



AMET

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE DETAIL

ACADEMIC YEAR-2018-19

1	Course Name	Product Development Training and Basic Robotics Using MCU
2	Course offered by	Electronics Platform Research Labs, Chennai
3	Co-Ordinator	Dr.M.Rajavelan
4	Instructor	Mr.R.Purushothaman, EPR Labs
5	Course	-
6	Class	BE-EEE(Marine)
7	Number of Students per batch	47
8	Duration	30hrs
9	No. of Hrs /Week	2hrs/week
10	Prerequisite	Basics of Electrical and Electronics Engineering
11	About the Course	Study about different types of Robots based configurations and applications. Components of Robots with drive systems. Estimation of accuracy, repeatability and resolution.
12	Course Objective	To integrate robotics parts and Programming
13	Course Outcome	Able to design Humanoid robots and 3D Printing
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 Coordinators:

Dr. M. Rajavelan, Assistant Professor
E-mail ID: m.rajavelan@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 benefitted through this training.

Training Modules	Total No. of Students	Duration (Hrs)
Module 1 to Module 6	47	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)

ABOUT THE UNIVERSITY

AMET University has got a unique distinction of being the first maritime university established in India and offering academic, research, training 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 abroad. 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 of shipping, Government of India.

ABOUT THE DEPARTMENT

Department of Electrical and 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 Doctoral programs in core areas as well as interdisciplinary domains.

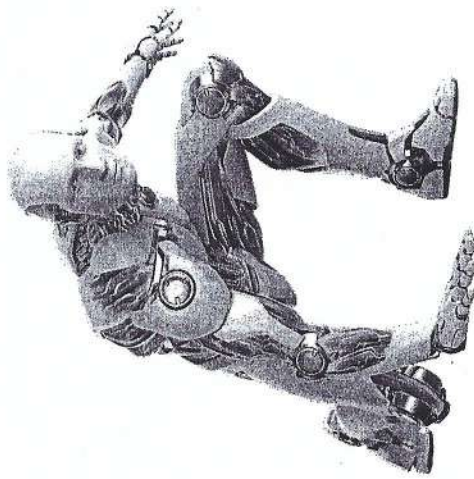
The department houses state-of the art laboratories, smart class rooms and well stacked library to impart teaching and research. The department is committed to community development and conducts regular extension activities to benefit the local and needy villagers around the university. The department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



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25
Years

VALUE ADDED TRAINING PROGRAM ON PRODUCT DEVELOPMENT AND BASIC ROBOTICS USING MCU



Organized by

**DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING**

In association with



**ELECTRONICS PLATFORM
RESEARCH LABS**

ABOUT VALUE ADDED TRAINING PROGRAM:

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.

OBJECTIVES OF THE WORKSHOP:

The main objective of the value-added course is to make students capable to understand the behavior 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

COURSE CONTENT:

Course Module	Course Details	Duration (Hours)
Module I	Product Development Training and Basic Robotics Using MCU	30
Module II	Gadget Development Training using MPU	35
Module III	Advanced Robotic Course - Humanoid Robot Design	35
Module IV	Animal Anatomy Robot Design (dog, cat, reptile etc.,)	35
Module V	Quad copter - Designing and Programming	35
Module VI	Building and Using 3d Printer	35

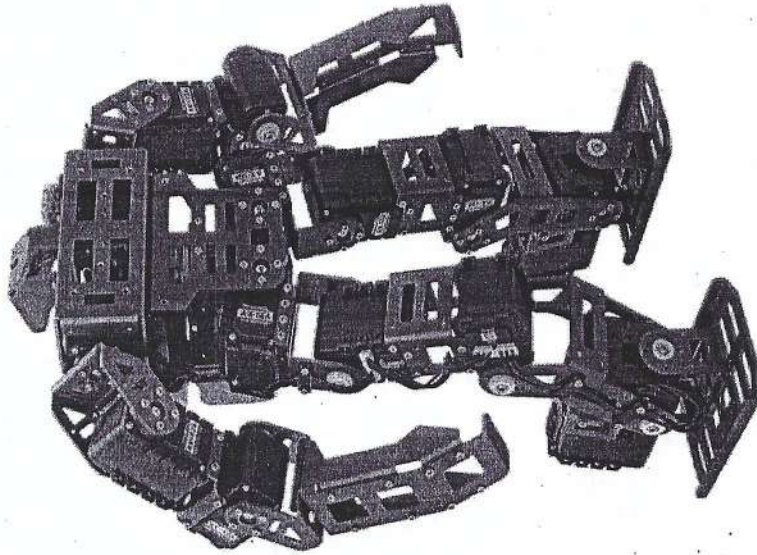
COURSE OUTCOME

After completion of the course, students will

- Demonstrate different types of robots based on configurations and applications.
- Able to study of different types of links and joints used in robots
- Able to 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)

ASSESSMENT METHOD

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





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REPORT

on

VALUE ADDED TRAINING PROGRAM

“PRODUCT DEVELOPMENT AND BASIC ROBOTICS USING MCU”

Organized By
Department of Electrical and Electronics Engineering

In Collaboration with



ELECTRONICS PLATFORM RESEARCH LABS

Date: SEPTEMBER 2018- NOVEMBER 2018

Venue:
AMET Deemed to be University

Convener
Dr. T. Sasilatha
Professor and Dean
Department of Electrical and Electronics Engineering

Co-Ordinators
Dr. M. Rajavelan, Assistant Professor

The Department of Electrical and Electronics Engineering of AMET Deemed to be University has organized Value Added Training Programme on “**Product Development and Basic Robotics Using MCU**” during September 2018 to November 2018 at AMET Deemed to be University in collaboration with Electronics Platforms Research labs. 47 students from 2nd years B.E (Electrical and Electronics Engineering-Marine) of Batch-10 attended the training programme.

