KANDULA SRINIVASA REDDY MEMORIAL COLLEGE OF ENGINEERING (AUTONOMOUS)

KADAPA-516003. AP

(Approved by AICTE, Affiliated to JNTUA, Ananthapuramu, Accredited by NAAC)

(An ISO 9001-2008 Certified Institution)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



Certification Course

On

"Lab view Programming"

Resource Persons : Dr.M.V.Narayana, Prof, Dept. of ECE, KSRMCE

Sri.G.Suneel kumar, Asst.Professor,Dept. of ECE.KSRMCE

Course Coordinators: Smt. C. Chandrakala, Asst. Prof, Dept. of ECE, KSRMCE

Sri. M.Ramamurthy naik, Asst. Prof, Dept. of ECE, KSRMCE

Duration : 02nd July 2018 to 21st July 2018



(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India-516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

Lr./KSRMCE/ECE/2018-19/

Date:30-06-2018

To The Principal, KSRMCE, Kadapa.

Respected Sir,

Sub: Permission to Conduct Certification Course on "Lab view Programming"

02nd July 2018 to 21st July 2018-Req- Reg.

The Department of Mechanical Engineering is planning to offer a Certification Course on "Lab view Programming" to B. Tech. students. The course will be conducted from 02nd July 2018 to 21st July 2018. In this regard, I kindly request you to grant permission to conduct Certification Course.

Thanking you sir,

Social to the

Yours faithfully,

(Smt.C.Chandrakala, Asst.Prof, ECE)

V.S.S. Mm/y

K.S.R.M. COLLEGE OF ENGINEERING KADAPA-516005, (A.P.)



(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India-516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

Cr./KSRMCE/ECE/2018-19/

Date:01/07/2018

Circular

The Department of Electronics and Communication Engineering is offering a Value Added Course on "Lab view Programming" from 02nd July 2018 to 21st July 2018 to B.Tech students. In this regard, interested students are requested to register their names for the Certification Course with Course Coordinator.

For further information contact Course Coordinator.

Course Coordinator: Smt.C.Chandrakala, Assistant Professor, Dept. of ECE

Dept. of ECE

Professor & H.O.D. Department of E.C.E. K.S.R.M. College of Engineering

KADAPA - 516 003

Cc to:

IQAC-KSRMCE



(UGC-AUTONOMOUS) Kadapa, Andhra Pradesh, India— 516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

Date:

DEPARTMENT OF ECE REGISTRATION FORM

Certification Course

On

"Lab View Programming" From 02/07/2018 to 21/07/2018

S.No	Full Name	Roll Number	Branch	Semester	Signature

		and the second second second second	the second second second second
	12.36		

Coordinators

HoD



(UGC-AUTONOMOUS) Kadapa, Andhra Pradesh, India– 516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

