

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE DETAIL

ACADEMIC YEAR-2018-19

1	Course Name	On board ship Automation								
2	Course offered by	CDCE School of Automation and Robotics, Chennai.								
3	Co-Ordinator	Dr.S.V Saravanan								
4	Instructor	Mr.Rajasekar Jayakumar, CDCE School of Automation								
5	Course	-								
6	Class	BE-EEE(Marine)								
7	Number of Students per batch	24								
8	Duration	80hrs								
9	No. of Hrs /Week	6 hrs/Week								
10	Prerequisite	Basics of Electrical and Electronics Engineering								
11	About the Course	PLC and SCADA training to the students to familiarize with onboard ship automation								
12	Course Objective	To impart the knowledge of on board ship Automation								
13	Course Outcome	Able to apply PLC programming, HMI operation and SCADA								
14	Topics Covered	Syllabus Attached								
15	Learning References	List of reference attached								
16	Assessment Method	Hands on Training								
17	Attendance Sheet	Copies Attached								
18	Photograph	Copies Attached								
19	Certificate Copies	Copies Attached								
20	Feedback About The Course	Copies Attached								
21	Action Taken Report	Copies Attached								

ORGANIZING COMMITTEE

Convener:

Dr.T. Sasilatha,

Professor and Dean, Dept of EEE & Dean Academic

Program Coordinator:

Dr. S.V. Saravanan, Assistant Professor

E-mail ID: saravanan.sv@ametuniv.ac.in

COURSE STRUCTURE:

The value added course will be more added advantage with regular academic subjects for EEE student. Students of third year EEE benefited through this training.

Training Modules	Total No. of Students	Duration (Hrs)
Module 1 to Module 6	43	80
Syllabu	Syllabus Structure	
Description	Theory	Practicals
Basics of industrial automation, sensors and mechatronic	3 Hrs	22
Switch gears	3 Hrs	3 Hrs
Electrical and automation panel wirings	3 Hrs	3 Hrs
Sensors and transducers	3 Hrs	6 Hrs
Instrumentations	3 Hrs	3 Hrs
Programmable logic controllers	10 Hrs	20 Hrs
Human machine interface	3 Hrs	6 Hrs
Smart positioning using servo motors, stepper motors and VFD's	3 Hrs	6 Hrs
Barcode automation system	3 Hrs	3 Hrs

ABOUT THE UNIVERSITY

AMET University has got a unique distinction of being the first maritime university established in India and in maritime education as well as offering consultancy service to maritime sector for the past seven years contributing much to produce human resources to the shipping industry in India and aboard. Invariably at least five students cadets of AMET proudly occupy exalted positions like chief engineers, captains and other key posts in every ship sailing in the international waters. Further AMET proudly holds the prestigious award of "A1 outstanding grade" conferred by the directorate general of shipping, Ministry training offering academic, research, of shipping, Government of India.

ABOUT THE DEPARTMENT

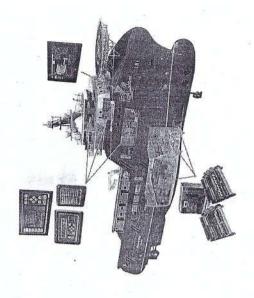
Electronics Engineering is established in the year 2008 with the objective of imparting quality education of international standards and to produce highly innovative Electrical and Electronics Engineers capable of solving global maritime challenges. The Department offers 4 years U.G program in EEE and 2 years P.G program in Power Systems and as well Department of Electrical and core areas in interdisciplinary domains. Doctoral programs

laboratories, smart class rooms and well stacked library to The department is committed to community development and conducts villagers around the university. The department is proud of regular extension activities to benefit the local and needy its legacy of Alumni who occupies key positions in world The department houses state-of the class Maritime/Non-Maritime sectors impart teaching and research.





VALUE ADDED TRAINING PROGRAM ON-BOARD SHIP AUTOMATION



Organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

In association with





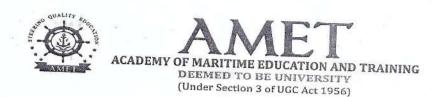


MICRO, SWALL & MEDUM ENTERPRISES मूस्मि, लंडु एवं मध्यम उद्यम OUR STRENGTH • इमसे शक्ति

Ministry of MSME, Govt. of India

Certification by MSME CDCE Automation

Govt. of India



REPORT

on

VALUE ADDED TRAINING PROGRAM

"ON-BOARD SHIP AUTOMATION"

Organized By
Department of Electrical and Electronics Engineering

In Collaboration with





Ministry of MSME, Govt. of India

CDCE Automation

Certification by MSME

Govt. of India

Date: JAN 2018- OCT 2018

Venue:

AMET Deemed to be University

Convener

Dr. T. Sasilatha

Professor and Dean

Department of Electrical and Electronics Engineering

Co-Ordinators Dr. S. V. Saravanan, Professor / EEE The following students attended the training programme.