The event started on 3rd September 2018 at AMET Deemed to be University, @ 9.00 AM with the overview by the EPR Labs team. They conducted a basic test to know the understanding level of the students. After that summary about the entire training programme was given by the co-ordinator of the EPR Labs team. The training was conducted from 9.00AM to 4.30PM on every day. For all the days students were undertaken the theory as well as the hands-on practical sessions. During the practical sessions, students were provided with the separate circuit boards for practice. On 24th November 2018, the training programme was ended with the feedback session.

The contents of the programme are as follows:

Course Module	Course Details	Duration (Hours)
Module I	Product Development Training and Basic Robotics Using MCU	30
Module II	Gadget Development Training using MPU	35
Module III	Advanced Robotic Course - Humanoid Robot Design	35
Module IV	Animal Anatomy Robot Design (dog, cat, reptile etc.,)	35
Module V	Quad copter - Designing and Programming	35
Module VI	Building and Using 3d Printer	35

Feedback by the students:

- The students of final year and third year valued the training programme since hands-on experience was given by the EPR Labs training team.
- The students are well aware about the safety practices followed in the industry.
- The student's skills are amended since they learned the working of the robotics and automation.

The following students attended the training programme.

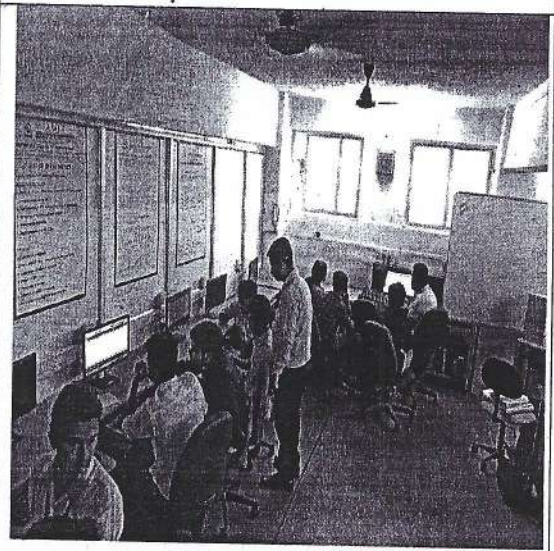
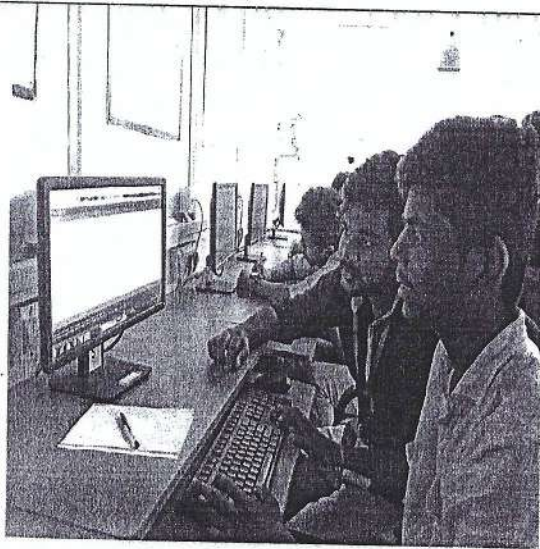
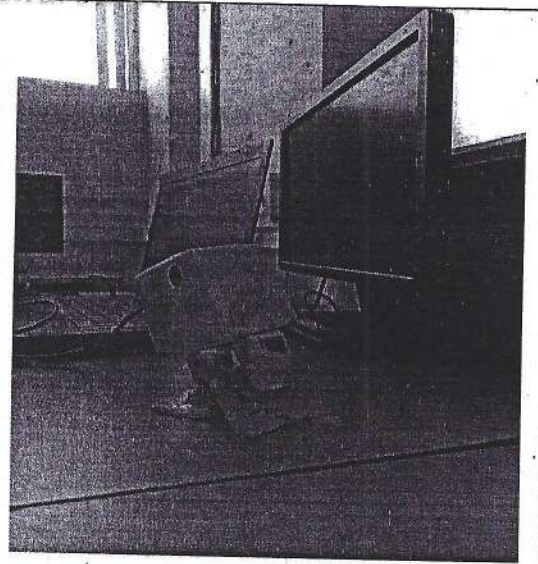
II Year EEE

S.No	Roll No	Student Name
1	EE329	VINNARASI V
2	EE330	AAGASH G
3	EE331	ABHISHEK M DEEPAK
4	EE332	ADARSH P
5	EE333	AKASH K
6	EE335	ARUN P
7	EE336	ARUN KUMAR K S
8	EE337	BALA GANESH P
9	EE338	BALAJI M
10	EE339	BALAMURUGAN K
11	EE340	BRIJESH C R
12	EE341	P DHANASEKAR
13	EE342	DINESH R
14	EE343	DURAIPANDI A
15	EE344	HARIHARAN N
16	EE345	I HASHEEM SHARIFF
17	EE346	HEMANTH RAJ R
18	EE347	JAYA SURYA G
19	EE348	KARTHICK R
20	EE350	MAHESHWARAN A
21	EE351	MANIVANNAN DS
22	EE352	MANOJ C K
23	EE353	MANOJ KUMAR R
24	EE354	MOHAMED NAJEEM N
25	EE355	MOHAMED YASEER N
26	EE356	MOHAMMED AZHAIR M S
27	EE357	MOHAMMED SHUAIB K
28	EE358	NAVEEN B
29	EE359	NAVEEN P
30	EE360	NAVIN ANAND
31	EE361	NIRMAL KUMAR B
32	EE362	PRADEEP M
33	EE363	PURUSHOTHAMAN N
34	EE364	RUDRAN V
35	EE365	SANTHOSH B
36	EE367	SOURAV GUPTA
37	EE368	SUDARSHAN K
38	EE369	SURYA PRASAD A
39	EE370	UDHAYAKUMAR A
40	EE372	VENKATESAN K
41	EE374	YOGESH KUMAR A
42	EE375	VIGNESH K

