

Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad

REGISTRATION FORM

**A Two week Workshop
on
“Hands on LabVIEW”**

Under LabVIEW Academy School

18th to 30th June 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 Two week Workshop

on

“Hands on LabVIEW”

Under LabVIEW Academy School

18th to 30th June 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: **11th June, 2018**

Intimation to selected candidates: **14th June, 2018**

Workshop Dates: **18th - 30th June, 2018.**

PATRONS

Dr. V. Malakonda Reddy

President, CBIT Society

ADVISOR

Dr. P. Ravinder Reddy

Principal, CBIT

COORDINATORS

1. Smt. B. Neeraja

Assistant Professor

Department of ECE

2. Sri. G. V. Pradeep Kumar

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 Workshop

The major focus of this workshop is to train the students 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 Workshop 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.Roopaa
- Sri G. Mallikharjuna Rao
- Smt. B. Neeraja

Contact Persons:

1. Smt. B. Neeraja

Assistant Professor
Department of ECE
email: bneeraja_ece@cbit.ac.in
Mobile: 6309653729

2. Sri. G.V. Pradeep Kumar

Assistant Professor
Department of ECE
email: pradeepkumar_ece@cbit.ac.in
Mobile: 9966088798

Chaitanya Bharathi Institute of Technology

Department of ECE

Presents

A Two week Workshop on “**Hands on LabVIEW**”

Under **LabVIEW ACADEMY SCHOOL**

June 2018 Course Schedule

Date	10:00 -12:30	12:30- 1:30	1:30-4:00
18-06-2018	Inaugural	Lunch	Lab session 1
	Session 1		
19-06-2018	Session 2	Lunch	Lab session 2
20-06-2018	Session 3	Lunch	Lab session 3
21-06-2018	Session 4	Lunch	Lab session 4
22-06-2018	Session 5	Lunch	Lab session 5
23-06-2018	Session 6	Lunch	Lab session 6
25-06-2018	Session 7	Lunch	Lab session 7
26-06-2018	Session 8	Lunch	Lab session 8
27-06-2018	Session 9	Lunch	Lab session 9
28-06-2018	Session 10	Lunch	Lab session 10
29-06-2018	Session 11	Lunch	Lab session 11
30-06-2018	Practice Session	Lunch	Lab session 12

Faculty handling the sessions for the first week:

18-06-2018	Session 1	Introduction to LabVIEW	Dr.AVNR/Sri.YG
19-06-2018	Session 2	Array and clusters	Sri.PS/ Sri.TAB
20-06-2018	Session 3	Loops structure and timing	Smt. KSRSJ/Sri.TAB
21-06-2018	Session 4	Signal Processing	Smt. NDL/Sri.BN
22-06-2018	Session 5	Modular programming	Smt. KSRSJ/Sri.GVPK
		Math scripts and Formula node	Sri. PS/Sri.TAB
23-06-2018	Session 6	Introduction to Matlab	Dr.NVKR

Faculty handling the sessions for the second week:

25-06-2018	Session 7	File IO	Smt. NDL/Sri.BR
26-06-2018	Session 8	Property node and Invoke node	Sri GMR/Sri.BR
		Local and global variables	Sri GMR/Dr.AVNR
27-06-2018	Session 9	State machines	Sri GVPK/Sri.NDL
28-06-2018	Session 10	Queues and Notifiers	Smt. BN/Sri.PS
29-06-2018	Session 11	Error handling and debugging	Smt. BR/Smt.GMR
30-06-2018	Practice session		

TOPICS	SUB TOPICS
Introduction to LabVIEW	LabVIEW <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> a. Numeric, String, Boolean, Path, Enum b. Clusters c. Arrays d. Type Definitions e. Dynamic Data Type h. Data Representation i. Coercion j. Data Conversion and Manipulation Arrays and Clusters <ul style="list-style-type: none"> a. Array Functions b. Cluster Functions c. Function Polymorphism

Loops structure and timing	Loops <ul style="list-style-type: none"> a. Loop Components b. Auto-indexing c. Shift Registers d. Loop Behavior Case Structures <ul style="list-style-type: none"> a. Case Selector b. Tunnels c. Applications Timing <ul style="list-style-type: none"> a. Timing Functions b. Applications
Math scripts and Formula node	Math script Formula node
Modular programming	Modular programming <ul style="list-style-type: none"> a. Basics of modular programming b. Creating an icon and connector pane c. Using a VI as a subVI d. Creating subVIs from an existing VI
Signal processing	Charts and Graphs <ul style="list-style-type: none"> a. Types b. Plotting Data c. Waveforms Signal processing <ul style="list-style-type: none"> a. Applications
File IO	File I/O <ul style="list-style-type: none"> 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 node	Property node <ul style="list-style-type: none"> a. Using property nodes Invoke node <ul style="list-style-type: none"> a. Using invoke nodes b. Creating and using control references