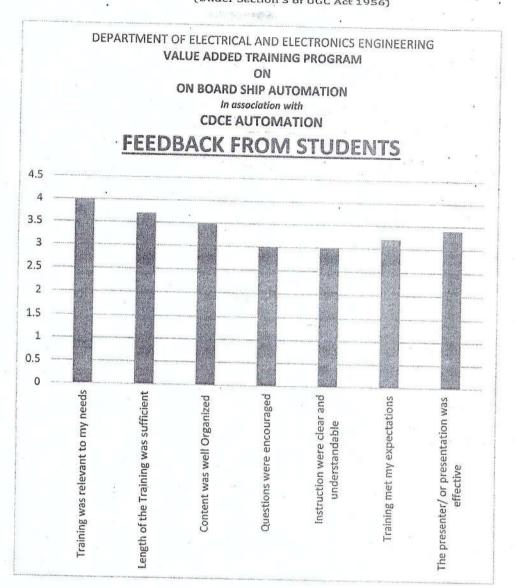
	Сописа	D 22		31	UDENT LIST	_					
-	Course :	B.E	Electri	cal	& Electronics Engineering-Marine	_					
-			Batch:	BE	(EEEM)- Third Year	1					
S.I	No Regis Numb	ter	Roll Numb	1	Student Name						
1	1,122,00	001	EE29		ABIRAJ.B						
2	7,122100	002	EE298	314	AVINASH VIJAY						
3	AEE160	03	EE299	_	AZARUTHEEN S						
4	. AEE160	04	EE300	-	BEER MOHAMED UVAIZ. N						
5	AEE160	05	EE301	1	DHARUN.S						
6	AEE1600	06	EE302	-	DINESH KUMAR.M						
7	AEE1600	7	EE303		GANESHBABU K						
8	AEE1600	8	EE304	-	GOKULAKRISHNAN.B						
9	AEE1600	9	EE305	+	IMMANVEL PETER	Š					
10	AEE1601	5 5 5 LU U LU LU LU LU LU	EE306		JOEL ROBINSON						
11	AEE1601	1	EE307		KARAN R K						
12	AEE1601	2	EE308	_	(ARTHI. P						
13	AEE16013	3	EE309	-	(RISHNARAJ.S						
14	AEE16014		EE310		MÓHAN RAJ R						
15	AEE16015	-	EE311		IAVEEN RAJ. R						
16	AEE16016		EE312		UNNOOSE BENNY						
17	AEE16019	1	E315		AMUEL MATHEW.G						
18	AEE16020	E	E316		VAHASISH SAHA						
19	AEE16022	E	E318		JRIYA R						
20	AEE16023		EE319		VENKATESH S						
21	AEE16024	E	EE320		VIGNESH.B						
2	AEE16026		323		EERAG SREEKUMAR						
3	AEE16027	EES	324		AVEEN.D						

IV Year EEE

S. No	Roll No	64.1
1	EE267	AKSHAI Student Name
2	EE268	ALLWIN RENOLD.S
3	EE269	ANANTHAN UNNI
4	EE270	BASKAR. M
5	EE273	DIVINS SOBI S
6	EE274	INBARAJI
7	EE275	JAYA KRISHNAN K
8	EE276	JAYAKUMAR M
9	EE278	JOSEPH MELVIN B
10	EE279	MANIKANDAN N
11	EE280	NANDHAKUMAR G



ACADEMY OF MARITIME EDUCATION AND TRAINING DEEMED TO BE UNIVERSITY (Under Section 3 of UGC Act 1956)



