Chaitanya Bharathi Institute of Technology (A) Gandipet, Hyderabad

REGISTRATION FORM

A Five-day Intensive Course on "Hands on LabVIEW"

Under LabVIEW Academy School

21th to 28th April 2018

Name:	
Designation:	
Organization:	
Address for Correspondence:	
Mobile:	
e-mail:	

Accommodation (Required*): YES / NO

Payment Details:

Draft No:	Date:	
Amount: Rs	Bank:	

Sponsored by

Name:

Designation:_____

Organization:

Applicant's Signature.

Recommended Signature (Head of the Institute, with seal)

*can be arranged on prior request based on the availability (Terms & Conditions apply) A Five-day Intensive Course

on

"Hands on LabVIEW"

Under LabVIEW Academy School

21th to 28th April 2018



Venue Computer Centre, N-Block

Organized by

Department of Electronics and Communication Engineering (ECE)

Chaitanya Bharathi Institute of Technology (A) (Affiliated to Osmania University) Accredited by NBA-AICTE, NAAC-UGC, An ISO 9001-2008 Certified Institution Chaitanya Bharathi (Post), Gandipet, Hyderabad- 500075. Telangana, India

Website: www.cbit.ac.in

COURSE FEE:

UG/PG Students: Rs.1500/-

(Payment by Demand Draft in favor of Head, Dept. of ECE, CBIT, Gandipet, Hyderabad, payable at the Andhra Bank, Kokapet.)

Note: Maximum number of registrations is 30 only.

IMPORTANT DATES: Last date for receipt of application: 14th April, 2018 Intimation to selected candidates: 17th April, 2018 Course Dates: 21st - 28th April, 2018.

PATRONS

Dr. V. Malakonda Reddy President, CBIT Society

ADVISOR

Dr. P. Ravinder Reddy Principal, CBIT

COORDINATORS

- 1. Smt. N. Dhana Lakshmi Assistant Professor Department of ECE
- 2. Sri. P. Sathish Assistant Professor Department of ECE

Chaitanya Bharathi Institute of Technology (CBIT) (Autonomous)

CBIT is one of the premier engineering colleges for imparting engineering education in the state. This is a first self-financed engineering college, established in 1979 in Hyderabad with a prime motto to shape young, innovative and creative engineers in building the Nation's Human Resource Capital. The college offers Nine UG and Eleven PG courses. It has been accredited by NBA (AICTE) and NAAC (UGC). This institute is also certified by ISO 9001:2008. Autonomous status was granted by UGC from the academic year 2013-14. The grants received from AICTE/UGC are worth about Rs.2.0 crores.

The Institute has signed MOU with State Project Facilitation Unit (SPFU), Technical Education Quality Improvement Program (TEQIP-II) Hyderabad. The objectives of the TEQIP project are strengthening institutions to produce high quality engineers for better employability, Scaling-up PG education, Demand- Driven Research and development and innovation, Establishing centers of excellence for focused applicable research, training of faculty for effective teaching and enhancing institutional and system management effectiveness.

Department of Electronics and Communication Engineering (ECE)

The department was established in 1979. The department offers one Undergraduate (B.E) and two Master of Engineering (M.E) programs with Communication Engineering and Embedded Systems & VLSI Design as specializations. The department is accredited by NBA (AICTE).

The department has highly qualified and experienced faculty, good infrastructural facilities and eleven full-fledged laboratories equipped with adequate hardware and software. The faculty is active in R&D and publishing papers in International / National Journals and Conferences. The department has successfully completed projects from AICTE and GE. Presently the department is executing projects that are sponsored by AICTE (New Delhi), DST (New Delhi), and RCI (DRDO). So far this department organized 33 technical programs including Faculty Development Program (FDP) and National Seminar (NS) sponsored by AICTE. The Department is recognized as a Research Center by Osmania University, Hyderabad

About the Course

The major focus of this course is to train the students intensively on Data Types, Arrays and Clusters, Error Handling, Documentation, Debugging, Loops, Case Structures, Sequence Structures, Event Structures, File I/O, Timing, VI Server, Synchronization and Communication, Design Patterns, Charts and Graphs, Mechanical Actions of Booleans, Property Nodes, Local Variables, Functional Global Variables in LabVIEW environment. The students will also be given hands on training on creating applications using the state machines design pattern to acquire, process, display and store real-word data.

