AMET
ACADEMY OF MARITIME EDUCATION AND TRAINING

DEEMED TO BE UNIVERSITY
(Under Section 3 of UGC Act 1956)

REPORT

on

VALUE ADDED TRAINING PROGRAM

"SIMULATION OF ELECTRICAL CIRCUITS USING MATLAB"

Organized By

Department of Electrical and Electronics Engineering

In Collaboration with

LABTECH ELECTRONICS PVT.LTD

Date: JANUARY 2020- MAY 2020

Venue:

AMET Deemed to be University

Convener

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

Co-Ordinators

Dr. V. Karthikeyan, Professor

The Department of Electrical and Electronics Engineering of AMET Deemed to be University has organized Value Added Training Programme on "Simulation Of Electrical Circuits Using Matlab" during January 2020 to May 2020 at AMET Deemed to be University in collaboration with Labtech Electronics Pvt Ltd. 24 students from 2nd years B.E (Electrical and Electronics Engineering-Marine) of Batch-11 attended the training programme.

The event started on 7th January 2020 at AMET Deemed to be University, @ 9.00 AM with the overview by the Labtech 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 Labtech team. The training was conducted from 9.00AM to 4.30PM on every day. For all the day's students were undertaken the theory as well as the hands-on practical sessions. During the practical sessions, students were provided with the separate system for practice. On May 2019, the training programme was ended with the feedback session.

The contents of the programme are as follows:

➢ Basic operations on Matrices.

➢ Generation of various signals and sequences, such as Unit Impulse, Step, Square, Saw tooth, Triangular, Sinusoidal, Ramp etc.

➢ Study of Ohm's law and Kirchhoff's law.

➢ Study of measurement of voltage, current and power in series and parallel circuits.

➢ Mesh and Nodal Analysis of Electrical Circuits.

➢ Transient responses of Series RLC circuits.

➢ Study the characteristics of diode.

➢ Single phase half wave diode rectifier.

➢ Single phase full wave diode bridge rectifier.

➢ Three phase half wave diode rectifier.

➢ Implementation of combinational circuits using logic gates.

➢ Implementation of counters using flip flops.

Feedback by the students:

➢ The students of second year valued the training programme since hands-on experience was given by the Labtech training team.

➢ The students are well aware about the MATLAB Simulink.

➢ The student's skills are amended since they learned how to design a simple electrical circuits with MATLAB Simulink.
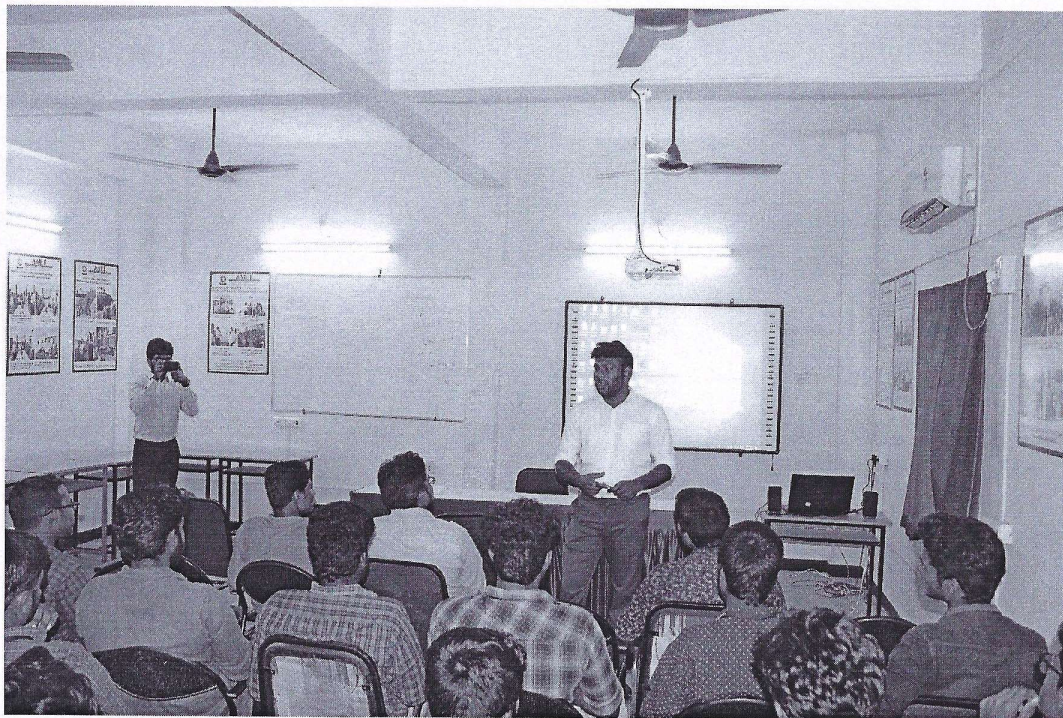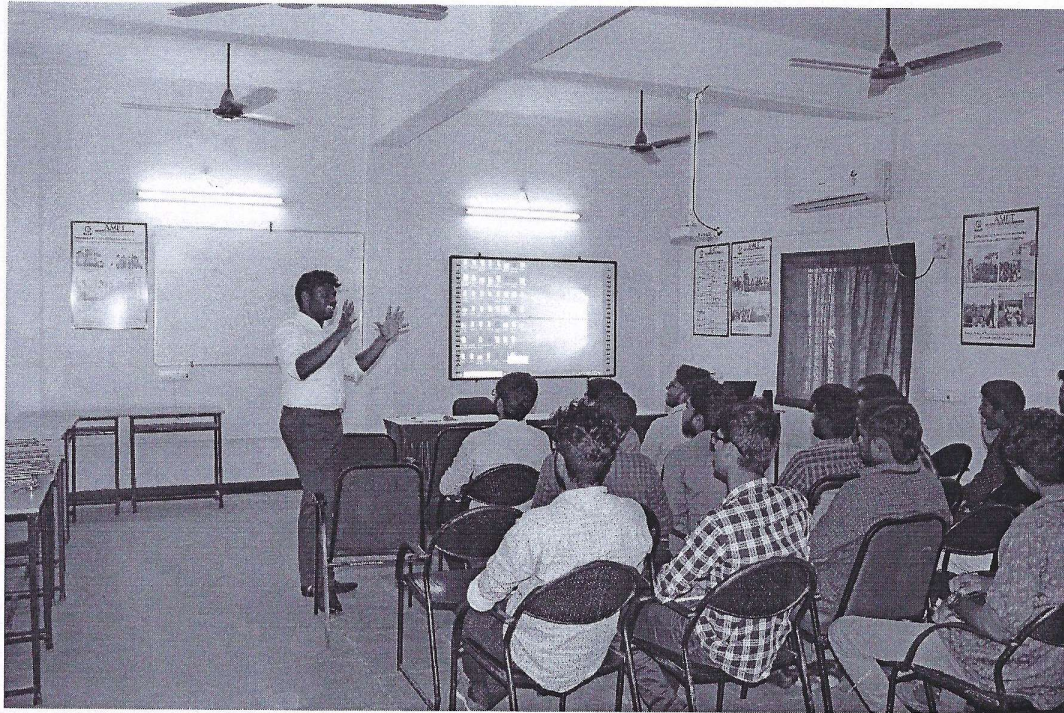
The following students attended the training programme.

