



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE DETAIL

ACADEMIC YEAR-2019-20 (EVEN)

1	Course Name	Design of Controllers using Labview
2	Course offered by	Pantech Pvt Ltd, Chennai
3	Co-Ordinator	Dr. Themozhi
4	Instructor	Mr. Malaippan, Pantech Pro Ed Pvt Ltd
5	Course	-
6	Class	BE-EEE(Marine)
7	Number of Students per batch	47
8	Duration	30hrs
9	No. of Hrs /Week	3hrs/Week
10	Prerequisite	Basic Electrical, Electronics Engineering Knowledge
11	About the Course	Impart knowledge about Labview software with design of various controllers
12	Course Objective	To explain various Labview software
13	Course Outcome	Able to design controllers with help of Labview Software
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



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

Requesting to Conduct Value Added Training Program- Reg

Dr. V. Karthikeyan, Prof-EEE <karthikeyan.v@ametuniv.ac.in>
To: "Pantech Pvt Ltd," <senthikumar@pantech.com>

Wed, Jan 05, 2020 at 10.00 AM

Dear Dr. Karthikeyan

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

On Wed, Jan 04, 2020 at 5:58 PM Dr. V. Karthikeyan, Prof-EEE <karthikeyan.v@ametuniv.ac.in> wrote:

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

From: Dr. V. Karthikeyan, Prof-EEE <karthikeyan.v@ametuniv.ac.in>
Date: Wed, Jan 04, 2020 at 5:58 PM
Subject: Requesting to Conduct Value Added Training Program- Reg
To: "Pantech Pvt Ltd " <senthikumar@pantech.com>

Dear Sir,

Greetings from AMET!!!!

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

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

--

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

--

Proposal.docx
14K



ABOUT VALUE ADDED TRAINING PROGRAM

The purpose of the value added course is to design a controllers using LabVIEW and to do research projects. The course on Design of Controllers using LabView is has been framed for approximately 30 hours. These 30 hours of course module gives immense knowledge on LabVIEW software. Students will be able to design various controllers using the software. Students are also given extensive hands on training for designing a controllers circuits. This course will give a great impact to develop various controller design for different applications.

OBJECTIVES OF THE VALUE ADDED TRAINING PROGRAM:

Upon completion of this course, students will be able to:

1. To create files in Labview
2. To learn the data types in Labview
3. To learn the variables and functions in Labview
4. To learn the debugging tools in Labview
5. To learn the different control panels in Labview
6. To develop simple models using Labview

COURSE CONTENT:

1. Design and Simulation of Adder and multiplier using Labview
2. Design and simulation of mathematical expressions using Labview
3. Simulation of Logic Gates using Labview
4. Verification of DeMorgan's Law using Labview
5. Design and Simulation of Encoder and Decoder using Labview

6. Design and simulation of Multiplexer and Demultiplexers using Labview
7. Design and simulation of Parity checker using LabVIEW
8. Generation of different waveforms using Labview
9. Design and simulation temperature converter using Labview
10. Design and Simulation of Amplitude and frequency measurement using Labview
11. Design and simulation of PID controller using Labview
12. Design and simulation of LED Display using Labview

COURSE OUTCOME

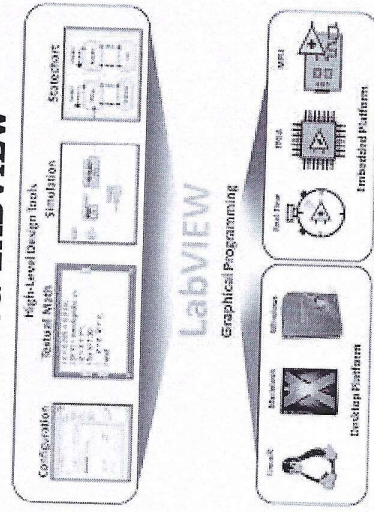
After completion of the course, students will

1. Handle the different data types and controls
2. Use Graphs and charts
3. Recognize and Edit the syntax
4. Develop and test models using digital gates
5. Develop and test models using control structures and functions.
6. Develop and test Data acquisition systems.

ASSESSMENT METHOD

The value added course on Design of Controllers using LABVIEW, which includes direct teaching, assignments and hands on training. Assignments and projects will be given to the students to calibrate and to provide the certificate. Students who will complete this courses module will be eligible for a certificate.