S.No	Roll No	Student Name
43	EE377	SRIDHAR
44	EE378	PRATIK KUMAR GUPTA
45	EE379	JOEL ROFOTOPOLOS RODRIGUES DA COSTA MESTRE
46	EE380L	EZHIL ARASAN R
47	EE381L	VEERAPATHIRAN M C
48	EE382L	VIKNESH S

Some of the photographs are attached



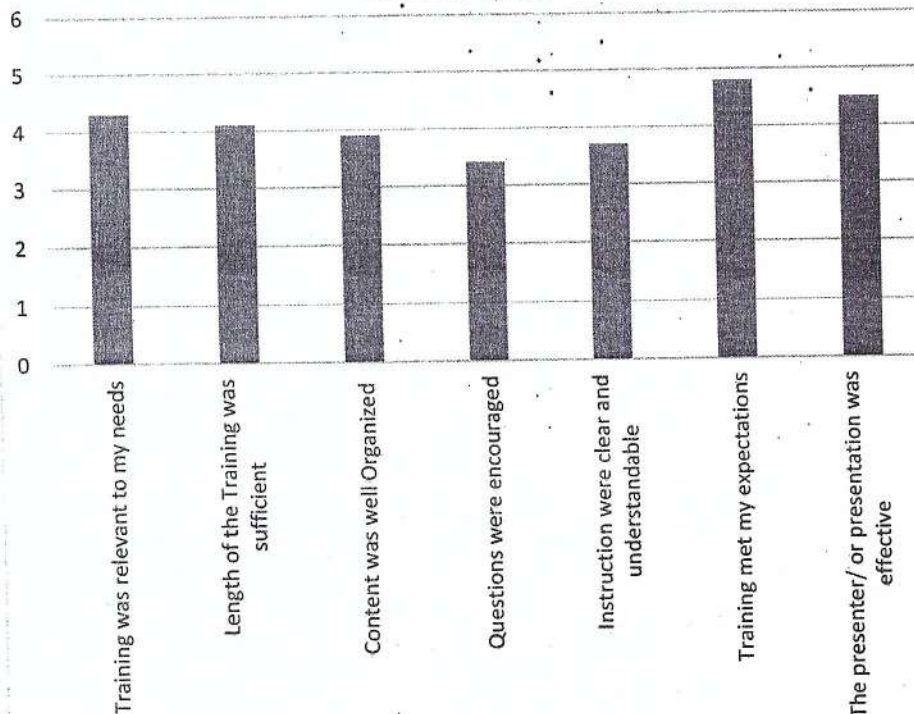




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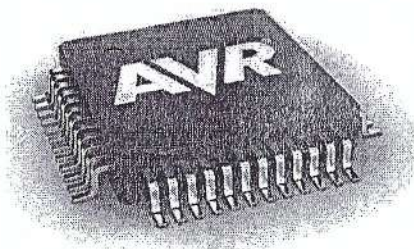
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
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FEEDBACK ANALYSIS



Action Taken: Found Satisfactory

PRODUCT DEVELOPMENT TRAINING USING ARDUINO

Core Circuit design for Arduino



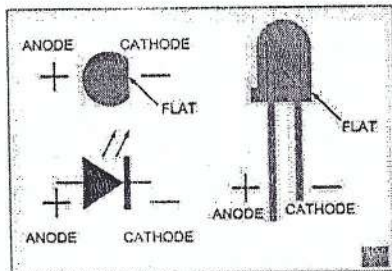
Embedded C Programming

Robotics and their architecture

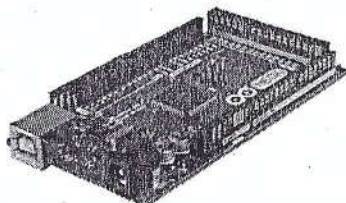
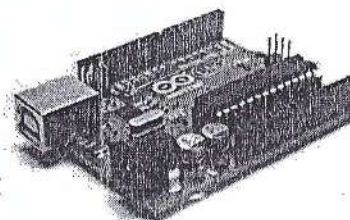
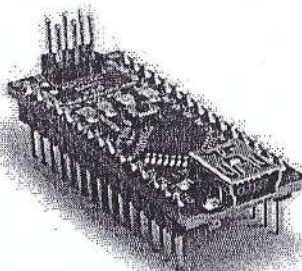
Peripheral Interface details

Programming and controlling hardware

Sensors and its types interfacing sensors to controller and programming



Interfacing Sensors and LED/Buzzer for dancing movement of robot Designing Dancing lights fading concepts etc.,