DEPARTMENT OF ECE **REGISTRATION FORM**

Certification Course On "Lab View Programming" From 02/07/2018 to 21/07/2018

S.No	Full Name	Roll Number	Branch	Semester	Signature
1	ADUNUKOTA BHAVANA	159Y1A0401	ECE	VII SEM	Phys
2	AKULA PRUDHVIRAJ	159Y1A0403	ECE	VII SEM	Pridher.
3	ALLU RAGA PREETHI	159Y1A0405	ECE	VII SEM	AR.RU
4	AMBAVARAM BHARGAVI	159Y1A0407	ECE	VII SEM	A. Baraji
5	ANDHURI KAVITHA	159Y1A0409	ECE	VII SEM	Kavitha
6	BACHU MOUNIKA	159Y1A0412	ECE	VII SEM	Mounika
7	BATHALA GOPINATH	159Y1A0413	ECE	VII SEM	Mount lea
8	BHEEMARAJUGARI SRAVANI	159Y1A0416	ECE	VII SEM	SRAVANI
9	BHOJANAPU ASWANI	159Y1A0417	ECE	VII SEM	Aswanz
10	BOJJA VINOD	159Y1A0419	ECE	VII SEM	VINSED
11	C MANASA	159Y1A0420	ECE	VII SEM	MOSTED
12	CHANDA SWATHI	159Y1A0422	ECE	VII SEM	Swaths
13	CHILAKALA VIJAYA LAKSHMI	159Y1A0424	ECE	VII SEM	LAENMY
14	CHINASANI MOUNIKA	159Y1A0425	ECE	VII SEM	mounika
15	CHINTAPANTI PRATIBA	159Y1A0427	ECE	VII SEM	C. Postibo
16	CHINTHAKAYALA VENKATA RAVI KIRAN	159Y1A0428	ECE	VII SEM	Vian
17	JAMMANA SAINATH REDDY	159Y1A0451	ECE	VII SEM	SAINATH
18	JANGITI SWETHA	159Y1A0452	ECE	VII SEM	Sull
19	K MD ANEES PASHA	159Y1A0454	ECE	VII SEM	PASHA
20	K SAI MURALI MOHAN	159Y1A0455	ECE	VII SEM	MOHOW
21	KALLURSHAIK KARIMULLA	159Y1A0458	ECE	VII SEM	KARIMUII
22	KATAM PAVAN	159Y1A0460	ECE	VII SEM	PAVAL

	KUMAR REDDY				C
23	KAVALI CHINNAREDDEIAH	159Y1A0463	ECE	VII SEM	Cero
24	KODI VENKATA NAGA VARUN	159Y1A0464	ECE	VII SEM	Deg Van
25	KOLA MOUNIKA	159Y1A0465	ECE	VII SEM	M
26	KONDA NAGASUBBA REDDY	159Y1A0467	ECE	VII SEM	Naga Suly
27	KONDURU VINAY KUMAR	159Y1A0469	ECE	VII SEM	venay
28	KUPPAM SRINIVASULA REDDY	159Y1A0471	ECE	VII SEM	Sninnest
29	PALAGIRI RAKESH	159Y1A04A0	ECE	VII SEM	Ventula
30	PALAVALI VENKATA KAVYA	159Y1A04A1	ECE	VII SEM	Vembr
31	PATTAN ASIF ALI KHAN	159Y1A04A3	ECE	VII SEM	Paul
32	PEDDIREDDY HARI KRISHNA REDDY	159Y1A04A6	ECE	VII SEM	Peddy
33	PENDYALA HEMA LATHA	159Y1A04A7	ECE	VII SEM	PHU
34	PIKKILI YAMUNA	159Y1A04A8	ECE	VII SEM	Peul ge
35	SHAIK AKRAM JAAVEED	159Y1A04C5	ECE	VII SEM	Suc

Coordinators

HoD Professor & H.O.D. Department of E.C.E.

K.S.R.M. College of Engineering KADAPA - 516 093

COURSE OBJECTIVES: The main objectives of this course are:

- 1. Develop virtual instruments for specific application using Lab VIEW software.
- 2. Ease the programming required to make computer interact with real world.
- 3. To acquire, analyze and display the throughput of any compactable system.
- 4. Knowledge to connect with third party software and hardware.

COURSE OUTCOMES: At the end of this course the student will be able to:

- 1. Create Virtual Instrument using LabVIEW software for various fields of applications like Control system, Signal Processing and Image processing etc.
- 2. Create effective Virtual Instrument that shall use minimum memory space and work effectively with any processor.
- 3. Interface the computer with DAQ to monitor process and control real world applications.
- 4. Analyze the throughput using the tools in Lab VIEW software

UNIT-I: VIRTUAL INSTRUMENTATION: An introduction, Historical perspective, advantages, blocks diagram and architecture of a virtual instrument, data-flow techniques, graphical programming in data flow, comparison with conventional programming.

UNIT-II: PROGRAMMING TECHNIQUES: VIs and sub-VIs, loops and charts, arrays, clusters and graphs, case and sequence structures, formula nodes, local and global variables, string and file I/O, Instrument Drivers, and math script.