Action Taken: Found Satisfactory



CDCE SCHOOL OF AUTOMATION AND ROBOTICS



CDCE/AMET/EEEM/ATTD/2018 - 2019

REV-1

				AN	ET U	INIV.	ERSI	TY-	ATT	END!	ANCE	DE	TAIL	S							
.No	Year	Name	1/2/18	30/280	4/9/12	28/8			-	2012/18		-	17/1/15							Γ	T
1	* II	M DINESHKUMAR	×	ж	×		,	Χ.	×	×	PA	A		-		-	 -		-	-	1
2	11	SMAHASISH SAHA	×	×	×	Y	.,	×	~	-	×		A	-			 				+
3	- 11	ANITOSH MONDAL	×	×	~	×	×		A	1	7	X	X				-				+
+	n	S. VENKATESH	×	*	×	×	·P	B	A	×	4	×	X		-	-		-	- 72		⊢
5	n	S. DHARUN	*	×	×	×	×	×	11	A	-	-	X		-			_			+
6	11 *	M. S. VAITHIYANATHAN	- x	×	*	X	X-	×	A-	Α	A	×	A	-	-						_
7	н	R. NAVEEN RAJ	×	R	×	x	×	×	A X	X	T	A	A		-						_
8	11	R. MOHAN RAJ	×	6	×	×	~	7	-	-	-	X	×		-	_	-				_
9	11 -	S. KRISHNA RAJ	×	*	×	×	-	1	×	×	X	X	X		_						_
10	tt	K. GANESH BABU	×	×	*	_	X	X	A	Х.	A	A	A	-							
11	11 -	R. SURYA	. ×	*	×		^	X	X	1	X	X	X								
12	41	S. AZARUTHEEN	1	*	*	-X-	A	A	A	A	4	A									
13	117	SREE KUTTAN, M	k	8			X	×	A	*_	F	K	X								
14	11.	IMMANUEL PETER	*	×	× '	*	F	X	A	×	X	A	A								
13	11.4	ABIRAL B	A.	0		X	A	×	A	A	Dr.	1)	A								
16	II	D. PRAVEEN	100	x	×	-	A	A	A	1	2	A					14	1			
17	11 -	VIGNESH, R.	4	r	×	1	Fi	×	A	A	f,	X	1							-	-
18	11 -	P. KARTIII	x	7	×	×	P	1	A	A	P	A	A						0.000		
19	11 -	B. GOKULAKEISHNAN	A	A	×	A	A	×	12	A	B	A									
20	11 -	A. SURYA	1	×	× -	- Y	-	6	A.	A	FT	A	-								
21	11 .	PUNNOGSE BERRY	A	A	X	A.	P	X	A	×	P	A	1				70.100				1
22	11 .	V. SHRIRAM SURATH KUMAR	A		X	-	A	4	A	A	A	A									1
13	11 .	N. BEER MOHAMED UVAIZ	A	X	×	X	X	×	A	A	A	A									1
-		June OTAL	Tu.		1 "	X	A	·y	X	×	B	A				1	1		-	-	+



एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. L. SOUNDARA PANDIYAN AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. K. VIGNESH
AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA



R.PANNEÉŘSELVAM



एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. L. AJITH KUMAR AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. S. ALLWIN RENOLD
AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA



R.PANNEÉRSELVAM



एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. GORAKAVI LAKSHMI PRASANNA KUMAR AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पञ

Certificate

This is to certify that

MR. M. BASKAR
AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Government of India Organization
भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. N.MANIKANDAN
AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Government of India Organization
भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. R.NAVIN KUMAR AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. M. JAYAKUMAR

AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA



R.PANNEÉRSELVAM



एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. A. SURYA KUMAR AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA



R.PANNEÉÉSELVAM



एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. E. RAJKUMAR

AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. G.NANDHAKUMAR
AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पञ

Certificate

This is to certify that

MR. B. JOSEPH MELVIN AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE : August 8, 2019

PLACE: AGRA





एम0एस0एंम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. K. JAYAKRISHNAN AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. S. YASHWANTH AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA



R.PANNEERSELVAM



एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. M. MATHAN DEEPU AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. S. DHARUN
AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पश

Certificate

This is to certify that

MR. R.MOHAN RAJ AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. SNAHASISH SAHA AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. D.PRAVEEN
AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE : August 8, 2019

PLACE: AGRA



R.PANNEERSELVAM



एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. S. AZARUTHEEN
AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA



R.PANNEÉRSELVAM



एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. S. VENKATESH AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. R. NAVEEN RAJ AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. K. GANESH BABU AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई0 - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. M. DINESH KUMAR AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. ANITOSH MONDAL

AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

PLACE: AGRA





एम0एस0एम0ई० - तकनीकी विकास केन्द्र, आगरा

Ministry of Micro, Small & Medium Enterprises सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Government of India Organization भारत सरकार की संस्था

प्रमाण पत्र

Certificate

This is to certify that

MR. A. SURYA AMET DEEMED TO BE UNIVERSITY

has successfully completed training

on

INDUSTRIAL AUTOMATION

from 21.02.2018 to 02.04.2018, 10 Days, 80 hours at Chennai

DATE: August 8, 2019

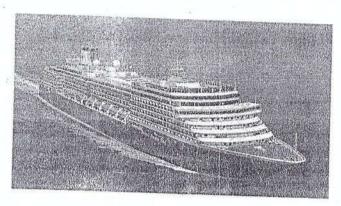
PLACE: AGRA

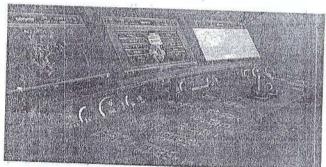


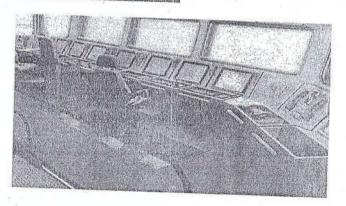


Department of Electrical and Electronics Engineering

Center of Excellence for On-Board Ship Automation
By
CDCE School of Automation and Robotics
(in association with MSME, Govt of India)







Academy of Maritime Education and Training

(Declared as Deemed to be University u/s 3 of UGC Act 1956)
135, East Coast Road, Kanathur - 603112, India
Email: office@ametuniv.ac.in / http://www.ametuniv.ac.in/Tel: 32577030 / 32577002

