



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE DETAIL

ACADEMIC YEAR-2019-20 (EVEN)

1	Course Name	Programmable Logic Controllers
2	Course offered by	CDCE School of Automation and Robotics, Chennai.
3	Co-Ordinator	Mr. P. Veerakumar
4	Instructor	Mr. Rajasekar Jayakumar, CDCE School of Automation
5	Class	BE-EEE(Marine)
6	Number of Students per batch	47
7	Duration	30hrs
8	No. of Hrs /Week	3hrs/Week
9	Prerequisite	Basic Electrical, Electronics Engineering Knowledge
10	About the Course	Impart knowledge about PLC design
11	Course Objective	To explain various PLC
12	Course Outcome	Able to design PLC with recent advancement
13	Topics Covered	Syllabus Attached
14	Learning References	List of reference attached
15	Assessment Method	Hands on Training
16	Attendance Sheet	Copies Attached
17	Photograph	Copies Attached
18	Certificate Copies	Copies Attached
19	Feedback About The Course	Copies Attached
20	Action Taken Report	Copies Attached



Dr. V. Karthikeyan, Prof-EEE <karthikeyan.v@ametuniv.ac.in>

Requesting to Conduct Value Added Training Program- Reg

Dr. V. Karthikeyan, Prof-EEE <karthikeyan.v@ametuniv.ac.in>
To: "CDCE Automation," <rajasekar.j@cdceautomation.com>

Wed, Jan 4, 2020 at 12.24 PM

Dear Dr. Karthikeyan

We are happy to accept your invitation for conducting a value added training program in association with your reputed institution. please find the proposal and course details for the same.

On Wed, Jan 4, 2020 at 12.24 PM Dr. V. Karthikeyan, Prof-EEE <karthikeyan.v@ametuniv.ac.in> wrote:

----- Forwarded message -----

From: Dr. V. Karthikeyan, Prof-EEE <karthikeyan.v@ametuniv.ac.in>
Date: Wed, Jan 2, 2020 at 5:56 PM
Subject: Requesting to Conduct Value Added Training Program- Reg
To: CDCE Automation <rajasekar.j@cdceautomation.com>

Dear Sir,
Greetings from AMET!!!!

We are planning to conduct a Value Added Training Program in the area of PLC in collaboration with your reputed organization. In this regard, we request you to send the proposal and course details for the same.

we are looking forward to hearing from you.....

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Dr. V. Karthikeyan, M.E, Ph.D, SMIEEEE, LMISTE,
Professor,
Department of Electrical & Electronics Engineering,
AMET Deemed to be University,
135, East Coast Road, Kanathur, Chennai-603112.
Cell : 9840633024

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Proposal.docx
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PROGRAM	B.E-Electrical and Electronics Engineering-Marine				
Audit Course	Course Name	L	T	P	C
	Introduction to PLC Programming	0	0	2	0
Year and Semester	III Year & VI Semester	Contact Hours Per Week 2 Hrs			
Prerequisite course	Nil				
Course Objectives	1.To familiarise with Programmable Logic Controller 2. To learn PLC ladder logic program				
Course Outcomes	The Students will be able to 1. Construct PLC input output wiring connections 2. Understand PLC ladder logic program 3. Construct ladder diagram for ON/OFF control of a device using PLC 4. Design Starters for Induction motor start stop using Ladder diagram 5. Illustrate application of timers and counters in PLC 6. Utilize the functions available in PLC to write a simple program				
List of Experiments					
1. PLC input module and output module terminal wiring connections 2. Configuration of PLC/Familiarisation of ladder diagram with Input/output address and Memory address 3. Ladder logic program for Buzzer ON/OFF control 4. Design of logic gates using ladder diagram (i)AND (ii) OR (iii) NAND (iv) NOR (v) XOR 5. Latching circuit design using Ladder diagram for push button operation 6. Ladder logic program for DC Motor ON/OFF Control 7. Ladder logic program for Forward and Reverse control of DC Motor 8. Ladder logic program using ON / OFF delay Timer for DC motor control 9. Ladder logic program for star-delta starter operation 10. Familiarisation with Counter instructions					
Total: 30 hours					



CDCE GROUP

No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54.
Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

Navin Anand

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Programmable Logic Controllers" during the period January'20 - May'20 (80 Hours)



J. Rajasekar

Mr. Rajasekar Jayakumar

Director-CDCE Group



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CERTIFICATE OF COMPLETION

This certifies that

B. Nirmal Kumar

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Programmable Logic Controllers" during the period January'20 - May'20 (80 Hours)



J. Rajan

Mr. Rajasekar Jayakumar

Director-CDCE Group



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CERTIFICATE OF COMPLETION

This certifies that

P. Naveen

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Programmable Logic Controllers" during the period January'20 - May'20 (80 Hours)



J. Rajasekar

Mr. Rajasekar Jayakumar

Director-CDCE Group



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CERTIFICATE OF COMPLETION

This certifies that

M. Pradeep

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Programmable Logic Controllers" during the period January'20 - May'20 (80 Hours)



J. Rajan

Mr. Rajasekar Jayakumar

Director-CDCE Group



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