UNIT-III: INTERFACE REQUIREMENTS: Common Instrument Interfaces: Current loop, RS 232C/ RS485, GPIB. Bus Interfaces: USB, PCMCIA, VXI, SCSI, PCI, PXI, Firewire. PXI system controllers, Ethernet control of PXI, VISA and IVI, Data Acquisition Hardware.

UNIT-IV: APPLICATION OF VIRTUAL INSTRUMENTATION: Application of Virtual Instrumentation: Instrument Control using RS-232C and IEEE488, Development of Virtual Instrument using GUI, Real time systems, Embedded Controller, OPC, Active X programming, publishing measurement data in the web.

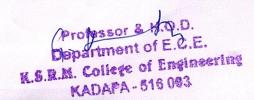
UNIT-V: TOOLSETS: Distributed I/O modules, Control Design and Simulation, Digital Signal processing tool kit, Image acquisition and processing, Motion control.

TEXTBOOKS:

- 1. LabVIEW Graphical Programming, Gary Johnson, Second edition, McGraw Hill, New York, 1997.
- 2. LabVIEW for everyone, Lisa K. wells & Jeffrey Travis Prentice Hall, New Jersey, 1997. R-19 Syllabus for EIE. JNTUK w. e. f. 2019-20

REFERENCES:

- 1. PC Interfacing and Data Acquisition: Techniques for Measurement, Instrumentation and Control, Kevin James, Newnes, 2000.
- 2. LabVIEW advanced programming technique, Rick Bitter, 2ndEdition, CRC Press, 2005
- 3. Virtual Instrumentation using LabVIEW, Jovitha Jerome, 1stEdition, PHI,2001.





(UGC-AUTONOMOUS) Kadapa, Andhra Pradesh, India– 516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

SCHEDULE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Certification Course

On

"Lab View Programming" From 02nd July 2018 to 21st July 2018

Date	Timing	Resource Person	Topic to be covered
02/07/2018	3 PM to 4PM	Dr.M.V.Narayana	UNIT-I
			VIRTUAL
			INSTRUMENTATION: An
			introduction, Historical perspective.
02/07/2018	4PM to 5PM	Sri. G.Suneel kumar	Advantages, blocks diagram and
			architecture of a virtual instrument,
03/07/2018	3 PM to4PM	Dr.M.V.Narayana	Data-flow techniques, graphical
			programming in data flow,
03/07/2018	4PM to 5PM	Sri. G.Suneel kumar	Comparison with conventional
			programming
04/07/2018	3 PM to4PM	Dr.M.V.Narayana	UNIT-II: PROGRAMMING
			TECHNIQUES:
			VIs and sub-VIs, loops and charts,
			arrays,
04/07/2018	4PM to 5PM	Sri. G.Suneel kumar	clusters and graphs, case and
			sequence structures
05/07/2018	3PM to 4PM	Dr.M.V.Narayana	formula nodes
05/07/2018	4PM to 5PM	Sri. G.Suneel kumar	local and global variables,
06/07/2018	2PM to 4PM	Dr.M.V.Narayana	String and file I/O,
09/07/2018	4PM to 5PM	Sri. G.Suneel kumar	Instrument Drivers, and math script
10/07/2018	2PM to 4PM	Dr.M.V.Narayana	UNIT-III: INTERFACE
			REQUIREMENTS: Common
			Instrument Interfaces:
10/07/2018	4PM to 5PM	Sri. G.Suneel kumar	Current loop, RS 232C/ RS485,
11/07/2018	3PM to 4PM	Dr.M.V.Narayana	GPIB measurement data in the web
11/07/2018	4PM to 5PM	Sri. G.Suneel kumar	Bus Interfaces: USB, PCMCIA,
12/07/2018	2PM to 4PM	Dr.M.V.Narayana	VXI, SCSI, PCI, PXI,

