



MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY

Recognized by AICTE, New Delhi::Affiliated to JNTUA, Ananthapuramu

Melumoi Cross, Palamaner, Chittoor(Dist.) – 517408.



ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

Palamaner

Date :15-06-2017

To
The Principal,
MTIET,
Palamaner.

SUB: II B.TECH - EEE - Organizing the Value added course on PLC– Req - Reg.

With the subject cited above, to enhance the technical skill and enrich the industry needs for the students the department is kindly bring to your kind notice to conduct the value added course on “**PROGRAMMABLE LOGIC CONTROLLER**” for the II B.Tech students during the period of inter semester break that is from 25-06-2017 to 30-06-2017. In this connection the undersigned is requesting to grant the permission to organize the mentioned course for the second year students.

Please consider with prior hierarchy.


Thanking you,

Copy to:

The II B.Tech Class room

The Dept. Notice board

Dept. file


HOD
15/6/2017
HEAD OF THE DEPT
Electrical & Electronic Eng
mother theresa inst of Engg & Tech
Palamaner-517408



ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

* * * * *

Ref.: MTIET/EEE/CIR/VAC-01

Palamaner

Date:18-06-2017

CIRCULAR

This is here by informed to the II B.Tech students that the Department is very glad to organize the value added course to fill the academic and industry gap on “**PROGRAMMABLE LOGIC CONTROLLER** “ during the period of inter semester break that is from 25-06-2017 to 30-06-2017. So all the interested students should register their names through the Department coordinator.

Thanking you

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MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY

MELUMOI POST, PALAMANER-517408

[COLLEGE CODE :: HR]



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE - PLC

PROGRAMME SYLLABUS :: 36Hrs

II B.Tech Academic Year 2017-2018

- Unit 1:** 6 hrs
Introduction to IOT, PLC Wiring, Introduction to PLC Trainer Device.
- Unit 2:** 6 hrs
Introduction to PLC Software, Fundamental Commands of PLC, How To Program a PLC – Basic Level 1, How To Program a PLC – Basic Level 2.
- Unit 3:** 6 hrs
How To Program a PLC – Basic Level 3, How To Program a PLC – Basic Level 4, How To Program a PLC – Basic Level 5, How To Program a PLC – Basic Level 6.
- Unit 4 :** 6 hrs
Introduction to Relays and Industrial Control, Number Systems, Relay Coils to Bits in Memory, Evolution of the Control System.
- Unit 5:** 6 hrs
Computer Control, I/O Scan, Saga of Pencil and the Paychecks, PLC Hardware, the Original Rack of Memory PLC2 PLC5.
- Unit 6:** 6 hrs
Memory Mapping RSLogix500 SLC500 Micrologix, I/O Structures RSLogix500 SLC500 Micrologix, IO and the Memory, RSLogix500 SLC500 Micrologix, Data Files vs Program Files – Sinking Sourcing.

M. S. S. S.
CO-ORDINATOR 18/6/2017

J. S. S. S.
HOD
18/6/2017
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ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

VALUE ADDED COURSE:: PLC

STUDENTS REGISTRATION FORM::