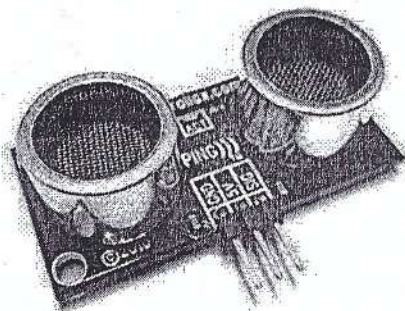
-4 HOURS

Interfacing Motor



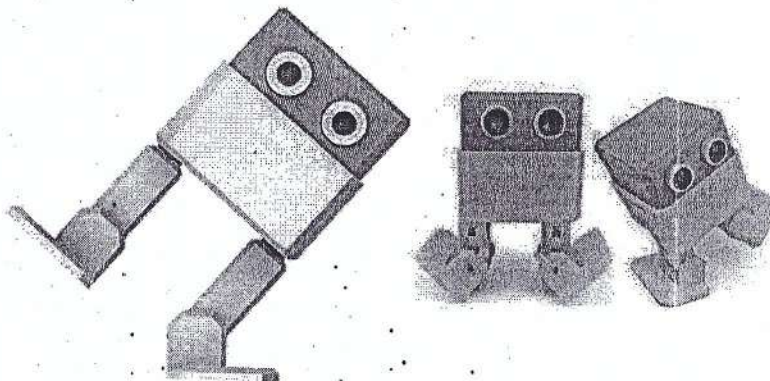
Driver Circuit for Motor

Programming the Motor and Designing Basic Robots

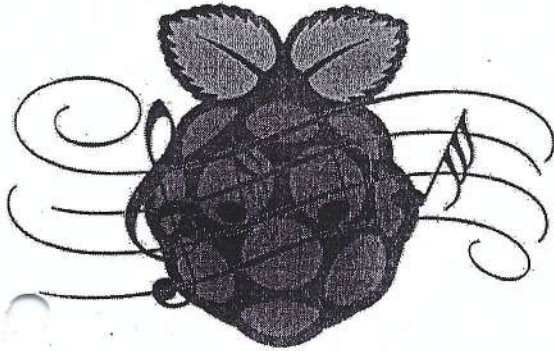


Demo of Walking and Dancing Robot

Object avoidance for Bipedal Robot



-4 HOURS



Introduction to Linux Operating System

Overview and Pin details of Raspberry Pi

Making Boot file

Understanding Make file and Script file concepts

Programming Environment – GCC and Nano Editor

Understanding Amplifier Concepts and espeak application

Voice Applications and setting different tones

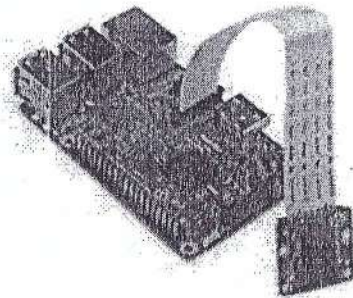
Writing code to control the playlist

Requirement study and specification, Configuring Camera

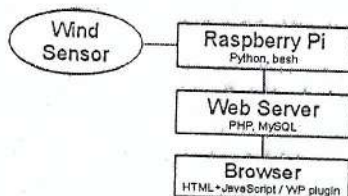
Raspistill and Rspivid application in detail

Saving image options like pixel, timestamp details

Designing an Automatic Welcoming and Felicitating Application



-6 HOURS



IOT CONCEPTS:

Programming Environment – GCC and Nano Editor

Web-server overview

Connecting Raspberry GPIO to Web interface

Writing the Code in C

File storage Motor Interface with the Processor

Designing of Wheeled Robot with Camera Interface Motion

Application to Monitor the Robot.

Surveillance application.

-6 HOURS

This training program is exclusively designed for AMET University and we charge Rs. 2250/- per student. Students can bring laptop.

What we need?

We need 6 hours of your Valuable time per day;

Minimum 10 Systems with USB Keyboard and USB Mouse depending upon batch size with Projector and Audio facilities.

Motive behind this workshop we are looking for Talent Acquisition in reputed Educational Institutions. We want all the students to Learn and use / Program / Promote our Open Source Robot Online.

Systems or Laptop should have minimum Core2Duo or i3 Processor or equivalent and 4GB RAM, 50 GB memory space for operation With Windows 7 or higher.

For more details Contact 9486806486/ 9080589766

Certificates will be provided for each student.

COURSE MODULE I: Product Development Training and Basic Robotics Using MCU

Duration of the course (30 Hours):