VALUE ADDED TRAINING PROGRAM ON DESIGN OF CONTROLLERS USING LABVIEW



Organized by

**DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING**

In association with



PANTECH PRO ED PVT.LTD

PROGRAM	B.E-Electrical and Electronics Engineering - Marine				
Course Code: UDVCC12	Lab view based Virtual Data Acquisition Laboratory	L	T	P	C
		0	0	2	0
Year and Semester	III Year / VI Semester	Contact hours per week (2Hrs)			
Prerequisite course	Basic Programming terminology				
Course Objectives	1. To create files in Labview 2. To learn the data types in Labview 3. To learn the variables and functions in Labview 4. To learn the debugging tools in Labview 5. To learn the different control panels in Labview 6. To develop simple models using Labview				
Course Outcomes	After completion of the course, the students will be able to 1. Handle the different data types and controls 2. Use Graphs and charts 3. Recognize and Edit the syntax 4. Develop and test models using digital gates 5. Develop and test models using control structures and functions. 6. Develop and test Data acquisition systems.				
LIST OF EXPERIMENTS: 1. Design and Simulation of Adder and multiplier using Labview 2. Design and simulation of mathematical expressions using Labview 3. Simulation of Logic Gates using Labview 4. Verification of Demorgan's Law using Labview 5. Design and Simulation of Encoder and Decoder using Labview 6. Design and simulation of Multiplexer and Demultiplexer using Labview 7. Design and simulation of Parity checker using labview 8. Generation of different waveforms using Labview 9. Design and simulation temperature converter using Labview 10. Design and Simulation of Amplitude and frequency measurement using Labview 11. Design and simulation of PID controller using Labview 12. Design and simulation of LED Display using Labview					
					Total :30 hours



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

REPORT

on

VALUE ADDED TRAINING PROGRAM

“DESIGN OF CONTROLLERS USING LABVIEW”

Organized By
Department of Electrical and Electronics Engineering

In Collaboration with



Pantech ProEd 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. T. Themozhi, Professor



AMET

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

The Department of Electrical and Electronics Engineering of AMET Deemed to be University has organized Value Added Training Programme on “Design of Controllers using Labview” during January 2020 to May 2020 at AMET Deemed to be University in collaboration with Labtech Electronics Pvt Ltd. 47 students from 3rd years B.E (Electrical and Electronics Engineering-Marine) of Batch-11 attended the training programme.

The event started on 10th January 2020 at AMET Deemed to be University, @ 9.00 AM with the overview by the Pantech 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 Pantech 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 system for practice. On May 2019, the training programme was ended with the feedback session.

The contents of the programme are as follows:

1. Design and Simulation of Adder and multiplier using Labview
2. Design and simulation of mathematical expressions using Labview
3. Simulation of Logic Gates using Labview
4. Verification of DeMorgan's Law using Labview
5. Design and Simulation of Encoder and Decoder using Labview
6. Design and simulation of Multiplexer and Demultiplexers using Labview
7. Design and simulation of Parity checker using LabVIEW
8. Generation of different waveforms using Labview
9. Design and simulation temperature converter using Labview
10. Design and Simulation of Amplitude and frequency measurement using Labview
11. Design and simulation of PID controller using Labview
12. Design and simulation of LED Display using Labview

Feedback by the students:

- The students of third year valued the training programme since hands-on experience was given by the Pantech training team.
- The students are well aware about the LabVIEW software.
- The student's skills are amended since they learned how to design a controllers using LabVIEW.

The following students attended the training programme.