II B.Tech Academic Year 2017-2018

S.NO.	REGD. NO.	NAME OF THE STUDENT	SIGNATURE
1	16HR1A0201	ALLA DIVYA SREE	Divya sree
2	16HR1A0202	AMBURI RAMYA	ramya
3	16HR1A0203	APPIREDDIGARI RAJASEKHAR REDDY	Rajasekhara Reddy
4	16HR1A0204	BANDREVULA JANARDHAN	Janardhan
5	16HR1A0205	BAYUMAUDI SANDHYA	Sandhya
6	16HR1A0206	BHOGAM ANUSHA	B. Anusha
7	16HR1A0207	BOORUSU CHARAN KUMAR	Charan reddy
8	16HR1A0209	CHIRUTHANURU NIKHIL BHARADWAZ	Nikhil
9	16HR1A0210	CHITIMIREDDIGARI ABHISNEHA	Abhisneha
10	16HR1A0211	DASANI SAI KARTHIK REDDY	Reddy
11	16HR1A0212	DHARA RAVIGARI SURYA KIRAN	Surya
12	16HR1A0213	G MEGHAMALA	Meghamala
13	16HR1A0214	G SASI KUMAR	Sasi Kumar
14	16HR1A0215	G VAMSIKRISHNA	Vamsi Krishna
15	16HR1A0216	KANNAREDDIGARI VENKATA LAKSHMI	venkata lakshmi
16	16HR1A0217	KOLAR R KUSUMA	Kusuma
17	16HR1A0218	KONDAGALLA RAJAGOPAL	Raj
18	16HR1A0219	KUMMAROLLA MADHAVI	nadhemu
19	16HR1A0220	KUNA R SURYA	Surya
20	16HR1A0221	M MOUNIKA	Mounika
21	16HR1A0222	M R MOUNIKA	M. R. Mounika
22	16HR1A0223	MANIKESAVULU MOUNIKA	mounika
23	16HR1A0224	MATHALAM SWATHI	Swathi
24	16HR1A0225	MUTYALA REDDY PAVAN	Pavan
25	16HR1A0226	N BHARATHI	Bharathi
26	16HR1A0227	NAKKALA SATISH KUMAR REDDY	Satish
27	16HR1A0228	NANJEGOUNIVARI SILPA	silpa

28	16HR1A0229	NUTHANAKALVA SAI SUSMITHA	Sai Susmitha
29	16HR1A0230	P JEEVITHA	Jeevitha
30	16HR1A0231	PAGADALA JAYARAM	Jayaram
31	16HR1A0232	PARAMATA MANJULA	Manjula
32	16HR1A0233	PATHRIVALLA NAVEEN	Naveen
33	16HR1A0234	RAMAIAHGARI MADHAVA REDDY	Madhava reddy
34	16HR1A0235	RANGASWAMY AISWARYA	R. Aiswarya
35	16HR1A0236	S A NEELUFAR	Neelufa
36	16HR1A0237	S BINDHU	Bindu
37	16HR1A0238	S NITHISH CHANDRA	Nithish chandra
38	16HR1A0239	S SALEEM JAVEED	Javeed
39	16HR1A0240	SANGISETTY SAI VIKAS	Vikas
40	16HR1A0241	SHAIK MOHAMMED ALI	Ali
41	16HR1A0242	SUBBARAYAPPAGARI BHAVYASREE	Bhavyasree
42	16HR1A0243	THIMMIREDDIGARI SIREESHA	Sireesha
43	16HR1A0244	THOTI MOHAN	Mohan
44	16HR1A0245	THOTI VINOD BABU	Vinod babu
45	16HR1A0246	TIRUPATHI SREELEKHA	Sreedathu
46	16HR1A0247	VEERA RAGHAVULA NAVEEN KUMAR	Kumar
47	16HR1A0248	Y SARATH KUMAR REDDY	Sarath Kumar reddy
48	17HR5A0201	ANAGONDI RAJESH	Rajesh
49	17HR5A0202	B G MADHAVI	Madhavi
50	17HR5A0203	BELUDURI VIDYANANDA	Vidyananda
51	17HR5A0204	CHITTIMOORI PURUSHOTHAM	Purushotham
52	17HR5A0205	G NAGARAJA	Nagaraja
53	17HR5A0206	G PALLAVI	Pallavi
54	17HR5A0207	M SHAFFI	Shaffi
55	17HR5A0208	MUDEA REKHA	Rekha
56	17HR5A0209	NULIVEEDU SANDEEP KUMAR	Kumar
57	17HR5A0210	PEDDAKOTLA MURALI	Murali
58	17HR5A0211	REDDIVARI NAVEEN REDDY	Naveen
59	17HR5A0212	T ESWARAI AH	Eswarai
60	17HR5A0213	VADDI MALLEESWARI	Malleeswari

N. S. Sudaba
CO-ORDINATOR 30/6/2017

HOD
30/6/17
HEAD OF THE DEPT
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE-PLC

PROGRAMME SCHEDULE ::