13/07/2018	3PM to 5PM	Sri. G.Suneel kumar	Firewire. PXI system controllers,
14/07/2018	2PM to 4PM	Dr.M.V.Narayana	Ethernet control of PXI, VISA and
14/07/2018	4PM to 5PM	Sri. G.Suneel kumar	IVI. Data Acquisition Hardware.
16/07/2018	2PM to 4PM	Dr.M.V.Narayana	UNIT-IV: APPLICATION OF
		•	VIRTUAL
			INSTRUMENTATION:
			Application of Virtual
			Instrumentation
16/07/2018	4PM to 5PM	Sri. G.Suneel kumar	Instrument Control using RS-232C and IEEE488,
17/07/2018	3PM to 4PM	Dr.M.V.Narayana	Development of Virtual Instrument using GUI,
17/07/2018	4PM to 5PM	Sri. G.Suneel kumar	Real time systems.
18/07/2018	2PM to 4PM	Dr.M.V.Narayana	Embedded Controller.
18/07/2018	4PM to 5PM	Sri. G.Suneel kumar	OPC,
19/07/2018	2PM to 4PM	Dr.M.V.Narayana	Active X programming, publishing
19/07/2018	4PM to 5PM	Sri. G.Suneel kumar	UNIT-V: TOOLSETS: Distributed
			I/O modules,
20/07/2018	3PM to 4PM	Dr.M.V.Narayana	Control Design and Simulation
20/07/2018	4PM to 5PM	Sri. G.Suneel kumar	Digital Signal processing tool kit,.
21/07/2018	2PM to 4PM	Dr.M.V.Narayana	Image acquisition and processing, Motion control
21/07/2018	4PM to 5PM	Sri. G.Suneel kumar	Wouldn control
21/0//2016	71 101 10 31 101	Dr.M.V.Narayana	Valedictory

Resource Person(s)

Coordinator(s)

G. H. M. HOD Professor & H.O.D.

Department of E.C.E. K.S.R.M. College of Engineering KADAPA - 516 093.



(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India-516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Attendance sheet of Certification Course

On "Lab View Programming" From 02nd July 2018 to 21st July 2018

S. No	Roll No.	Name	0 2 7 0 7 2 0 1 8	0 3 / 0 7 / 2 0 1 8	0 4 / 0 7 / 2 0 1 8	0 5 7 0 7 2 0 1 8	0 6 / 0 7 / 2 0 1 8	0 9 / 0 7 / 2 0 1 8	1 0 / 0 7 / 2 0 1 8	1 1 0 7 / 2 0 1 8	1 2 / 0 7 / 2 0 1 8	.1 3 / 0 7 / 2 0 1 8	1 4 / 0 7 / 2 0 1 8	1 6 / 0 7 / 2 1 0 8	1 7 / 0 7 / 2 0 1 8	1 8 / 0 7 / 2 0 1 8	1 9 / 0 7 / 2 0 1 8	2 0 / 0 7 / 2 0 1 8	2 1 / 0 7 / 2 0 1 8
	159Y1A0401	ADUNUKOTA BHAVANA (W)	P	P	P	P	1	P	P	P	P	P	P	P	A	P	P	P	P
	159Y1A0403	AKULA PRUDHVIRAJ	A	P	P	P	P	P	P	P	P	1	P	P	P	P	P	P	P
	159Y1A0405	ALLU RAGA PREETHI (W)	D	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1)	P
	159Y1A0407	AMBAVARAM BHARGAVI (W)	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	159Y1A0409	ANDHURI KAVITHA (W)	A	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
Sheka.	159Y1A0412	BACHU MOUNIKA (W)	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P
	159Y1A0413	BATHALA GOPINATH	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
	159Y1A0416	BHEEMARAJUGARI SRAVANI (W)	A	P	P	P	1	P	P	P	P	P	A	P	P	1	P	P	P