VISION:

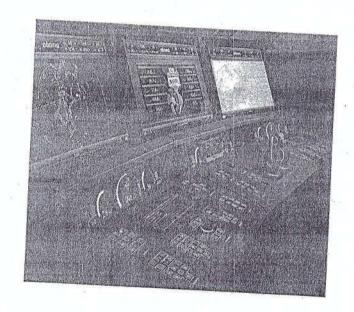
To become a world class research facility and skill development center for the On-board Ship Automation by CDCE School Of Automation a

nd Robotics in association with Ministry of Micro, Small and Medium Enterprises(MSME) Govt. of India, thereby catering to the needs of the ground minds to make vessel operations

MISSION:

- To educate the students with the state of art technologies to meet the growing challenges of the On-board Ship Automation.
- To provide technical skills and knowledge for their quality consultancy in the areas of On-board Ship Automation.

ON BOARD SHIP AUTOMATION:



Ships are now being equipped with increasingly complicated systems that are operated by fewer operators with limited training. Marine Ship Automation portfolio consists of applications that make vessel operations easier, safer and more efficient. Whether it is for basic monitoring and control or comprehensive integrated platform management, Marine Ship has the applications to fulfill all vessel automation needs. On board ship automation leads to the next level by adding smart applications like decision support, providing guidance in critical situations.

BENEFITS:

- Increased efficiency of all onboard processes
- Transparency for better decisions
- Scalability and viability for the future
- Cost-effectiveness and investment protection

OBJECTIVE OF THE CENTRE:

The Center has three principal objectives:



Innovation and Research

To perform research in the field of on board shipping and to develop new understanding and innovative products

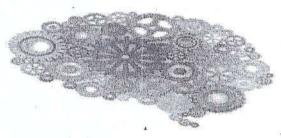


COURSE CONTENT

- Switchgear and Controls
- Electrical and Automation panel wiring
- Sensors, Transducers & Instrumentation
- Programmable Logic Controllers (PLC)
- Human Machine Interface (HMI)
- Barcode Automation systems
- Machine vision systems
- Computer Aided Manufacturing systems
- Hydraulics & Pneumatics
- Flexible Manufacturing systems
- Linear motion systems
- Smart positioning using Servo, Stepper & Variable Frequency drives

Education and Training

To provide enhance Education and Training in the area of On board shipping and automation that caters to Mariners.



and innova

Technology Transfer

To provide a focal point for information and technology transfer to on board shipping Automation.

CDCE/ AMET/ SYB/ 2018- 2019



	AUTOMATION AND ROBOTICS	TOTOM	TION A	ND ROBOTICS - CAN
0		SYLLABUS DETAILS	TAILS	A 2 2 3 4 4 5 6 7
ò	Description	Theory	Decotors	
	Basics of Industrial Automation, Sensors, Instrumentation and Mechatronic.	3 Hrs	1 1 acucals	Products Used
2	Switchgears.	3 Hrs	3 Hrs	Teknik,Ideal, Schneider, Land T. Meaning, Fr.
ω.	Electrical and Automation nanal wing			Autonics, Omron
	MIIIBS.	3 Hrs	3 Hrs	Teknik, Ideal, Schneider, Land T, Meanwell, Eapl Autonics, Omron
4	Sensors and Transducers	3 Hrs	6 Hrs	Autonics, Ideal, Omron, Banner, Baumer, Pepperl
5	Instrumentation	3 Hre	11.0	CION I DUD
1		cms c	5 Hrs	Gefran, Epoch, Janatics, SMB, Autonics, Teknik.
0	Programmable logic controllers (PLC).	10 Hrs	20 Hrs	Omron Zen, Delta, Omron CP1E, Fuji Electric,
7	Human Machina Esta Communication			Misubishi, Keyence
	Transmit Augustia (HMI).	3 Hrs	6 Hrs	HMI, Delta B Series 5.7 inches Full fouch screen
00	Smart Positioning using Servo motors Stepper motors and	3 Hrs		Colour HMI,
6	Down	cm c	o Hrs	Stepper motor and Omron/Delta/Fuji VFD
	Datcode Automation systems.	3 Hrs	3 Lars	Zebra Barcode printer and Motorola Scanner