II B.Tech Academic Year 2017-2018

S.NO.	DAY(S)	DATE	TIME	TOPIC(S)	EXPERT DETAILS
1	DAY 1	25-06-2017	9.30-10.30	Inauguration by Principal	D V Kiran
2			11.0-12.30	Introduction to PLC	
3			1.20-2.50	PLC Wiring	
4			3.0-4.30	Introduction to PLC Trainer Device	
5	DAY 2	26-06-2017	9.30-10.30	Introduction to PLC Software	D V Kiran
6			11.0-12.30	Fundamental Commands of PLC	
7			1.20-2.50	How To Program a PLC – Basic Level 1	
8			3.0-4.30	How To Program a PLC – Basic Level 2	
9	DAY 3	27-06-2017	9.30-10.30	How To Program a PLC – Basic Level 3	D V Kiran
10			11.0-12.30	How To Program a PLC – Basic Level 4	
11			1.20-2.50	How To Program a PLC – Basic Level 5	
12			3.0-4.30	How To Program a PLC – Basic Level 6	
13	DAY 4	28-06-2017	9.30-10.30	Introduction to Relays and Industrial Control	N Sudhakar
14			11.0-12.30	Number Systems	
15			1.20-2.50	Relay Coils to Bits in Memory	
16			3.0-4.30	Evolution of the Control System	
17	DAY 5	29-06-2017	9.30-10.30	Computer Control	N Sudhakar
18			11.0-12.30	I/O Scan, Saga of Pencil and the Paychecks	
19			1.20-2.50	PLC Hardware	
20			3.0-4.30	The Original Rack of Memory PLC2 PLC5	
23	DAY 6	30-06-2017	9.30-10.30	Memory Mapping RSLogix500 SLC500 Micrologix	N Sudhakar
24			11.0-12.30	I/O Structures RSLogix500 SLC500 Micrologix	
25			1.20-2.50	IO and the Memory, RSLogix500 SLC500 Micrologix	
26			3.0-4.30	Data Files vs Program Files – Sinking Sourcing	

Duration: 36 hrs

N. Sudhakar
CO-ORDINATOR 30/6/2017

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Palamaner-517408

57	17HR5A0210	PEDDAKOTLA MURALI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
58	17HR5A0211	REDDIVARI NAVEEN REDDY	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
59	17HR5A0212	T ESWARAI AH	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
60	17HR5A0213	VADDI MALLEESWARI	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓

N. S. Subrahmanyam
CO-ORDINATOR 30/6/2017

J
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30/6/2017
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ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT
VALUE ADDED COURSE :: PLC
COURSE REPORT

II B.Tech Academic Year 2017-2018

INTRODUCTION & OBJECTIVES

As the Department of EEE conducting the Six day Value added course on Programmable logical controller (PLC) organized for students of II Year EEE from 25-06-2017 to 30-06-2017, to improve ongoing academic curriculum and updating of the student skills.

For the course review process, course coordinators are asked to prepare a short course report and submitted this report to the Curriculum Committee. The Curriculum Committee reviewed reports, and requested further information from the course coordinator. This process is designed to improve ongoing academic curriculum and updating of the student skills, and to provide support to course coordinators in planning, revising, and implementing courses.

All the students of II year EEE with total registered **students of 60** are actively presented and participated to value added course on PLC for 6 days to enhance their technical skills. Following list of topics are presented and explained to the students by the expert members selected by the selection committee. **D V Kiran** and **N Sudhakar** are the expert member for the successful completion of **value added course on PLC** with the feedback analysis of **83.73%** for the academic year **2017-2018**.

The total program is successfully completed with the cooperation of each and every faculty member of the department and student participants with the preferred course schedule.

OUTCOME OF THE VALUE ADDED COURSE:

The conducted Value added course ensured knowledge enhancement in the area of Programmable logical control (PLC), in its quality and aimed for the development of skills towards academics and placements / employment.