State machine	Sequence Structures <ul style="list-style-type: none"> a. Types b. Behavior c. Applications Design Patterns <ul style="list-style-type: none"> a. State Machine b. Master/Slave c. Producer/Consumer (Data and Events) d. Applications
Local and global variables	Local Variables <ul style="list-style-type: none"> a. Behavior b. Applications Functional Global Variables <ul style="list-style-type: none"> a. Behavior b. Applications
queues and notifiers	Event Structures <ul style="list-style-type: none"> a. Notify and Filter Events b. Applications Data Synchronization and Communication <ul style="list-style-type: none"> a. Notifiers b. Queues c. Semaphores d. Applications
Error handling and debugging	Error Handling <ul style="list-style-type: none"> a. Error Clusters b. Error Handling VIs and Functions c. Custom Error Codes d. Automatic/Manual Error Handling Debugging <ul style="list-style-type: none"> a. Tools b. Techniques

Weightage in CLAD Exam:

Topics	No. of questions covered
LabVIEW Environment	2
Data Types	2
Arrays and Clusters	4
Error Handling	2
Documentation	1
Debugging	2
Loops	4
Case Structures	1
Sequence Structures	1
Event Structures	2
File I/O	1
Timing	2
VI Server	2
Synchronization and Communication	2
Design Patterns	2
Charts and Graphs	2
Mechanical Actions of Booleans	1
Property Nodes	2
Local Variables	1
Functional Global Variables	1
	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	Name	Roll Number	Phone Number	Class
1.	Yara Anitha	160116735002	9440817761	ECE-1
2.	Chinmayee Pujari	160116735006	9490917851	ECE-1
3.	Mahenaz Amreen	160116735011	9492768459	ECE-1
4.	Sahithi Bellam	160116735013	7286846989	ECE-1
5.	Vijaya Lakshmi K	160116735022	7207860276	ECE-1
6.	Gandham Yoshitha	160116735023	8121249939	ECE-1
7.	Kota Ashish	160116735024	9550699735	ECE-1
8.	Nunsavath Chaitan	160116735027	8309665957	ECE-1
9.	Epparapalli Dilip	160116735030	9393292974	ECE-1
10.	Chevugani Sri Hari	160116735051	8179486894	ECE-1
11.	Srikar Gullapalli	160116735052	8688466084	ECE-1
12.	T. S. Rahul	160116735303	7799333738	ECE-1
13.	Amtul Mohimin Taha	160116735061	8985127799	ECE-2
14.	Ayesha Samreen	160116735062	7660083142	ECE-2
15.	Kothwal Mamatha	160116735069	7981703623	ECE-2
16.	Janagam Manmitha	160116735070	7997556566	ECE-2
17.	Penumalla Ramyatha	160116735074	9014029765	ECE-2
18.	Venkata Lavanya Yeleboina	160116735084	9030044747	ECE-2
19.	Vidya Lingala	160116735085	9908779485	ECE-2
20.	Ayyala Akhil	160116735088	9533727962	ECE-2
21.	Vannala Akhil Kumar	160116735089	9951204168	ECE-2
22.	Kaushik Boora	160116735096	8978697414	ECE-2
23.	Sai Teja Kommineni	160116735107	8978425644	ECE-2
24.	Malepati Tarunendra	160116735114	9246945699	ECE-2
25.	Vamshi Krishna CH	160116735116	9951905443	ECE-2
26.	Korumilli Ragasai	160116735313	7893908677	ECE-2

18th June, 2018

LABVIEW (FN)

ECE

S.No	Name	Roll No	Phone number	Signature
1	Ayeesha Samreen	160116735062	7660083142	Ayeesha
2	K. Mamatha	160116735069	7981703623	Mamatha
3.	P. Ramyatha	160116735074	9014029765	P. Ramyatha
4.	K. Raga Sai	160116735313	7893908677	Raga
5	L. Vidya	160116735083	9908779485	Vidya
6	J. Manmitha	160116735070	7997556566	J. Manmitha
7.	V. Akhil Kumar (Sports)	1601-16-735-089	9951204168	Akhil
8.	A. Akhil	1601-16-735-088	9533727962	A. Akhil
9.	Chevugani. Sriharsa	1601-16-735-051	8179486894	Chharsa
10.	K. Ashish	1601-16-735-024	9550699735	Ashish
11.	N. Chaitan	160116735027	8309665957	Chaitan
12	Z. Dilp	160116735030	9393292974	Dilp
13	P. Chinmayee (Sports)	160116735006	9490917851	Chinmay
14	Maheshwari Amreen	160116735011	9492768459	Amreen
15	G. Yoshitha	160116735023	8121249939	G. Yoshitha
16.	T.S. Rahul	160116735303	7799333738	Rahul
17.	G. Suikan	160116735052	9688466084	Suikan
18	K. Vijayalakshmi (Sports)	160116735022	7207860276	Vijayalakshmi