CDCE SCHOOL OF AUTOMATION AND ROBOTICS

A STATE OF THE STA

CDCE/AMET/EEEM/ATTD/2018-2019

S.No	Year	omeN	10/18		AMELL	VINIC	EXS.	V-V	TTE	DAN	CED	UNIVERSITY - ATTENDANCE DETAILS	S					
-	-	M DIN	150	199	13/5	1250	100	4 3 5 6	15 11 5 kg	14/5/18/21/21/21/18/21/2/18	10	5/9/13/9/15					-	
CI	=	SNAHASISH SAHA	x.	x	5<	×	*	×	X	a	A	V		-	-			1
5	=	ANITOSH MONDAL	×	× 3	X	ж,	×	×	1	X X	X	×					-	
77	=	S. VENKATESH	< 5	K 5	× s	× 3	× (+	X	+	-	X					14724	
vo.	11	S. DHARUN	< !	< ,	ix.	×		1	A		X	×					-	
9	=	M. S. VAITHIYANATHAN	× .>	< - 5	x a	×	× ;		AAA	+	X	A	-					
7	=	R. NAVEEN RAJ	5-	8	< }	K 3	X :	+		4	+	V						
20	=	R. MOHAN RAJ	×	. 4	۷,	<	× :	+		+	+	×						
6	=	S. KRISHNA RAJ	×	(8	κ ,	Χ,	> ;	+	\dagger	7	×	×	1					\vdash
10		K. GANESH BABU	. 5	5	K ,	×	×	×	X	+	A	4						1
=	, H	R. SURYA	5	< 5	× :	×	1	×	+	><	X	×				_	-	1
1.2	П	S. AZARUTHEEN	< se	< 3	× 3	× ·		H A	X	6	Œ	•						-
5	=	SREE KUTTAN, M	: 3	< 5	1	×	+	×	*	4	8	×					-	1
7	11	IMMANUEL PETER	< 3	< 3	K :	× .	-	A	×	4	E E	V					-	+-
15	^r ==	ABIRAJ. B	v 0		<	× (-	X	4	4	=	Ā			-	_	-	+
91	=	, D. PRAVEEN'	,		K	I	-	E G	4	d	A				-	-	-	-
1.7	=	VIGNESH, B,	5	< >	ĸ .	× .	-	X	+	4	X	V				-	-	-
82	~ =	P. KARTHI	c \$	< ×	× 3	+	+	+	B	4	B	A	-					-
61	· II	B. GOKULAKRISTINAN	a	a	< :	< 0	X C	+	V	4	W							-
30	=	A. SURYA	·×	- ×	× 3	+-	+	1	Þ	DE							-	-
23		PUNNOOSE BENNY	d	a	٠,	Ka	XX	+	X	4	<							-
22	*	V. SHRIRAM SURATH KUMAR		-	\dagger	-	+	+	T T	4	eζ					_		_
53	1	N BEED & COLUMN	1	1	-	_ ×	×	et.	¥	<	6		•				-	-

3

-								-	2m	1	1411	the same of the same of	-	-	7		
Ent.	SAMUEL MATHEW	G	X	G	><	Œ	V	¢	4	Ą							
Ξ	MANIKANDAN. ≅ N	200	X.	×	28%	×	e.	×	X	×	X						
Ξ	M. MATHANDEEPU	×	8	弘	×	×	><	×	4	S	X						
=	A. SURYAKUMAR	×	×	x	×	×	×	×	/	×	×						
$\equiv $	R. NAVINKUMAR	×	×	×	×	×	*	×	600	⋖	X						
Ξ	M. BASKAR	×	×.	×	*	×	×	×	4	X	×						
Ξ	K. JAYAKRISHNAN	*	X	-%	×	×	K	×	4	×	X						
\equiv	L. AJITHKUMAR	×	×	×	×	×	×	Ø	4	×	X						
Ξ	M. JAYAKUMAR	፠	X	×	×	×	×	×	4	Œ	×				-		
=	BAJARE SHARDUL JAYANTA	*	×	文	A	×	≪	×	X	Œ							
=	ALLWIN RENOLD.S	24	×	×	×	×	þæ	×	×	×	>			9/6			
Ξ	YASWANTH. S	×	×	ζ.	×	*	- «	*	1	V	<u>ا</u>						
Ξ	RAJKUMAR. E	×	×	. 8	×	×	×	*	×	×	×						
=	GHORA KAVI LAKSHMI PRASANNA KUMAR	×	×	×	×	×	×	×	4	A							
Ξ	K. VIGNESH	В	×	×	*	×	X	Y	4	A	×						
Ξ	B. JOSEPH MELVIN	Œ	×	5<	×	×	×	×	×	×							
Ξ	G. NANDHAKUMAR	Œ	×	K	×	×	×	×	4	×						-	12
=	U. SIVARAMAN	4	×	×	*	*	X	¥	4	k							
Ξ	L. SOUNDARA PANDIYAN	Ø	*	×	><	×	X	8	4	V							
Ξ	S. DIVINS SOBI	Œ	×	K	×	×	Я	×	G.	X	×					-	
- 1	No of Present	W	30	143	38	37	物の	S	8	18							-
	No of Stank		_	2	70	٥	00 G		80 15	25							