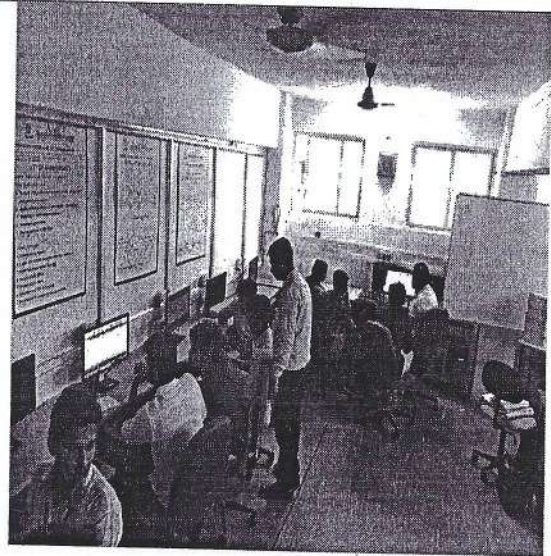
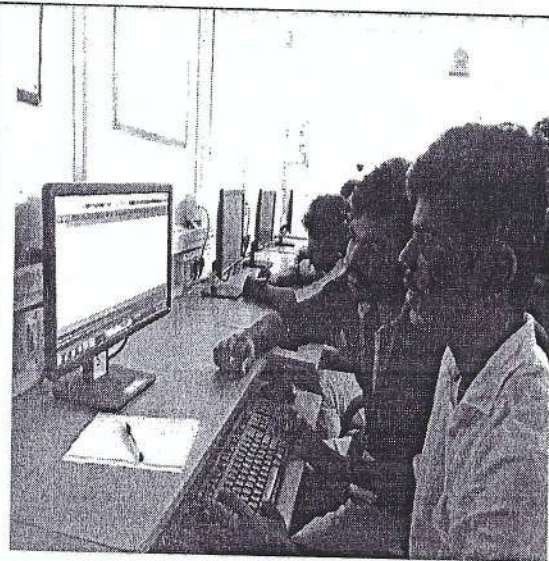
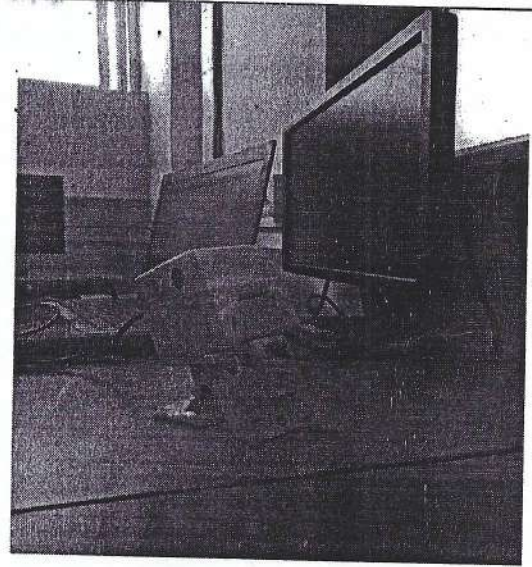
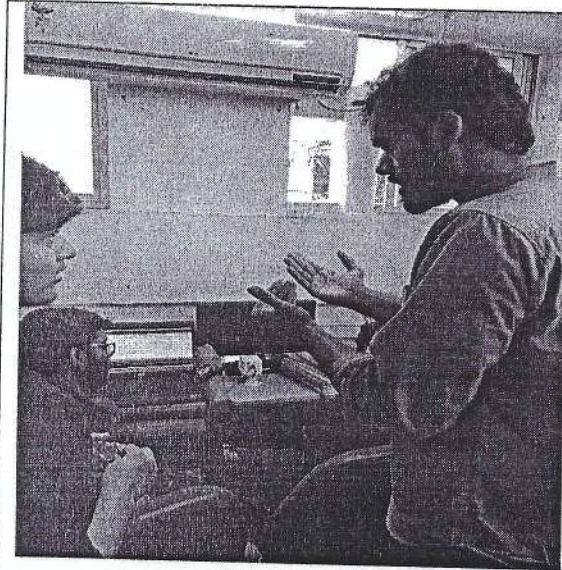
S.No	Description	Theory	Practical
1	Overview of Product design, Introduction to microcontroller architecture, Differences between various microcontroller architecture with real time examples (Mobile phone, Washing machine etc.), Core Circuit design for Controller, Embedded C Programming, Robotics and their architecture ,Peripheral Interface details, Programming and Controlling hardware, LED and Buzzer programming, Various tasks using LED Buzzer, PWM technique	3Hrs	5 Hrs
2	Sensors and its types ,Interfacing sensors to controller and programming ,Interfacing Sensors and LED/Buzzer and programming tasks, Overview of Actuators, Power circuit design for motors, Integrating Sensors and Motors to design a Robot, Designing 5+ Wheeled Robots using various sensors	2Hrs	3Hrs
3	ADC solution for sensor accuracy, Application of ADC, Designing Temperature monitoring device (used in Induction stove, Oven and Air Conditioner)	2Hrs	3Hrs
4	Interrupt Programming, Real Time experience on the product	2Hrs	3Hrs
5	Timer Programming, Application of Timers and its importance, Introduction to Wireless concepts (Bluetooth) , USART Programming (Designing Wireless Controlled applications. e.g. Wireless Robot, Home automation etc.), Queries, Feedback, Certification	3Hrs	4 Hrs

DAY PLAN FOR VALUE ADDED PROGRAMME

S.NO	DATE	DAY	HOUR	Status	
1	03/09/2018	MONDAY (3 rd and 4 th Hour)	10.50 AM to 12.40 PM	Conducted	2
2	12/09/2018	WEDNESDAY (6 th and 7 th Hour)-	2.20 PM to 4 PM	Conducted	2
3	13/09/2018	THURSDAY (1 st and 2 nd Hour)-	9 AM to 10.40 AM	Holiday , Not Conducted Ganesha festival	-
4	19/09/2018	WEDNESDAY (6 th and 7 th Hour)-	2.20 PM to 4 PM	Not conducted EPR lab trainer unavailable	-
5	20/09/2018	THURSDAY (1 st and 2 nd Hour)-	9 AM to 10.40 AM	Not Conducted Convocation – Holiday declared for students	-
6	26/09/2018	WEDNESDAY (6 th and 7 th Hour)-	2.20 PM to 4 PM	Conducted	2
7	27/09/2018	THURSDAY (1 st and 2 nd Hour)-	9 AM to 10.40 AM	Not Conducted Class suspended for students due Intl. conference	-
8	03/10/2018	WEDNESDAY (6 th and 7 th Hour)-	2.20 PM to 4 PM	Not conducted EPR lab trainer	-