II Year EEE

S.No	Roll No	Reg. No	Student Name
1	EE383	AEE18001	ADHARSH B A
2	EE384	AEE18002	AKASH P SANTOSH
3	EE385	AEE18003	AUSTIN JEBARAJ S
4	EE386	AEE18004	BALAJI M
5	EE387	AEE18005	BIJU BENHER J
6	EE389	AEE18007	GOKULRAJ R
7	EE390	AEE18008	JAYALAL.J
8	EE391	AEE18009	ANANDU K
9	EE392	AEE18010	KRISHNA KANT UPADHYAY
10	EE393	AEE18011	MANOJ V
11	EE395	AEE18013	PRABHUL B
12	EE396	AEE18014	PRADEEP KUMAR R
13	EE397	AEE18015	RAJEEV ARAVIND A
14	EE398	AEE18016	S SAI HARI
15	EE399	AEE18017	SETHU SUNDAR V
16	EE401	AEE18019	TAMILSELVAN D
17	EE402	AEE18020	VENGADESHWARA RAO S
18	EE403	AEE18021	VINU DHARMENDAR P
19	EE404	AEE18022	S VOMSI
20	EE406	AEE18024	JAIN JAMES
21	EE441L	AEE18025L	AMUTHAN.A

22	EE442T	AEE18026T	KULKARNI MAHIMA RAJESH
23	EE445L	AEE18027L	DINESH.M
24	REE307	AEE16011	KARAN R K

Some of the photographs are attached

Simulation of Electrical Circuits Using Matlab by Labtech Electronics Pvt.Ltd.
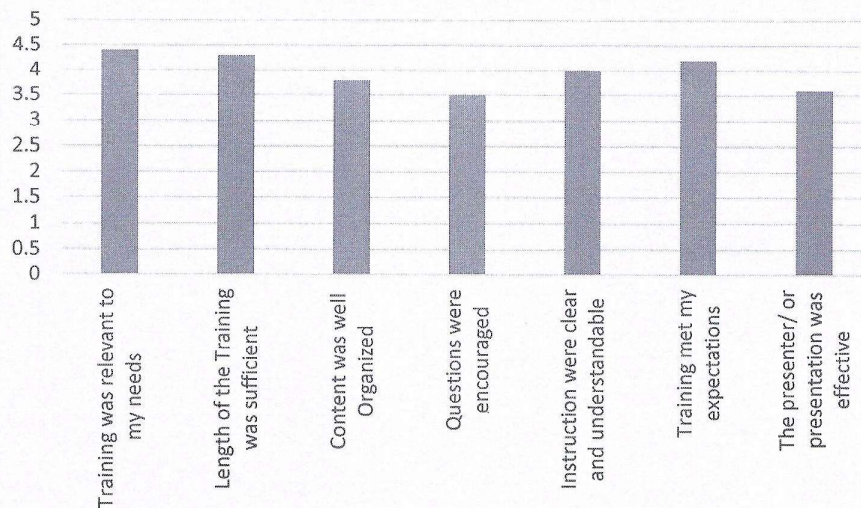
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED TRAINING PROGRAM

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FEEDBACK ANALYSIS

Action Taken: Found Satisfactory

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	Excellent	Very Good	Good	Average
Training was relevant to my needs	✓			
Length of the Training was sufficient	✓			
Content was well organized	✓			
Questions were encouraged		✓		
Instruction were clear and understandable		✓		
Training met my expectation	✓			
The presenter/ presentation was effective	✓			
	✓			

Other Comments

(Please give us your rating for Excellent (5), Very Good (4), Good (3), Average (2))

S. Austin Jebaraj
Signature

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M. ____

Signature

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J. ~~Bijubenher~~

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R. Gokulraj

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K. anandu
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Krishnakumar

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V. menny

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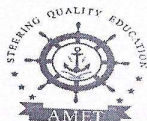## LABTECH Electronics Pvt.Ltd

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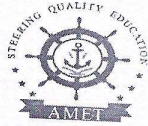### LABTECH Electronics Pvt.Ltd

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P. ~~signature~~

Signature