Course Contents

- Introduction to LabVIEW Environment
- Data Types
- Arrays and Clusters
- Error Handling
- Documentation
- Debugging
- Loops
- Case Structures
- Sequence Structures
- Event Structures
- File I/O
- Timing

- VI Server
- Synchronization and Communication
- Design Patterns
- Charts and Graphs
- Mechanical Actions of Booleans
- Property Nodes
- Local Variables
- Functional Global Variables

The Resource persons for Course are:

- Dr. A.V. Narasimha Rao
- Sri. P. Sathish
- Sri. T. Aravinda Babu
- Smt. K.S.R.S. Jyothsna
- Smt. N. Dhana Lakshmi
- Sri. G.V. Pradeep Kumar
- Smt. B.Roopa
- Sri G. Mallikharjuna Rao
- Smt. B. Neeraja

Contact Persons:

1. Smt. N. Dhana Lakshmi

Assistant Professor Department of ECE email: dhanalakshmi_ece@cbit.ac.in Mobile: 9908217660

2. Sri. P. Sathish

Assistant Professor Department of ECE email: psathish_ece@cbit.ac.in Mobile: 9177545484

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Presents

A Five-day Intensive Course on "Hands-on LabVIEW" Under LabVIEW ACADEMY SCHOOL

DATE: 21-04-2018 to 28-04-2018

COURSE SCHEDULE

Timing	21-04-18	23-04-18	26-04-18	27-04-18	28-04-18
10.00 - 10.15	Inaugural	Session 5	Session 0	Sossion 13	Sossion 17
10.15 - 11.15	Session 1	Session 5 Session 9		Session 15	Session 17
11.30 - 12.45	Session 2	Session 6	Session 10	Session 14	Session 18
12.45 - 01.30			Lunch Break		
01.30 - 02.45	Session 3	Session 7	Session 11	Session 15	-
03.00 - 04.15	Session 4	Session 8	Session 12	Session 16	-

Faculty handling the sessions:

	Session 1	Introduction to LabVIEW	Dr.AVNR/Sri.YG	
21-04-18	Session 2	Array and clusters	Sri.PS/ Sri.TAB	
	Session 3			
	Session 4	Math scripts and Formula node	Sri. PS/Sri.TAB	
	Session 5	Loops structure and timing	Smt VCDCI/Cri TAD	
22 04 19	Session 6	Loops structure and timing	SIIII. KSKSJ/SII. IAD	
23-04-18	Session 7	Signal processing	Smt NDI /Sri BN	
	Session 8			
26.04.10	Session 9	Modular programming	Smt. KSRSJ/Sri.GVPK	
	Session 10	File IO	Smt. NDL/Smt.BR	
20-04-10	Session 11	Property node and Invoke node	Sri GMR/Sri.BR	
	Session 12	Local and global variables	Sri GMR/Dr.AVNR	
27-04-18	Session 13	State machines		
	Session 14	State machines	SILUVPK/SILINDL	
	Session 15	Quoues and Notifiers	Smt. BN/Sri.PS	
	Session 16	Quedes and Nothers		
28-04-18	Session 17	Error handling and debugging	Smt. BR/Smt.GMR	
	Session 18	Enor nanoning and debugging		

TOPICS	SUBTOPICS			
Introduction to LabVIEW	LabVIEW			
	a. Data Flow			
	b. Parallelism			
	c. Virtual Instruments (VIs)			
	d. Front Panel and Block Diagram			
	c. Icon and Connector Pane			
	d. Context Help Window			
Array and clusters	Data Types			
	a. Numeric, String, Boolean, Path, Enum			
	b. Clusters			
	c. Arravs			
	d. Type Definitions			
	e. Dynamic Data Type			
	h. Data Representation			
	i. Coercion			
	i. Data Conversion and Manipulation			
	Arrays and Clusters			
	a. Array Functions			
	h. Cluster Functions			
	c Function Polymorphism			
Loops structure and	Loops			
timing	a. Loop Components			
g	h. Auto-indexing			
	c. Shift Registers			
	d. Loon Behavior			
	Case Structures			
	a Case Selector			
	h Tunnels			
	c Applications			
	Timing			
	a. Timing Functions			
	b. Applications			
Practice session				
Math scripts and Formula	Math script			
node	Formula node			
Modular programming	Modular programming			
	a Basics of modular programming			
	b. Creating an icon and connector nane			
	c Using a VI as a subVI			
	d Creating subVIs from an existing VI			
Signal processing	Charts and Graphs			
	a. Types			
	b. Plotting Data			
	c. Waveforms			
	Signal Processing			
	a. Applications			

Practice session			
File IO	File I/O		
	a. Comparing file formats		
	b. Creating file and folder paths		
	c. Writing and reading binary files		
	d. Working with multichannel text files with headers		
	e. Accessing Technical data management streaming (TDMS) files in LabVIEW and Excel		
Property node and Invoke	Property node		
node	a. Using property nodes		
	Invoke node		
	a. Using invoke nodes		
	b. Creating and using control references		
State machine	Sequence Structures		
	a. Types		
	b. Behavior		
	c. Applications		
	Design Patterns		
	h Master/Slave		
	c Producer/Consumer (Data and Events)		
	d. Applications		
Practice session			
Local and global variables	Local Variables		
	a. Behavior		
	b. Applications		
	Functional Global Variables		
	a. Benavior		
guoues and notifiers	D. Applications		
queues and notmers	a Notify and Filter Events		
	h. Applications		
	Data Synchronization and Communication		
	a. Notifiers		
	b. Queues		
	c. Semaphores		
	d. Applications		
Error handling and	Error Handling		
debugging	a. Error Clusters		
	b. Error Handling VIs and Functions		
	d Automatic/Manual Error Handling		
	Debugging		
	a. Tools		
	b. Techniques		