Students @ PLC course

M. Sudeep
CO-ORDINATOR 30/6/20+



ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT
VALUE ADDED COURSE :: PLC TEST

IIB.TechAcademic Year 2017-2018
(from 25-06-2017 to 30-06-2017 : 36Hrs)

1.The acronym PLC stands for:

- (A) Pressure Load Control1
- (B) Programmable Logic Controller
- (C) Pneumatic Logic Capstan
- (D) PID Loop Controller
- (E) Pressure Loss Chamber

2.Ladder logic programming consists primarily of:

- (A) Virtual relay contacts and coils
- (B) Logic gate symbols with connecting lines
- (C) Function blocks with connecting lines
- (D) Text-based code
- (E) Hieroglyphics

3.In a PLC, the scan time refers to the amount of time in which

- (A) the technician enters the program
- (B) timers and counters are indexed by
- (C) one "rung" of ladder logic takes to complete
- (D) the entire program takes to execute
- (E) transmitted data communications must finish

4.The difference between online and offline PLC programming is ...

- (A) whether the PLC is running or stopped
- (B) whether the programming PC has internet connectivity
- (C) the type of programming cable used
- (D) where the edited program resides
- (E) the type of programmer used

5.In PLC programming, a retentive function is one that:

- (A) Defaults to the "on" state
- (B) Comes last in the program
- (C) Defaults to the "off" state
- (D) Cannot be edited or deleted
- (E) Is not reset after a power cycle

6.What is the largest integer number that a PLC counter function can reach if it uses a 16 bit register?

- (A) 32,768
- (B) 65,535
- (C) 65,536
- (D) 65,537
- (E) 32,767

7.A good application for a timed interrupt in a PLC program would be:

- (A) A communications function block
- (B) A PID function block

d. Digital input

14. In a PLC "I" is used for output and "Q" is used for input

- a. True
- b. False
- c. None of the above

15. PLC stands for programmable logic controller

- a. True
- b. False
- c. None of the above

16. To increase the number of inputs and outputs of the PLC, one can use expansion modules.

- a. True
- b. False
- c. None of the above

17. An example of discrete (digital) control is:

- a. Varying the volume of a music system
- b. Turning a lamp ON or OFF
- c. Varying the brightness of a lamp
- d. Controlling the speed of a fan

18. A solenoid is an example of an output device.

- a. True
- b. False
- c. None of the above

19. Which of the following statements is correct?

- a) Ladder logic is a PLC graphical programming technique introduced in the last 10 years.
- b) A ladder logic program is hard to analyze because it is totally different when compared with the equivalent relay logic solution.
- c) The number of ladder logic virtual relays and input and output instructions is limited only by memory size.
- d) The number of contacts for a mechanical relay is limited to number of coils on the relay.

20. Which of the following statements is NOT correct?

- a) The status of each input can be checked from one location and outputs can be forced on and off.
- b) All symbols in the RLL represent actual components and contacts present in the control system.
- c) PLCs are not as reliable as electromechanical relays in RLL.
- d) Input (-| |-) and output (- () -) instruction symbols in the ladder logic represent only data values stored in PLC memory.

- (C) A math function block
- (D) A motor start/stop rung
- (E) A "watchdog" timer

8. The PLC was invented by.

- a) Bill Gates
- b) Dick Morley
- c) Bill Landis
- d) Tod Cunningham

9. The first company to build PLCs was .

- a) General Motors
- b) Allen Bradley
- c) Square D
- d) Modicon

10. The part that monitors the inputs and makes decisions in a PLC is the CPU.

- a. True
- b. False
- c. None of the above

11. One of the following is an input device

- a. Motor
- b. Light
- c. Valve
- d. Sensor

12. Which one of the following is not a PLC manufacturer

- a. Siemens
- b. Mitsubishi
- c. Microsoft
- d. ABB

13. Solenoids, lamps, motors are connected to:

- a. Analog output
- b. Digital output
- c. Analog input



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ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

VALUE ADDED COURSE:: PLC

STUDENTS EVALUATION FORM::