For CDCE School of Automation & Robotics

Authorized Signatory

Authorized Signatory

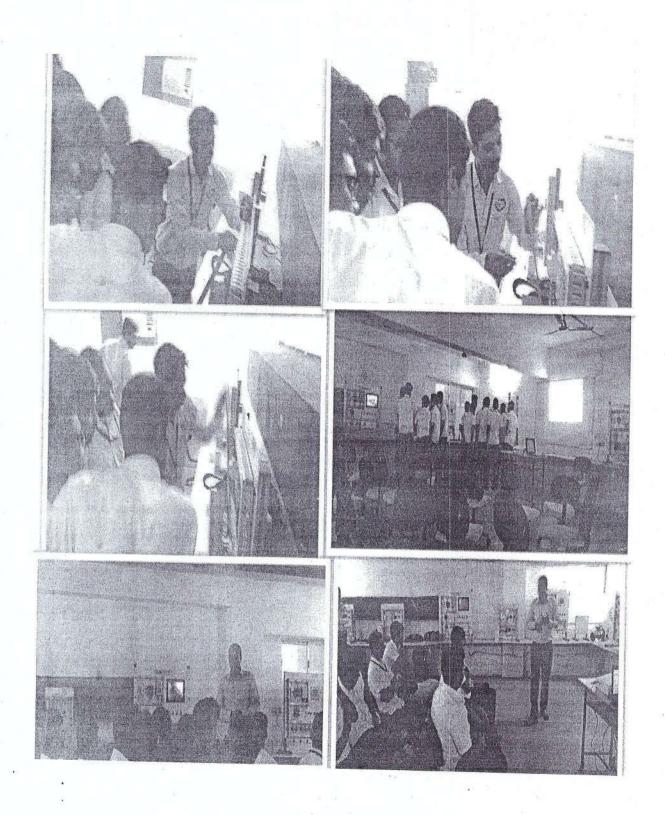
For AMET University



			F	INAL	V.					ACADEM (Declared as	Y OF MARITI Deemed to be U KANATHUF	ME EDUCA NIVERSI R, CHENNAI	TION AND TY u/s 3 of	TRAINING UGC Act 1956)
	S. No	RollNo.			JEAR					At	tenda	ince	Reg	ister
	S		Will and the second sec	NAME		1	A F 3	4	5	6	FA	F	A	FIA
	01	EE . 0268	ALLIA	1101 2-			4/10 24	10 24/10	1/4	1/11/2	7 8 1/4 24/	26/1	10	11 12
	02	EE 270		Same and	old S	-	1/	1	1	1.	11	/	1	1
	03	EE	BASK	(/	111	1	1	11	1/	/	1	11
		EE	T	S SOBI	_S	- //		1	1	1	11	1	1	7/7
		27 G	- AVA	KBISHNE	an k	//	1	1	1	//	/	1	$\frac{1}{2}$	7
		EEL	- DAMA!	SUMAR.	M	/	1/	1	/	1	,	1	4	1
		2A8 EE	JOSE PI	LMFL	UNB	1	1	1	//	,		-	///	+
0	1	LAA		NACINE		11	1	1	1	+	+;+		//	1 1
	08 3	EE 200		KUMAR		1/	1		//	1/	+-,+	4	4	
	1 1	Z L		Kumar	Comment of the control of the control	1 0	1/	/	080	1	14	4/	//	//
	10/2	93	RATICU			15	1			0/	1	1/	1/	1/
	11/2	RA		MADI		1	1/1		0) 0	4/	1	4	1	pi /
	12 2	ESS	W. N. D. O.	PANDLY		1	/	4	4/	1/	1/	1	1/	1
	23 25	E S	1.0212 6	EK HVINA	AN	+		/	4	/	11	11	1	1
	14 F	E	URYAK	The second secon	+	1/	//	1	6 /	1	11	11,	1	1
	17 29	E	MANE		-	1/	1/	1	1/	1	11	1/	1	1
	The second second second second	recland second	JAS WO	LARSH	/	1	a	2/	1	1	1	1	1	
12	12 E			- RANK	R	1	11	1	1	a	a g		la	a
						1	11	09	00		1 11	19	a	a
ŀ	18 295	MA	MAHTH	DEFPU	MI	1	11	0,2	0)	·/		+/-	/	4
-				The state of the s			1	1	0))		+	14		4
-		-						-						
-							1:-		\vdash	-				
-							_							
-				The state of the s			-							
_				***************************************		+								
				-	++					-				
		-			+		+		-					
				and the same of th	-		1						1	\dashv
		*I House Company	S									+	-	Management
					1					_	1		-	· ·