S.No	Roll No	Student Name	03.09.18	12.09.18	25.09.18	18.10.18	24.10.18	25.10.18	27.10.18	01.11.18	08.11.18	14.11.18	16.11.18	24.11.18		
1	EE329	VINNARASI V	/	/	/	/	/	/	/	/	/	/	/	/		
2	EE330	AAGASH G	/	/	/	/	/	/	/	a	/	/	/	/		
3	EE331	ABHISHEK M DEEPAK	/	/	/	/	/	/	/	/	/	/	/	/		
4	EE332	ADARSH P	/	/	/	/	/	/	/	/	/	/	/	/		
5	EE333	AKASH.H	/	a	/	/	/	/	/	/	/	/	/	/		
6	EE335	ARUN P	/	/	/	/	/	/	/	/	a	/	/	/		
7	EE336	ARUNKUMAR K S	a	/	/	/	/	/	/	/	a	/	/	/		
8	EE337	BALAGANESH	/	a	/	/	/	/	/	/	/	/	/	/		
9	EE338	BALAJI M	/	a	/	/	/	/	/	/	/	/	/	a		
10	EE339	BALAMURUGAN K	/	a	/	/	/	/	/	/	/	/	/	/		
11	EE340	BRIJESH C R	/	/	/	/	/	/	/	/	/	/	/	/		
12	EE341	DHANASEKAR P	/	/	/	/	/	/	/	/	/	/	/	/		
13	EE342	DINESH R	/	/	/	/	/	/	/	/	/	/	/	/		
14	EE343	DURAIPANDI A	a	a	/	/	/	/	/	a	a	/	/	/		
15	EE344	HARIHARAN N	a	a	/	/	/	/	/	/	/	/	/	/		
16	EE345	HASHEEM SHARIFF I	/	a	/	/	/	/	/	/	/	/	/	/		
17	EE346	HEMANTHRAJ R	/	/	/	/	a	/	/	/	/	/	/	/		
18	EE347	JAYASURYA	/	/	/	/	/	/	/	/	/	/	/	/		
19	EE348	KARITHIK R	a	/	a	/	/	/	/	/	a	/	/	/		
20	EE350	MAHESHWARAN A	/	/	/	/	/	/	/	/	/	/	/	/		
21	EE351	MANIVANNAN D S	/	/	/	/	/	/	/	/	/	/	/	/		
22	EE352	MANOJ C K	/	/	/	/	/	/	/	/	a	/	/	/		
23	EE353	MANOJ KUMAR R	/	/	/	/	/	/	/	a	/	/	/	/		
24	EE354	MOHAMMED NAJEEM	/	/	/	/	/	/	/	/	/	/	/	/		
25	EE355	MOHAMMED YASEER N	/	/	/	/	/	/	/	/	a	/	/	/		
26	EE356	MOHAMMED AZHAIR M.S	/	/	/	/	/	/	/	/	/	/	/	/		
27	EE357	MOHAMMED SHUAIB K	/	/	/	/	/	/	/	/	/	/	/	/	a	
28	EE358	NAVEEN.B	/	a	/	/	/	/	/	/	/	/	/	/		
29	EE359	NAVEEN.P	/	/	/	/	/	/	/	/	/	/	/	/		
30	EE360	NAVIN ANANDH	a	/	/	/	/	/	/	a	/	/	/	/		
31	EE361	NIRMAL KUMAR	/	/	/	/	/	/	/	/	a	/	/	/		
32	EE362	PRADEEP M	/	/	/	/	/	/	/	/	a	/	/	/		
33	EE363	PURUSHOTHAMAN N	/	/	/	/	/	/	/	/	/	/	/	/		
34	EE364	RUDRAN V	/	/	a	/	/	/	/	/	/	/	/	/		
35	EE365	SANTHOSH B	a	/	a	/	/	/	/	/	/	/	/	/		
36	EE368	SUDARSHAN	/	/	/	/	/	/	/	/	/	/	/	/		
37	EE369	SURYA PRASAD A	/	/	/	/	/	/	/	/	/	/	/	/		
38	EE370	UDHAYA KUMAR A	/	/	a	/	/	/	/	/	/	/	/	/		
39	EE372	VENKATESAN K	/	a	/	/	/	/	/	/	/	/	/	/		
40	EE374	YOGESH KUMAR A	/	a	/	/	/	/	/	/	/	/	/	/		
41	EE375	VIGNESH K	/	/	/	/	/	/	/	a	/	/	/	/		
42	EE 377	Sridhar	/	/	a	/	/	/	/	/	/	/	/	/		
43	EE 378	Prathik Kumar Gupta	/	/	/	/	/	/	/	/	/	/	/	/		
44	EE 379	JOEL MESTRE	/	a	/	/	/	/	/	/	/	/	/	/		
45	EE 380 L	EZHIL ARASAN R	/	/	/	/	/	/	/	/	/	/	/	/		
46	EE 381 L	Veerabhatheeran	/	/	/	/	/	/	/	/	/	/	/	/		
47	EE 382L	VIKNESH S	/	/	/	/	/	/	/	/	/	/	/	/		



Product Development Training and Basic Robotics Using MCU by EPR Labs



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED TRAINING PROGRAM

on

PRODUCT DEVELOPMENT USING MCU

in association with

Electronics Platform Research Labs (EPR Labs)

Certificate of Completion

This is to certify that Mr. MOHAMED NAJEEEM.N. I YEAR EEE MARINE of

..... AMET DEEMED TO BE UNIVERSITY has successfully completed the training course of 30 hours in
“Product Development and Basic Robotics Using MCU” in association with Electronics Platform Research Labs (EPR Labs),
during the academic year 2018- 2019 (Odd Sem) at AMET Deemed to be University.

Mr. R. Purushothaman

CEO/Founder
Electronics Platform Research Labs
Chennai

Dr. T. Sasilatha

Dean- EEE

Dr. P. Saravanan

Registrar



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PRODUCT DEVELOPMENT USING MCU

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Electronics Platform Research Labs (EPR Labs)

Certificate of Completion

This is to certify that Mr. **BALAJI : M. II YEAR, ... EEE - MARINE** of

..... **AMET DEEMED To BE UNIVERSITY** has successfully completed the training course of 30 hours in
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Mr. R. Purushothaman

CEO/Founder
Electronics Platform Research Labs
Chennai

Dr. T. Sasilatha

Dean- EEE

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This is to certify that Mr. JAYA SURYA G. II YEAR EEE - MARINE of

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Certificate of Completion

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AGASH..... *G*..... *II* YEAR..... *EEE - MARINE*..... of

AMET..... *DEEMED TO BE*..... *UNIVERSITY*..... has successfully completed the training course of 30 hours in
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This is to certify that Mr. **HASHEEM SHARIFF. I** **II** YEAR **EEE - MARINE** of

AMET DEEMED TO BE UNIVERSITY

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Certificate of Completion

This is to certify that Mr.

..... **ABHISHEK M. DEEPAK** **II YEAR, EEE - MARINE** of

“Product Development and Basic Robotics Using MCU” in association with Electronics Platform Research Labs (EPR Labs), during the academic year 2018- 2019 (Odd Sem) at AMET Deemed to be University.