Weightage in CLAD Exam:

Topics	No. of questions		
	covered		
LabVIEW	2		
Environment	Δ		
Data Types	2		
Arrays and Clusters	4		
Error Handling	2		
Documentation	1		
Debugging	2		
Loops	4		
Case Structures	1		
Sequence	1		
Structures	1		
Event Structures	2		
File I/O	1		
Timing	2		
VI Server	2		
Synchronization	2		
and Communication	2		
Design Patterns	2		
Charts and Graphs	2		
Mechanical Actions	1		
of Booleans			
Property Nodes	2		
Local Variables	1		
Functional Global	1		
Variables			
	40		

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A) DEPARTMENT OF ECE An Hands-on Course on "Hands on LabVIEW" Under LabVIEW ACADEMY SCHOOL

DATE: 17-01-2018 to 21-02-2018

List of the Students Participated

S.No	Roll Number	Name of the student	Attendance
1	160117744002	DONTI REDDY RAKESH REDDY	Present
2	160117744007	HARITHA GOTTIPATI	Present
3	160117744003	PATNAM BHAVANA	Present
4	160117744001	VENKATESH PENTI	Present
5	160117744005	SANDHYA RANI PERLA	Present
6	160117744004	NIKITHA BALASTI	Present
7	160116744008	LOKENDRA KUMAR VISWAKARMA	Present
8	160116744005	VAISHNAVI BALAJI	Present
9	160116744010	RAJ SANTOSH	Present
10	160116744006	BAGADE PRANALI	Present
11	160116744002	GUDA MOUNIKA REDDY	Present
12	160117744008	SYED ADNAN HYDER	Present
13	160117744406	SATHISH KUMAR MEDA	Present
14	160117744408	AKHIL VARMA POTTURI	Present
15	160117744410	NIYATHI RUMALA	Present
16	160117744404	THUSHARA VARSHA	Present
17	160117744401	PRASANNA VANGALA	Present
18	160117744405	SWATHI PYATA	Present
19	160116744004	MOHAMMED SULTAN	Present
20	16011644001	K SANTOSH KUMAR	Present
21	160117744403	J VAMSHI KRISHNA	Present
22	160117744402	BHARATH CHANDRA S	Present
23	160117744404	RAMAVATH RAJKUMAR	Present
24	160117744406	A SWAPNA	Present
25	160116744007	SYED SAMEER	Present
26	160117744411	M DEVI PRIYANKA	Present
27	16011744409	NUTHI HARSHA	Present

Brief Report on the workshop

Title: An intensive course on "Hands-on LabVIEW" under LabVIEW academy school

Co-coordinators: Smt. N Dhana Lakshmi, Sri. P. Sathish

Date: 21-04-2018 to 28-04-2018

The department of ECE conducted an intensive course on "Hands-on LabVIEW" for the students. The course was organized from 21-04-2018 to 28-04-2018. A total of 27 PG students, 16 students from ME (CE) and 11 students from ME (ES&VLSID) of CBIT were registered for the above said course. They are trained in on LabVIEW learning path, environment, dataflow programming, data acquisition, instrument control, data logging and measurement analysis. Also discovered how to create applications using the state machines design pattern to acquire, process, display and store real- word data.





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CERTIFICATE

Intensive Course on "Hands on LabVIEW"

Organized by Department of Electronics and Communication Engineering

This is to certify that

Mr./Ms.

DONTI REDDY RAKESH REDDY

has attended an intensive course on

"Hands on LabVIEW" (under NI-LabVIEW Academy)

Smt. N. Dhana Lakshmi **Course-Coordinator**

P. Satur

Sri. P. Sathish **Course-Coordinator**

Dr. N.V. Koteswara Rao Head, Dept. of ECE

Dr. P. Ravinder Reddy Principal





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HARITHA GOTTIPATI

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P. Satur

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LOKENDRA KUMAR VISWAKARMA Mr./Ms.

has attended an intensive course on

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VAISHNAVI BALAJI

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SYED ADNAN HYDER

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NIYATHI RUMALA

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Mr./Ms.

THUSHARA VARSHA

has attended an intensive course on

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PRASANNA VANGALA

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N.V.Kote NO P.A. 3 88

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Sri. P. Sathish **Course-Coordinator**

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N.V.Kote No. P.A. 308.

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