	159Y1A0417	BHOJANAPU ASWANI (W)	P	P	A	P	10	P	P	P	P	P	A	P	P	P	P	P	P
	159Y1A0419	BOJJA VINOD	P	p	P	P	Ð	P	P	P	P	P	P	P	P	A	P	P	P
	159Y1A0420	C MANASA (W)	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	0	P
	159Y1A0422	CHANDA SWATHI (W)	p	P	P	P	A	P	P	P	P	P	A	P	P	Ð	P	9	P
	159Y1A0424	CHILAKALA VIJAYA LAKSHMI (W)	A	P	P	P	A	P	P	P	P	P	P	P	P	A	P	P	P
	159Y1A0425	CHINASANI MOUNIKA (W)	P	P	P	P	A	P	P	P	P	P	P	P	P	10	P	P	P
	159Y1A0427	CHINTAPANTI PRATIBA (W)	P	P	P	P	A	P	P	P	P	P	B	P	P	A	P	P	P
	159Y1A0428	CHINTHAKAYALA VENKATA RAVI KIRAN	P	P	P	P	P	P	P	P	p	P	G	P	P	A	P	P	P
	159Y1A0451	JAMMANA SAINATH REDDY	P	P	P	P	P	P	P	P	P	P	Ð	P	P	A	P	P	P
	159Y1A0452	JANGITI SWETHA (W)	A	P	P	P	A	P	P	P	P	A	P	P	P	A	P	P	P
	159Y1A0454	K MD ANEES PASHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
A Company	159Y1A0455	K SAI MURALI MOHAN	P	P	P	P	P	P	P	ρ	P	P	P	P	D	P	P	P	P
	159Y1A0458	KALLURSHAIK KARIMULLA	P	P	P	P	P	B	P	P	P	P	P	P	P	P	P	P	P
-0.00	159Y1A0460	KATAM PAVAN KUMAR REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	159Y1A0463	KAVALI CHINNAREDDEIAH	A	P	P	P	P	P	P	P	1	P	P	P	P	P	θ	P	1
	159Y1A0464	KODI VENKATA NAGA VARUN	A	1	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
	159Y1A0465	KOLA MOUNIKA (W)	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	0	P
	159Y1A0467	KONDA NAGASUBBA REDDY	P	P	P	P	P	P	8	A	P	P	P	P	1	P	P	P	P
	159Y1A0469	KONDURU VINAY KUMAR	8	P	P	P	P	P	P	P	P	P	P	P	1	P	0	D	P
	159Y1A0471	KUPPAM SRINIVASULA REDDY	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
	159Y1A04A0	PALAGIRI RAKESH	P	p	A	P	P	P	P	P	P	P	P	A	P	P	P	P	P
	159Y1A04A1	PALAVALI VENKATA KAVYA (W)	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
	159Y1A04A3	PATTAN ASIF ALI KHAN	P	1	D	•		1	10	0	0	N	P	P	f)	11	P	(1)	P

159Y1A04	A6 REDDY	" p	P	P	p	P	P	P	P	P	P	A	P	P	P	P	P	P
159Y1A04	PENDYALA HEMA LATI	P	P	P	P	P	P	P	P	7	A	P	P	P	P	P	A	P
159Y1A04		P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P
159Y1A04	4C5 SHAIK AKRAM JAAVEED	P	A	B	P	P	A	P	P	P	19	P	P	LP	P	P	P	

Coordinator(s)

Professor & H.O.D.
Department of E.C.E.

K.S.R.M. College of Engineering KADAPA - 516 093



K.S.R.M. COLLEGE OF ENGINEERING (UGC - Autonomous) Kadapa, Andhra Pradesh, India - 516003 Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.



Value Added Course on



Date: 02-07-2018 21-07-2018

LabVIEW

Dr. M. V. Narayana Professor, Dept. Of ECE

Sri. G. Suneel Kumar Asst.Professor, Dept. Of ECE

Venue





Coordinators

Resource Persons

Smt. C. Chandrakala Asst.Professor, Dept. Of ECE

Sri. M. Ramamurthy Naik Asst.Professor, Dept. Of ECE

P.V.S. Murali Krishna (Professor & Head)

CRILab

Dr. V.S.S. Murthy

Prof. A. MOHAN (Director)

Sri K. Sivananda Reddy spondent,Secretary,Treasurer)

Sri K. Madan Mohan Reddy

Sri S. Sankar Reddy



(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India-516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