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This is to certify that Mr. SURYA PRASAD A II YEAR EEE - MARINE of
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This is to certify that Mr. **C.R. BRIJESH** **II** YEAR, **EEE - MARINE** of

AMEI DEEMED TO BE UNIVERSITY

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Certificate of Completion

This is to certify that Mr. VENKATESAN. K. II YEAR, EEE ... MARINE of

..... AMET DEEMED TO BE UNIVERSITY has successfully completed the training course of 30 hours in

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This is to certify that Mr. ETHIL ARASAN R II YEAR, EEE - MARINE of
AMET DEEMED TO BE UNIVERSITY has successfully completed the training course of 30 hours in

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This is to certify that Mr. **BALA GANESH P. II YEAR, EEE - MARINE** of

..... **AMET DEEMED TO BE UNIVERSITY** has successfully completed the training course of 30 hours in
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Certificate of Completion

This is to certify that Mr. JOEL MESTRE.....II YEAR.....EEE - MARINE.....of
AMET DEEMED TO BE UNIVERSITY.....has successfully completed the training course of 30 hours in

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Certificate of Completion

This is to certify that Mr. **VIKESH S. II YEAR, EEE - MARINE**.....of

AMET DEEMED TO BE UNIVERSITY.....has successfully completed the training course of 30 hours in

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This is to certify that Mr. DINESH R. II YEAR, I, EEE - MARINE of
AMET DEEMED TO BE UNIVERSITY has successfully completed the training course of 30 hours in
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This is to certify that Mr. UDHAYA KUMAR A. II YEAR / ... EEE - MARINE of

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This is to certify that Mr. **MOHAMMED. AZHAIR. M.S.** **II** YEAR **EEE - MARINE** of

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This is to certify that Mr. ADARSH P II YEAR EEE - MARINE of
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This is to certify that Mr. **SVDARS.HAN.K.** **II** YEAR **EEE - MARINE** of

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Certificate of Completion

This is to certify that Mr. **PURUSHOTHAMAN N.** **II** YEAR **EEE - MARINE** of

AMET DEEMED TO BE UNIVERSITY has successfully completed the training course of 30 hours in

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This is to certify that Mr. **RUDRAN V** **II** YEAR **EEE - MARINE** of

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This is to certify that Mr. **SANTHOSH B. I YEAR, EEE - MARINE** of

..... **AMET DEEMED TO BE UNIVERSITY** has successfully completed the training course of 30 hours in

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Certificate of Completion

This is to certify that Mr. **PRATHIK KUMAR GUPTA** **II YEAR** **EEE - MARINE** of

..... **AMET DEEMED TO BE UNIVERSITY** has successfully completed the training course of 30 hours in
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Certificate of Completion

This is to certify that Mr. PRATHIK KUMAR GUPTA..... I YEAR... EEE - MARINE..... of
AMET DEEMED TO BE UNIVERSITY..... has successfully completed the training course of 30 hours in

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Certificate of Completion

This is to certify that Mr. YOGESH KUMAR A II YEAR, EEE - MARINE of

..... AMET DEEMED TO BE UNIVERSITY has successfully completed the training course of 30 hours in
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This is to certify that Mr. MANOJ C.K. II YEAR, EEE - MARTINE of

..... AMET DEEMED TO BE UNIVERSITY has successfully completed the training course of 30 hours in
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Certificate of Completion

This is to certify that Mr.....**DHANASEKAR P**.....**I** YEAR.....**EEE - MARINE**.....of

.....**AMET DEEMED TO BE UNIVERSITY**.....has successfully completed the training course of 30 hours in

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Certificate of Completion

This is to certify that Mr. **NAVEEN B** **II** YEAR **EEE - MARINE** of

AMET DEEMED TO BE UNIVERSITY has successfully completed the training course of 30 hours in
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This is to certify that Mr. ARUNKUMAR K.S. II YEAR, EEE of
..... AMET DEEMED TO BE UNIVERSITY

..... has successfully completed the training course of 30 hours in
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This is to certify that Mr. **BALAMURUGAN .K.** **I** YEAR, **EEE... MARINE** of

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This is to certify that Mr. MANI VANNAN D.S. II YEAR... I... EEE... - MARINE of
AMET DEEMED TO BE UNIVERSITY has successfully completed the training course of 30 hours in

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during the academic year 2018- 2019 (Odd Sem) at AMET Deemed to be University.


Mr. R. Pufushothaman
CEO/Founder

Electronics Platform Research Labs
Chennai



Dr. T. Sasilatha
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Certificate of Completion

This is to certify that Mr. **MAHESH.WARAN.A** **II** YEAR **EEE - MARINE** of

..... **AMET DEEMED TO BE UNIVERSITY** has successfully completed the training course of 30 hours in
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This is to certify that Mr. **NAVIN ANANDH** **II** YEAR, **EEE** **MARINE** of

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This is to certify that Mr. ARUN P. II YEAR, 1...EEE... - MARINE..... of

..... AMET DEEMED TO BE UNIVERSITY.....

has successfully completed the training course of 30 hours in
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Certificate of Completion

This is to certify that Mr. MOHAMMED SHUAIB K. II YEAR ... EEE ... MARINE of

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has successfully completed the training course of 30 hours in
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This is to certify that Mr. HARI HARAN N. II YEAR EEE - MARINE of

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This is to certify that Mr/Ms. **VINNARASI V** **II YEAR, EEE**.....of
AMET DEEMED TO BE UNIVERSITY.....

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This is to certify that Mr. PRADEEP M. I YEAR, EEE - MARINE of

..... AMET DEEMED TO BE UNIVERSITY has successfully completed the training course of 30 hours in
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This is to certify that Mr. NIRMAL KUMAR B II YEAR EEE - MARINE of

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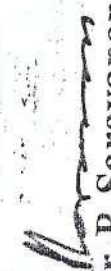
Electronics Platform Research Labs (EPR Labs)

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This is to certify that Mr. SIVARAMAN ... IIIrd YEAR, EEE(M), STUDENT of
AMET DEEMED TO BE UNIVERSITY, CHENNAI has successfully completed
the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform
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This is to certify that Mr. *OSWIN SANCHIDRAN*, *IIIrd YEAR, EEE(M)*, *STUDENT* of
AMET DEEMED TO BE UNIVERSITY, CHENNAI.....has successfully completed
the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform
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This is to certify that Mr. GHORAKAVI LAKSHMI PRASANNIA KUMAR, D^{ist} ya., EEE(M), of
AMET DEEMED TO BE UNIVERSITY, CHENNAI, has successfully completed
the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform
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This is to certify that Mr. AKSHAI, IIIrd YEAR, EEE (M) STUDENT of
AMET DEEMED TO BE UNIVERSITY, CHENNAI has successfully completed
the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform
Research Labs (EPR Labs), during the academic year 2017- 2018 (Odd Sem) at AMET Deemed to be University.