II B.Tech Academic Year 2017-2018

S.NO.	REGD. NO.	NAME OF THE STUDENT	GRADE
1	16HR1A0201	ALLA DIVYA SREE	A
2	16HR1A0202	AMBURI RAMYA	A
3	16HR1A0203	APPIREDDIGARI RAJASEKHAR REDDY	B
4	16HR1A0204	BANDREVULA JANARDHAN	B
5	16HR1A0205	BAYUMAUDI SANDHYA	C
6	16HR1A0206	BHOGAM ANUSHA	A
7	16HR1A0207	BOORUSU CHARAN KUMAR	B
8	16HR1A0209	CHIRUTHANURU NIKHIL BHARADWAZ	B
9	16HR1A0210	CHITIMIREDDIGARI ABHISNEHA	A
10	16HR1A0211	DASANI SAI KARTHIK REDDY	A
11	16HR1A0212	DHARA RAVIGARI SURYA KIRAN	A
12	16HR1A0213	G MEGHAMALA	B
13	16HR1A0214	G SASI KUMAR	B
14	16HR1A0215	G VAMSIKRISHNA	C
15	16HR1A0216	KANNAREDDIGARI VENKATA LAKSHMI	B
16	16HR1A0217	KOLAR R KUSUMA	B
17	16HR1A0218	KONDAGALLA RAJAGOPAL	A
18	16HR1A0219	KUMMAROLLA MADHAVI	A
19	16HR1A0220	KUNA R SURYA	B
20	16HR1A0221	M MOUNIKA	B
21	16HR1A0222	M R MOUNIKA	A
22	16HR1A0223	MANIKESAVULU MOUNIKA	A
23	16HR1A0224	MATHALAM SWATHI	B
24	16HR1A0225	MUTYALA REDDY PAVAN	B
25	16HR1A0226	N BHARATHI	A
26	16HR1A0227	NAKKALA SATISH KUMAR REDDY	A
27	16HR1A0228	NANJEGOUNIVARI SILPA	C
28	16HR1A0229	NUTHANAKALVA SAI SUSMITHA	B
29	16HR1A0230	P JEEVITHA	A

30	16HR1A0231	PAGADALA JAYARAM	A
31	16HR1A0232	PARAMATA MANJULA	A
32	16HR1A0233	PATHRIVALLA NAVEEN	A
33	16HR1A0234	RAMAIAHGARI MADHAVA REDDY	B
34	16HR1A0235	RANGASWAMY AISWARYA	B
35	16HR1A0236	S A NEELUFAR	B
36	16HR1A0237	S BINDHU	C
37	16HR1A0238	S NITHISH CHANDRA	B
38	16HR1A0239	S SALEEM JAVEED	A
39	16HR1A0240	SANGISETTY SAI VIKAS	A
40	16HR1A0241	SHAIK MOHAMMED ALI	B
41	16HR1A0242	SUBBARAYAPPAGARI BHAVYASREE	A
42	16HR1A0243	THIMMIREDDIGARI SIREESHA	B
43	16HR1A0244	THOTI MOHAN	B
44	16HR1A0245	THOTI VINOD BABU	A
45	16HR1A0246	TIRUPATHI SREELEKHA	A
46	16HR1A0247	VEERA RAGHAVULA NAVEEN KUMAR	A
47	16HR1A0248	Y SARATH KUMAR REDDY	B
48	17HR5A0201	ANAGONDI RAJESH	B
49	17HR5A0202	B G MADHAVI	C
50	17HR5A0203	BELUDURI VIDYANANDA	A
51	17HR5A0204	CHITTIMOORI PURUSHOTHAM	B
52	17HR5A0205	G NAGARAJA	A
53	17HR5A0206	G PALLAVI	A
54	17HR5A0207	M SHAFFI	B
55	17HR5A0208	MUDEA REKHA	A
56	17HR5A0209	NULIVEEDU SANDEEP KUMAR	B
57	17HR5A0210	PEDDAKOTLA MURALI	B
58	17HR5A0211	REDDIVARI NAVEEN REDDY	A
59	17HR5A0212	T ESWARAI AH	A
60	17HR5A0213	VADDI MALLEESWARI	A

Grade A>75%, B>65%, C>50%, D-FAIL

M. S. Subrahmanyam
CO-ORDINATOR 30/6/2017

J. J. J.
HOD
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ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT
VALUE ADDED COURSE:: PLC