Report

of

Certification Course on "LABVIEW Programming" From 02nd July 2018 to 21st July 2018

Target Group

B.Tech Students

Details of Participants

35 Students

Resource Person(s)

Dr.M.V.Narayana, Professor, Dept. of ECE

Sri.G.Suneel kumar, Asst. Professor, Dept. of ECE

Co-coordinator(s)

Smt .C. Chandrakala, Asst. Prof, Dept. of ECE

Sri .M.Ramamurthy Naik, Asst.Professor

Organizing Department

DEPARTMENT OF ECE

Venue

: CRI LAB

Description

•

:

:

Certification course on LABVIEW Programming- was organized by Dept. of ECE from 02-07-2018 to 21-07-2018. Dr.M.V.Narayana and Sri.G.Suneel Kumar acted as Course instructors. The basics and designing concepts of Lab view were covered in the course. Some of the sample projects have been practiced by the students.

Photos:

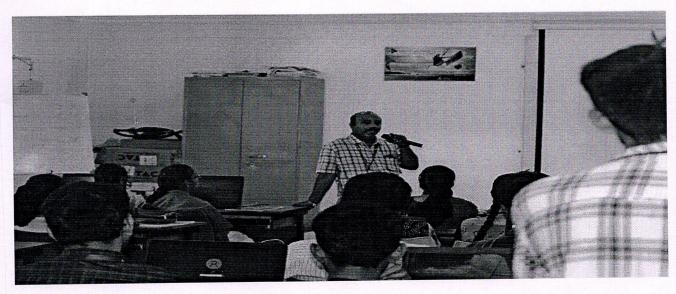


Fig: Resource person delivering the lecture.



Fig: Students listening the lecture.

C. Church led

HoD
Professor & H.O.D.
Department of E.C.E.

K.S.R.M. College of Engineering
KADAPA - 516 003

€ **@**•@_



KSRM COLLEGE OF ENGINEERING

UGC- AUTONOMOUS Approved by AICTE, New Delhi, Affiliated iliated to JNTUA, Ananthapuramu. Kadapa, Andhra Pradesh, India- 516003.

CERTIFICATE OF COMPLETION

-	This is to certify that Mr./Ms.	J. SWet	,ha	_ with
	roll no15	941A6452	has completed	the 🖔
	Certification Course on "Lab \	/iew Programming" froi	m 02-07-2018 to 2	1-07-
	2018 organized by Deparengineering.	rtment of Electronics	s and communic	cation
	Coordinator	HoD,ECE	V. S. S. My Principa	al S
1			72	



UGC- AUTONOMOUS Approved by AICTE, New Delhi, Affiliated iliated to JNTUA, Ananthapuramu. Kadapa, Andhra Pradesh, India- 516003.

CERTIFICATE OF COMPLETION

This is	s to certify t	hat N	/lr./Ms	<	avan			with
roll	no	15	971A0H60			has	completed	the
Certifi	ication Cours	se on	"Lab View Pr	ogra	mming" from	02-0	7-2018 to 21	-07-
2018	organized	by	Department	of	Electronics	and	communica	ation
engine	eering.							

Coordinator

HoD,ECE

Dringing

Principal

Do: 6



UGC- AUTONOMOUS Approved by AICTE, New Delhi, Affiliated iliated to JNTUA, Ananthapuramu. Kadapa, Andhra Pradesh, India- 516003.

CERTIFICATE OF COMPLETION

This	is to certify t	hat I	//r./Ms	B·	Vinod			with
roll	no	1	5971A0419			has	completed	the
Certif	fication Cour	se or	"Lab View Pr	ogra	mming" from	02-0	7-2018 to 21	-07-
2018	organized	by	Department	of	Electronics	and	communic	ation
engin	eering.							