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This is to certify that Mr. VIGNESH K. IIIrd YEAR, EEE(MARINE), of
..... AMET DEEMED TO BE UNIVERSITY, CHENNAI, has successfully completed
the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform
Research Labs (EPR Labs), during the academic year 2017- 2018 (Odd Sem) at AMET Deemed to be University.

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This is to certify that Mr.. **MATHANDEEPU.M...** **IIIrd YEAR.EEE(M)** **STUDENT**...of

.....AMET...DEEMED TO BE...UNIVERSITY...CHENNAI.....has successfully completed

the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform Research Labs (EPR Labs), during the academic year 2017- 2018 (Odd Sem) at AMET Deemed to be University.

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This is to certify that Mr. BASKAR M., IVth YEAR EEE (M), STUDENT of
AMET DEEMED TO BE UNIVERSITY, CHENNAI.....has successfully completed
the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform
Research Labs (EPR Labs), during the academic year 2017- 2018 (Odd Sem) at AMET Deemed to be University.

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Certificate of Completion

This is to certify that Mr. **YASHWANTH S. VIrd YEAR. EEE(M). STUDENT** of
AMET DEEMED TO BE UNIVERSITY, CHENNAI has successfully completed
the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform
Research Labs (EPR Labs), during the academic year 2017- 2018 (Odd Sem) at AMET Deemed to be University.



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Certificate of Completion

This is to certify that Mr... **RAJKUMAR E. IIIrd YEAR, EEE(M)**... **STUDENT**... of
AMET DEEMED TO BE UNIVERSITY, CHENNAI... has successfully completed
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Certificate of Completion

This is to certify that Mr. **ATHITHKUMAR L. IVth YEAR, EEE(1st), STUDENT** of **AMET DEEMED TO BE UNIVERSITY, CHENNAI**,has successfully completed the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform Research Labs (EPR Labs), during the academic year 2017- 2018 (Odd Sem) at AMET Deemed to be University.

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This is to certify that Mr. SURYAKUMAR A. IIIrd YEAR, EEE(M), STUDENT of
AMET DEEMED TO BE UNIVERSITY, CHENNAI.....has successfully completed
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Certificate of Completion

This is to certify that Mr. **AASHLYN MOSSAS ANANDY, IIIrd YEAR EEE(M), STUDENT of**
AMET DEEMED TO BE UNIVERSITY, CHENNAI.....has successfully completed
the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform
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Certificate of Completion

This is to certify that Mr... *ALLWIN... RENOLD... S... IIIrd YEAR... EEE(M)... STUDENT...* of
AMET... DEEMED... TO BE... UNIVERSITY, CHENNAI... has successfully completed
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This is to certify that Mr. ANANTHAN..... IIIrd YEAR, EEE(M).... STUDENT.... of
..AMET DEEMED TO BE UNIVERSITY, CHENNAI..... has successfully completed
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This is to certify that Mr. DIVINS SORIS, IIIrd YEAR, EEE(17) STUDENT.....of

AMET DEEMED TO BE UNIVERSITY, CHENNAI.....has successfully completed

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This is to certify that Mr. INGARAJ I. IIIrd YEAR, EEE(M), STUDENT of

AMET DEEMED TO BE UNIVERSITY, CHENNAI..... has successfully completed the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform Research Labs (EPR Labs), during the academic year 2017- 2018 (Odd Sem) at AMET Deemed to be University.

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This is to certify that Mr. JAYA KRISHNAN. K., IIIrd YEAR, EEE (M), STUDENT of
AMET DEEMED TO BE UNIVERSITY, CHENNAI.....has successfully completed
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This is to certify that Mr. ~~JAYA~~ KUMAR...M...IIIrd YEAR...EEE (M)...STUDENT...of
...AMET...DEEMED TO BE...UNIVERSITY...CHENNAI...has successfully completed
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Certificate of Completion

This is to certify that Mr. JOSEPH MELVIN B. IIIrd YEAR, EEE (M), STUDENT..... of
AMET DEEMED TO BE UNIVERSITY, CHENNAI..... has successfully completed
the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform
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Mr. R. Purushothaman
CEO/Founder
Electronics Platform Research Labs
Chennai

Dr. T. Sasilatha
Dean-EEE

Dr. P. Saravanan
Registrar



AMET

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Celebrating
25
years

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
VALUE ADDED TRAINING PROGRAM

PRODUCT DEVELOPMENT USING MCU

in association with

Electronics Platform Research Labs (EPR Labs)

Certificate of Completion

This is to certify that Mr. **MANIKANDAN . N. 3rd YEAR, EEE(M), STUDENT of**
AMET DEEMED TO BE UNIVERSITY CHENNAI

has successfully completed
the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform
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VALUE ADDED TRAINING PROGRAM

on

PRODUCT DEVELOPMENT USING MCU

in association with

Electronics Platform Research Labs (EPR Labs)

Certificate of Completion

This is to certify that Mr. NANDHAKUMAR G. 1ST YEAR, EEE(M) STUDENT of

AMET DEEMED TO BE UNIVERSITY, CHENNAI has successfully completed

the training course of 30 hours in "Product Development Using MCU" in association with Electronics Platform

Research Labs (EPR Labs), during the academic year 2017- 2018 (Odd Sem) at AMET Deemed to be University.

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