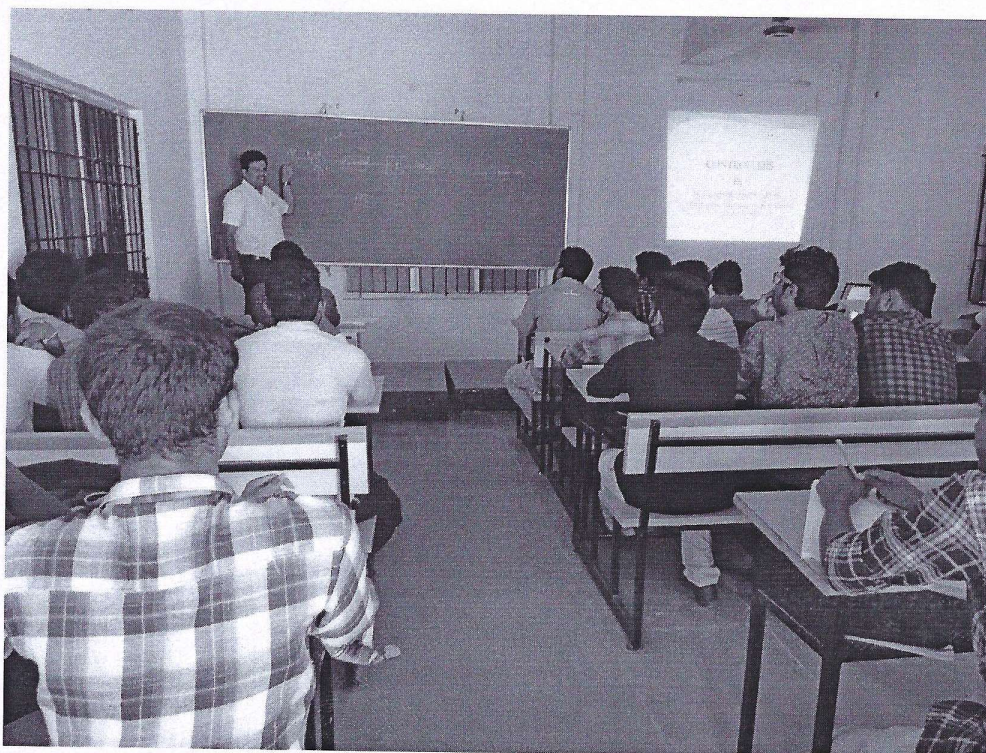
III Year EEE- Marine

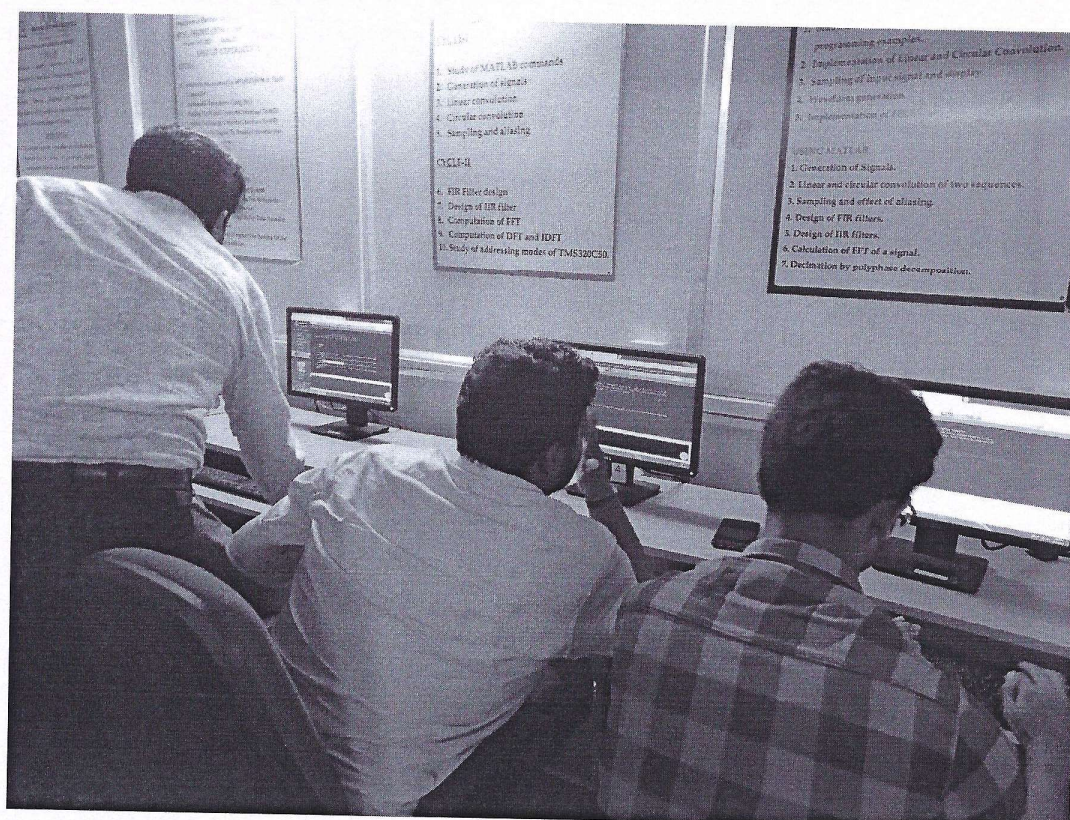
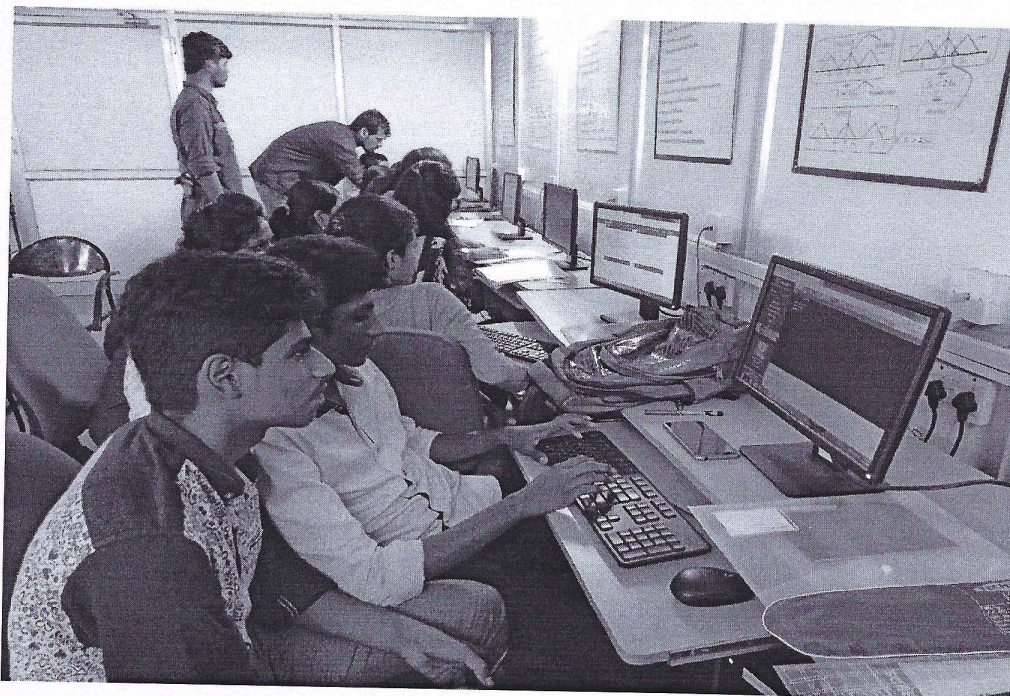
S.No	Roll No	Reg. No	Student Name
1	EE329	AEE17001	VINNARASI V
2	EE330	AEE17002	AAGASH G
3	EE331	AEE17003	ABHISHEK M DEEPAK
4	EE332	AEE17004	ADARSH P
5	EE333	AEE17005	AKASH K
6	EE335	AEE17007	ARUN P
7	EE336	AEE17008	ARUN KUMAR K S
8	EE337	AEE17009	BALA GANESH P
9	EE338	AEE17010	BALAJI M
10	EE339	AEE17011	BALAMURUGAN K
11	EE340	AEE17012	BRIJESH C R
12	EE341	AEE17013	P DHANASEKAR
13	EE342	AEE17014	DINESH R
14	EE343	AEE17015	DURAIPANDI A
15	EE344	AEE17016	HARIHARAN N