II B.TECH

AY 2017-2018(25-06-2017 to 30-06-2017)

Feedback Analysis

Number of students submitted Feedback Forms: 60

Total number of Points: 300

S.No	Description	Excellent	Very Good	Good	Average	%
1	The instructor was well prepared for the class	26	24	6	4	84.00
2	The instructor showed an interest in helping students learn	25	23	10	2	83.67
3	The lectures and tests complemented each other	23	27	7	3	83.33
4	The course was organized in a manner that helped me understand the underlying concepts	21	29	8	2	83.00
5	I would highly recommend this course to other students	25	26	7	2	84.67
Total(Average)						83.73%

Total Points >=90 ☺ Excellent (5 Points)

Total Points >=80 ☺ Very Good (4 Points)

Total Points >=70 ☺ Good (3 Points)

Total Points >=50 ☺ Average (2 Points)

Feedback analysis report: The Value added Course was very good based on the feedback percentage that was given by the students.


CO-ORDINATOR


HOD/EEE
HEAD OF THE DEPT
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Palamaner-517408



ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT
VALUE ADDED COURSE::PLC

Feedback Form

II B.Tech Academic Year 2017-2018

1. The instructor was well prepared for the class

Excellent ✓	Very Good	Good	Average
-------------	-----------	------	---------

2. The instructor showed an interest in helping students learn.

Excellent ✓	Very Good	Good	Average
-------------	-----------	------	---------

3. The lectures and tests complemented each other.

Excellent	Very Good ✓	Good	Average
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4. The course was organized in a manner that helped me understand the underlying concepts.

Excellent ✓	Very Good	Good	Average
-------------	-----------	------	---------

5. I would highly recommend this course to other students

Excellent	Very Good ✓	Good	Average
-----------	-------------	------	---------

K. Prema 30/6/2017
Signature of the participant



ELECTRICAL AND ELECTRONICS ENGINEERING DEPARTMENT

VALUE ADDED COURSE::PLC

Feedback Form

II B.Tech Academic Year 2017-2018

1. The instructor was well prepared for the class

Excellent ✓	Very Good	Good	Average
----------------	-----------	------	---------

2. The instructor showed an interest in helping students learn.

Excellent	Very Good ✓	Good	Average
-----------	----------------	------	---------

3. The lectures and tests complemented each other.

Excellent ✓	Very Good	Good	Average
----------------	-----------	------	---------

4. The course was organized in a manner that helped me understand the underlying concepts.

Excellent ✓	Very Good	Good	Average
----------------	-----------	------	---------

5. I would highly recommend this course to other students

Excellent	Very Good ✓	Good	Average
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B. Indrajith 30/6/2017
Signature of the participant

Mother Theresa Institute of Engineering and Technology



(Approved by AICTE, New Delhi and Affiliated to JNTUA, Anantapuramu)

Melumoi (Post), Palamaner-517408, Chittoor Dist., A.P.

Website: www.mtitech.edu.in email: mtieat@gmail.com ☎ 08579 268589



This is to certify that Mr./Ms. S. Nithyesh chandra Reg.No. 16HR1A0238

Department of EEE has successfully completed Value added course on "PLC", Conducted by the department of Electrical and Electronics Engineering, MTIET, Palamaner. From 25-06-2018 to 30-06-2018 and has secured A grade.


CO-ORDINATOR


HOD


PRINCIPAL

Mother Theresa Institute of Engineering and Technology



(Approved by AICTE, New Delhi and Affiliated to JNTUA, Anantapuramu)

Melumoi (Post), Palamaner-517408, Chittoor Dist., A.P.

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This is to certify that Mr./Ms. A.Divyaree Reg.No. 14THRI402201

Department of EEE has successfully completed Value added course on "PLC", Conducted by the department of Electrical and Electronics Engineering, MTIET, Palamaner. From 25-06-2018 to 30-06-2018 and has secured A grade.

M. Sudaban
CO-ORDINATOR


HOD

M. Sudaban
PRINCIPAL