	16071473431	8 Syed Imran Ahmed	Aussip.
/			

INCHARGE

HOD EFFDepartment
Head Person of EFF
Department of EFF
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Abids, Hyderabad-500 001.

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 Gajawada Sai Suraj

Branch, Participated in Certification Courses Apail 2017.

Bearing R.No: 160714784014

on 3nd April - 7th April

of I Semester EEE

during___

in Collaboration with Electro Motion Technologies

Director



Principal