Coordinator

HoD,ECE

Principal



UGC - AUTONOMOUS

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu. Kadapa, Andhra Pradesh, India—516 003

FEEDBACK FORM

Certification Course on "Lab view Programming", from 02-07-2018 to 21-07-2018 Organized

by

Department of Electronics & Communication Engineering

Roll No:

S.No	Feedback Item	Excellent	Very Good	Good	Average	Below Average
1	Organization of certificate course and session planning by instructor.					
2	Clarity in content delivery.					
3	Content is relevant and useful					
4	Adequate opportunity to interact with trainer					
5	Judicious mix of concepts. Principles and practices.					
6	Assignments and tasks are interesting and challenging.					
7	Overall rating					

Any suggestions	for improvement.	



(UGC-AUTONOMOUS) Kadapa, Andhra Pradesh, India– 516 003

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.

An ISO 14001:2004 & 9001: 2015 Certified Institution

Certification Course on "Lab View Programming" 02/07/2018 to 21/07/2018

Feedback responses

S.No.	Roll No	Year & Semester	Branch	Is the course content met your expectation	Is the lecture sequence well planned	The contents of the course is explained with examples	Is the level of course high	Is the course exposed you to the new knowledge and practices	Is the lecturer clear and easy to understand	Rate the value of course in increasing your skills	Any issues
1	159Y1A0401	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	3	5	Nothing
2	159Y1A0403	B.Tech VIIsem	ECE	Yes	Yes	agree	Agree	Strongly agree	3	4	very good
3	159Y1A0405	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	Good
4	159Y1A0407	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	5	4	very good
5	159Y1A0409	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	4	5	Nothing
6	159Y1A0412	B.Tech VIIsem	ECE	Yes	Yes	agree	Agree	Strongly agree	4	3	Good
7	159Y1A0413	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	5	4	Good
8	159Y1A0416	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	5	4	Nothing

9	159Y1A0417	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	Nothing
10	159Y1A0419	B.Tech VIIsem	ECE	Yes	Yes	agree	Agree	Strongly agree	4	3	Very Good
11	159Y1A0420	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	4	5	Good
12	159Y1A0422	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	5	4	Good
13	159Y1A0424	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	3	5	Nothing
14	159Y1A0425	B.Tech VIIsem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	very good
15	159Y1A0427	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	5	4	Nothing
16	159Y1A0428	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	4	5	very good
17	159Y1A0451	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	5	3	No
18	159Y1A0452	B.Tech VIIsem	ECE	Yes	Yes	agree	Agree	Strongly agree	3	4	Nothing
19	159Y1A0454	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	Good
20	159Y1A0455	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	3	3	Good
21	159Y1A0458	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	Good
22	159Y1A0460	B.Tech VIIsem	ECE	Yes	Yes	agree	Agree	Strongly agree	5	5	Nothing
23	159Y1A0463	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	4	4	Good
24	159Y1A0464	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	4	4	Good
25	159Y1A0465	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	4	4	Good
26	159Y1A0467	B.Tech VIIsem	ECE	Yes	Yes	agree	Agree	Strongly agree	5	5	Nothing
27	159Y1A0469	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	5	3	No

28	159Y1A0471	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	4	4	No
29	159Y1A04A0	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	4	3	No
30	159Y1A04A1	B.Tech VIIsem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	5	4	No
31	159Y1A04A3	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	5	4	nothing
32	159Y1A04A6	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	5	3	Nothing
33	159Y1A04A7	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	4	4	No
34	159Y1A04A8	B.Tech VII sem	ECE	Yes	Yes	agree	Agree	Strongly agree	4	5	Nothing
35	159Y1A04C5	B.Tech VII sem	ECE	Yes	Yes	Strongly agree	Agree	Strongly agree	5	5	Good

Coordinator

HoD
Professor & H.O.D.
Department of E.C.E.
K.S.R.M. College of Engineering
KADAPA - 616 083

Introduction to LabVIEW



Overview

- Objectives
- Background
- Materials
- Procedure
- Report/Presentation
- Closing

MTO-------

Objective

- · Familiarization with graphical programming
- Obtain data from outside the computer using simulated instrumentation
- Use this knowledge to create programs in LabVIEW
 - · Heating and cooling system
- Lighting system

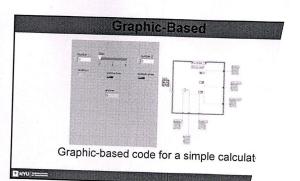
What is LabVIEW?