16	EE345	AEE17017	I HASHEEM SHARIFF
17	EE346	AEE17018	HEMANTH RAJ R
18	EE347	AEE17019	JAYA SURYA G
19	EE348	AEE17020	KARTHICK R
20	EE350	AEE17022	MAHESHWARAN A
21	EE351	AEE17023	MANIVANNAN DS
22	EE352	AEE17024	MANOJ C K
23	EE353	AEE17025	MANOJ KUMAR R
24	EE354	AEE17026	MOHAMED NAJEEM N
25	EE355	AEE17027	MOHAMED YASEER N
26	EE356	AEE17028	MOHAMMED AZHAIR M S
27	EE357	AEE17029	MOHAMMED SHUAIB K
28	EE358	AEE17030	NAVEEN B
29	EE359	AEE17031	NAVEEN P
30	EE360	AEE17032	NAVIN ANAND
31	EE361	AEE17033	NIRMAL KUMAR B
32	EE362	AEE17034	PRADEEP M
33	EE363	AEE17035	PURUSHOTHAMAN N
34	EE364	AEE17036	RUDRAN V
35	EE365	AEE17037	SANTHOSH B
36	EE368	AEE17040	SUDARSHAN K

37	EE369	AEE17041	SURYA PRASAD A
38	EE370	AEE17042	UDHAYAKUMAR A
39	EE372	AEE17044	VENKATESAN K
40	EE374	AEE17046	YOGESH KUMAR A
41	EE375	AEE17047	VIGNESH K
42	EE377	AEE17048	SRIDHAR
43	EE378	AEE17049	PRATIK KUMAR GUPTA
44	EE379	AEE17050	JOEL ROFOTOPOLOS RODRIGUES DA COSTA MESTRE
45	EE380L	AEE17051L	EZHIL ARASAN R
46	EE381L	AEE17052L	VEERAPATHIRAN M C
47	EE382L	AEE17053L	VIKNESE S

Some of the photographs are attached





Design of Controllers Using Labview by Pantech ProEd Pvt.Ltd.