0	9	THIRD YE	F	-	700	E	<u> </u>	TA	7		17	Reg	1 700	91
SI.No.	RollNo.	NAME	1	2	3	4	5	6	F 7 241	8	9 26/	10	11	
01	EE	AZARVTHEEN S	1	1	1	/	10		1	/	1	9 26/	202	24
02	THE PERSON NAMED IN		1	1	1	1	1	1	1	1	1	a	1	T
03	EE	GANFSH BABUK	1	1	1	1	1	1	1	1	1	a	1	1
04	EE	CRISHNA RAJS	0	a	a	O,	a	a	a	a	a	a	A	1
05	10000000000000000000000000000000000000	MOIHAN RAJ R	1	1	1	1	1	1	1	1	1	a	1	0
06	3110	NAVEEN RAJR	1	1	1	1	1	1	1	1	1	a	a	
07	E.E.	SHA HASISH SAH	9 /	1	a	a	a	a	1	1	/	a	0	1
08	310	VENRATESH S	1	1	1	1		1	/	/	a	a	a	
09	E E	VIGNESH B	a	a	a	en	a	a	a	a	a	a	a	6
10	324 EE	PRAVEFIN D	1	/	1	/		/	/	/	/	a	/	0
112224	3261 EF	ANITOSH MONDA	4/		Ø /	1	- /			/	/	/	1	1
	327L 327L 331L	VALTHUYA NATHANN	134	a	a	9	a	9	a	a	a	a	a	0
	301L 35.E.	SRI RAM SURATM KUND	3 a	9	a	-01	a	9	a	a	a	a	4	4
	ETI	Surya, A	a	a	0	9	a	0	a	a	a	a	a	0
(5)	318 EE	Surya. R	1	-/-	\dashv	-/-	-	4	4	4	/	9	1	/
	302	DINESH KUMAR	 	1	1	1	1	a	/	4	/	a	1	1
17	300	BEER MOHAMED	/		a	a	a	n	a	a	a	a	4	A
1	+											_		-
	1		A 8.1		\dashv					-		-		-
					-			-			-	-		
			4:		$\neg \dagger$	-	+	-+	-		-	-		
1					$\neg \dagger$	-		,	+	-		\dashv	-	
					-	_	+		+	+	+	\dashv		
		*			-	+	-		-	-		-		
				7	+		+			+	+	+	-	
				-						+		-	+	
		3			1	+	+	-		-	+	+		
		F ₂				+	+			+	_	-	-	
	Sign	ature of the Faculty					2	+				+	İ	
												1		



Onboard Ship Automation by CDCE School of Automation and Robotics



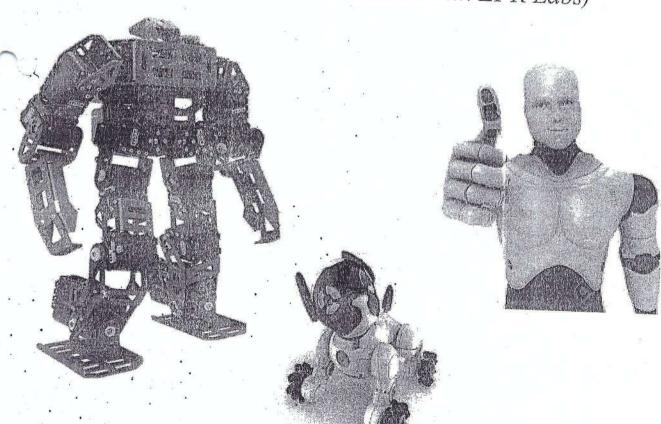
ACADEMY OF MARITIME EDUCATION AND TRAINING DEEMED TO BE UNIVERSITY (Under Section 3 of UGC Act 1956)

PROPOSAL FOR VALUE ADDED COURSE

by

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

(in association with EPR Labs)



PROPOSAL FOR VALUE ADDED COURSE ON PRODUCT DEVELOPMENT TRAINING AND BASIC ROBOTICS USING MCU

INTRODUCTION:

To fulfill the expected growth in manpower requirement and the future needs of the engineers in industry more courses are needed at different levels. Private institutions do conduct some courses for training such manpower. However, these are more like coaching classes. True growth of knowledge in this field can come through education programmes conducted by Universities. At present no university in India has started courses in this field. It is hence considered necessary to add new course in robotics and artificial intelligence to impart wider skills needed in this area. With the globalization of the automation industry it has become imperative to update and upgrade these courses so that Indian industry can face the global challenges and maintains its growth in this vital segment.

The value added course on robotics and artificial intelligence, which include direct teaching, assignments and project. Totally six course module available in the value added course on robotics and artificial intelligence. Students who will complete one of these courses modules will be eligible for a certificate. These courses to begin with course module I and will be extended at other semesters as value added course.

The fees for each value added course on product development training and basic robotics using MCU is Rs. 1,500.

It is proposed that the value added course will be for a period of one semester (Wednesday-Thursday) with around 4 hrs teaching per week.

Assignments and projects will be given to the students to calibrate and to provide the certificate.

VALUE ADDED COURSE ON MCU AND ROBOTICS

The purpose of the value added course is to simplify the creation of robotic applications and to do research projects on robotics. The course on robotics is divided into six course modules. Each course has been framed for approximately 30 hours. These 30 hours of course module gives immense knowledge on integration of robotics parts into robots and programming. Students will be able to design humanoid robot, Animal robot, Android robot, Prince Robot and 3D printing. Students are also given extensive hands on training for developing mobile robots. In addition, the

behavior of the robots, study of their communications and specifications (attenuation, power, wiring or radio frequency) is imperative. This course will give a great impact to develop various robots for different applications like space research, robots at operation theatre and to neutralize the bomb at the line of crossing during war time.