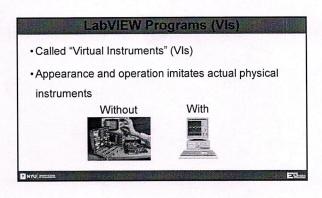
- Laboratory Virtual Instrument Engineering Workbench
- Graphical programming language
- Used for data acquisition, instrument control, and signal processing
- · Based on G programming language

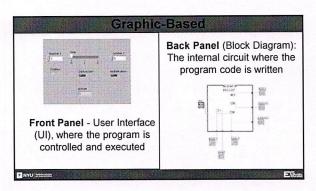
-ton

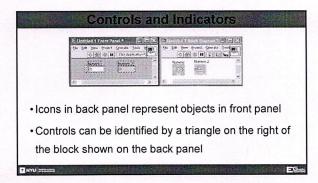
Text-Based

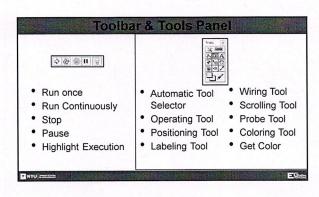
ACA: Calculation through an eliminate content and the content and

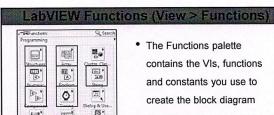












 Only items highlighted in red will be covered in this course NI-ELVIS Board

National Instruments' Educational Laboratory Virtual Instrumentation Suite Board

Interface that exchanges data (sends/receives) between the computer and the outside world

References: See EG1003 Online Manual, National Instruments documentation, and other LabVIEW oriented websites (i.e. IIT's LabVIEW for Dummies®)

Materials

- Computer with LabVIEW 2017
- · NI-ELVIS board
- Wires
- •3D-Printed Heat Cube

NYU ====

E5---

Procedure

Program 1 (Thermal Control VI)

- Program requirements Automatic Mode
 - Regulate house air temperature
 - AC is ON when temperature is greater than 80°F
- Heater is ON when temperature is less than 60°F
- Both OFF when the temperature is between 60°F & 80°F
- Program requirements Manual Mode
 - Heater and AC power are controlled directly by user (overrides automatic mode)

-45

Procedure

- •Front panel must have:
 - •3 LEDs: AC, Heater, and Manual operation
 - 3 switches for AC, heater, and system operation (automatic/manual)
 - A temperature control represented by a thermometer
- ·Back panel should have:
 - A Boolean case statement to control manual and automatic operations

NYU

E

Procedure

Real World Application

- Functional heating/cooling system "Heat Cube"
- Import premade VIs to control fans, heaters, and thermometers using your logic program
 - Temperature Reading VI: receive real time data
 - Heat Control VI: power heating element
 - · Cooling Control VI: power fan/cooling unit

NYU ===

Procedure

Program 2 (Lighting System VI)

- Program Requirements
 - Control the lights in four rooms
- Turn off all lights with a master switch
- Front Panel
- Four LEDs
- Five Switches
- · Back Panel
- · Case Structure
- NI ELVISmx Digital Writer

NYU

35m

Procedure

Real World Application

- Functional lighting system via LED's on the NI-ELVIS board
- Control lights on board using front panel on computer

1

NI ELVISMS
Digital Writer
Device Name
DO Lines
erfor is
Lines to Write
Stop
erior out

EG.

Report/Presentation

- Submit a zip file with all LabVIEW programs (.vi)
 - Submit BEFORE end of lab
- · Lab 5 presentation during next week's recitation
- · Individual report
- · Discussion topics in the manual
- ·Scan in data and lab notes

NYU ====

25.0

Closing

- · Have all lab notes signed by TA
- Each team member should have turn using software
- ·Save all VIs
- · Submit all work electronically
- Return all unused materials to TA

NYU :---

....