Report on workshop

Title: A Two week Workshop on “*Hands on LabVIEW*”
Under *LabVIEW ACADEMY SCHOOL* for UG Students

Co-ordinators: Smt. B. Neeraja, Sri. G.V.Pradeep Kumar

Date: 18th - 30th June 2018

Smt. Neeraja Bandi, Assistant Professor and G.V. Pradeep Kumar, Assistant Professor, ECE Department organized a Two week workshop on “**Hands on LabVIEW**” under **LabVIEW** academy school during 18-06-2018 to 30-06-2018. Both the faculty are qualified and Certified LabVIEW Associate Developers (CLAD) and recognized as the members in NI LabVIEW Academy. Several lectures were delivered by a team of trained and certified faculty of the department during the two week workshop. LabVIEW software was introduced to B.E. students of 25 members for the benefit of carrying out their mini and major projects. Students were able to implement various domains programs in LabVIEW after attending this workshop.



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CERTIFICATE

Two Week Internship on
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Organized by
Department of Electronics and Communication Engineering

This is to certify that

Mr./Ms. YARA ANITHA

has attended an two week internship on

"Hands on LabVIEW"
(under NI LabVIEW Academy)

held during 18th - 30th June 2018.

Smt. B. Neeraja
Course-Cordinator

Sri. G.V. Pradeep Kumar
Course-Cordinator

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

Dr. P. Ravinder Reddy
Principal



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This is to certify that

Mr./Ms. CHINMAYEE PUJARI

has attended an two week internship on

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Course-Cordinator

Sri. G.V. Pradeep Kumar
Course-Cordinator

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This is to certify that

Mr./Ms. MAHENAZ AMREEN

has attended an two week internship on

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Course-Coordinator

Sri. G.V. Pradeep Kumar
Course-Coordinator

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This is to certify that

Mr./Ms. SAHITHI BELLAM

has attended an two week internship on

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held during 18th - 30th June 2018.

B. Neeraja

Smt. B. Neeraja
Course-Cordinator

G.V. Pradeep Kumar

Sri. G.V. Pradeep Kumar
Course-Cordinator

N.V. Koteswara Rao

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

P. Ravinder Reddy

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This is to certify that

Mr./Ms. VIJAYA LAKSHMI K

has attended an two week internship on

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Smt. B. Neeraja
Course-Cordinator

Sri. G.V. Pradeep Kumar
Course-Cordinator

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This is to certify that

Mr./Ms. GANDHAM YOSHITHA

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Smt. B. Neeraja
Course-Coordinator

Sri. G.V. Pradeep Kumar
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This is to certify that

Mr./Ms. KOTA ASHISH

has attended an two week internship on

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Course-Coordinator

Sri. G.V. Pradeep Kumar
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This is to certify that

Mr./Ms. NUNSAVATH CHAITAN

has attended an two week internship on

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Smt. B. Neeraja
Course-Cordinator

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This is to certify that

Mr./Ms. EPPARAPALLI DILIP

has attended an two week internship on

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Course-Coordinator

Sri. G.V. Pradeep Kumar
Course-Coordinator

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This is to certify that

Mr./Ms. CHEVUGANI SRI HARI

has attended an two week internship on

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Sri. G.V. Pradeep Kumar
Course-Coordinator

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This is to certify that

Mr./Ms. SRIKAR GULLAPALLI

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Course-Cordinator

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This is to certify that

Mr./Ms. T. S. RAHUL

has attended an two week internship on

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Smt. B. Neeraja
Course-Cordinator

Sri. G.V. Pradeep Kumar
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This is to certify that

Mr./Ms. AMTUL MOHIMIN TAHA

has attended an two week internship on

"Hands on LabVIEW"
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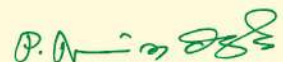
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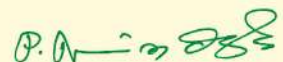
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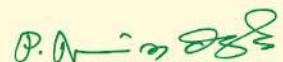
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