OBJECTIVE OF THE VALUE ADDED COURSE:

The main objective of the value added course is to make students capable to understand the behaviour of different parts of robots. The student's will be able to make his/her desired work using robot and reducing the need of a human to increase the accuracy and speed of the work.

- To understand the fundamentals of Robotics
- To learn techniques for programming of robots
- To understand the behavior of combined system of different engineering modules using artificial intelligence
- To optimize safety and reliability

VALUE ADDED COURSE STRUCTURE:

The training course is divided into six modules

Course Module	Course Details	Duration
Module I	Product Development Training and Basic Robotics Using MCU	(Hours)
Module II	Gadget Development Training using MPU	30
Module	Advanced Robotic Course - Humanoid Robot Design	30
00		30
Module IV	Animal Anatomy Robot Design (dog, cat, reptile etc.,)	
Module V	Quad copter - Designing and Programming	30
Module VI	Building and Using 3d Printer	3.0
	5 - Sing Stilling	30

BENEFITS

- Study of different types of robots based on configurations and applications.
- Study of different types of links and joints used in robots
- Study of components of robots with drive systems
- Verification of transformation (Position and orientation) with respect to gripper and World coordinate systems
- Estimation of accuracy, repeatability and resolution
- Robot programming exercises (Point-to-point and continuous path programming)

WHO WILL GET BENEFITS OF THIS VALUE ADDED COURSE?

The value added course on "Product Development Training and Basic Robotics Using MCU" will be more added advantage with regular academic subjects for second year EEE student. The value added course training will be given for second year EEE students by the experts from the Electronics Platform Research Lab's.

INDUSTRIAL AUTOMATION TRAINER

An MOU is signed between the Department of Electrical and Electronics Engineering, AMET University and Electronics Platform Research Lab's (EPR Labs) on 7 May 2017 in order of facilitate research on design of robots, programming of robots and to operate the robots using Artificial Intelligence.



CERTIFICATE OF COMPLETION

This certifies that

S. DHARUN

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54.

Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

R. MOHAN

RAJ

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54.

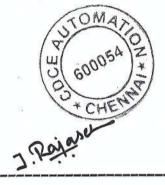
Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

R. MOHAN RAJ

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

R. MOHAN RAJ

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

R. NAVEEN RAJ

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).

7. Pajaner CHEHHAR



No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54.

Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

K. GANESH BABU

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).

Tojaner CHENNY



No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54.

Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

SNAHASISH SAHA

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).



1 Rojaker



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

CERTIFICATE OF COMPLETION

This certifies that

D. PRAVEEN

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





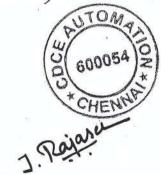
No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54. Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

S. VENKATESH

of Electrical L Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

D. PRAVEEN

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

ANITOSH MONDAL

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





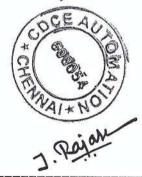
No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54. Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

S. AZARUTHEEN

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

A. SURYA

of Electrical L Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

M. BASKAR

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

K. JAYAKRISHNAN

of Electrical L Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





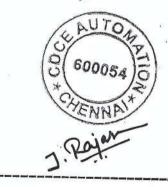
No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54. Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

M. JAYA KUMAR

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54.

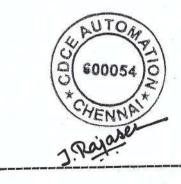
Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

B. JOSEPH MELVIN

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54.

Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

N. MANIKANDAN

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

GI. NANDHA KUMAR

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).

3 Rajares



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

CERTIFICATE OF COMPLETION

This certifies that

R. NAVIN KUMAR

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





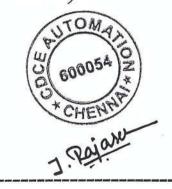
No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54. Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

E. RAJKUMAR

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

U. SIVARAMAN

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

L. SOUNDARA PANDIYAN

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54.

Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

A. SURYAKUMAR

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

K. VIGNESH

of Electrical L Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).



1 Rajare



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

CERTIFICATE OF COMPLETION

This certifies that

S. YAS WANTH

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





No: 2/2, Nagavalliamman Koil 3rd street, Kavarapalayam, Avadi, Chennai-54.

Mobile - +91 98848 44687/ +91 98848 44687

CERTIFICATE OF COMPLETION

This certifies that

L. AJITHKUMAR

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

M. MATHAN DEEPU

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).



1. Pajan



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

CERTIFICATE OF COMPLETION

This certifies that

S. ALLWIN RENOLD

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).



1. Pajare



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

CERTIFICATE OF COMPLETION

This certifies that

GIORAKAUI LAKSHMI PRASANNA KUMAR

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).





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

CERTIFICATE OF COMPLETION

This certifies that

M. DINESH KUMAR

of Electrical & Electronics Engineering from AMET (Deemed to be University) Chennai, has participated and successfully completed the training course on "Industrial Automation" during the period July'18 - March'19 (80 hours).

