

Chaitanya Bharathi Institute of Technology (A)  
Gandipet, Hyderabad

**REGISTRATION FORM**

**An Intensive Course  
on  
“Hands on LabVIEW”**

**Under LabVIEW Academy School**

**17<sup>th</sup> Jan. to 21<sup>st</sup> Feb. 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)

**An Intensive Course**

**on**

**“Hands on LabVIEW”**

**Under LabVIEW Academy School**

**17<sup>th</sup> Jan. to 21<sup>st</sup> Feb. 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](http://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: **10<sup>th</sup> Jan., 2018**

Intimation to selected candidates: **13<sup>th</sup> Jan., 2018**

Course Dates: **17<sup>th</sup> Jan. to 21<sup>st</sup> Feb. 2018.**

**PATRONS**

**Dr. V. Malakonda Reddy**

President, CBIT Society

**ADVISOR**

**Dr. P. Ravinder Reddy**

Principal, CBIT

**COORDINATORS**

**1. Smt. K.S.R.S Jyothsna**

Assistant Professor

Department of ECE

**2. Sri. G. Mallikharjuna Rao**

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.Roopaa
- Sri G. Mallikharjuna Rao
- Smt. B. Neeraja

### **Contact Persons:**

#### **1. Smt. K.S.R.S. Jyothsna**

Assistant Professor  
Department of ECE  
email: jyothsna\_ece@cbit.ac.in  
**Mobile: 9959540941**

#### **2. Sri. G. Mallikharjuna rao**

Assistant Professor  
Department of ECE  
email: mallikarjunarao\_ece@cbit.ac.in  
**Mobile: 9866047394**

# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A),

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Presents

An Intensive Course on “**Hands-on LabVIEW**”  
Under **LabVIEW ACADEMY SCHOOL**

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

### **COURSE SCHEDULE**

<b>S.No</b>	<b>Date</b>	<b>Topics</b>
1.	17-01-18	Inaugural Function by Principal / Head Session 1: Introduction to LabVIEW by Dr.A.V.Narasimha Rao
2.	18-01-18	Session 2: Array and Clusters by Sri.P.Satish/Sri.T.Aravinda Babu /Sri.V.Yadagiri
3.	19-01-18	
4.	22-01-18	Session 3: Loops, Structures and Timing by Smt. K.S.R.S.Jyothsna / Sri.T.Aravinda Babu/Sri.V.Yadagiri
5.	23-01-18	
6.	24-01-18	Session 4: Math scripts and Formula node by Sri.P.Satish / Sri.T.Aravinda Babu
7.	25-01-18	Session 5: Signal processing by Smt. N.Dhana Lakshmi / Smt. B.Neeraja/Sri.V.Yadagiri
8.	29-01-18	
9.	30-01-18	Session 6: Modular programming by Smt. K.S.R.S.Jyothsna / Sri G.V.Pradeepkumar
10.	31-01-18	Session 7: File I/O by Smt. N.Dhana Lakshmi / Smt. B.Roopa
11.	01-02-18	Session 8: Property node and Invoke node by Sri G.Mallikharjuna Rao/ Smt. B.Roopa
12.	08-02-18	Session 9: State machine by Sri G.V.Pradeepkumar/ Smt N.Dhana Lakshmi
13.	09-02-18	
14.	12-02-18	Session 10:Local and Global variables by Sri G.Mallikharjuna Rao / Dr.A.V.Narasimha Rao
15.	15-02-18	Session 11: Queues and Notifiers by Smt. B.Neeraja / Sri.P.Satish/Sri.V.Yadagiri
16.	16-02-18	
17.	19-02-18	Session 12: Error handling and debugging by Smt. B.Roopa/ Sri G.Mallikharjuna Rao
18.	20-02-18	
19.	21-02-18	Test Valedictory Function by Principal / Head

TOPICS	SUBTOPICS
Introduction to LabVIEW	<b>LabVIEW</b> <ul style="list-style-type: none"> <li>a. Data Flow</li> <li>b. Parallelism</li> <li>c. Virtual Instruments (VIs)</li> <li>d. Front Panel and Block Diagram</li> <li>c. Icon and Connector Pane</li> <li>d. Context Help Window</li> </ul>
Array and clusters	<b>Data Types</b> <ul style="list-style-type: none"> <li>a. Numeric, String, Boolean, Path, Enum</li> <li>b. Clusters</li> <li>c. Arrays</li> <li>d. Type Definitions</li> <li>e. Dynamic Data Type</li> <li>h. Data Representation</li> <li>i. Coercion</li> <li>j. Data Conversion and Manipulation</li> </ul> <b>Arrays and Clusters</b> <ul style="list-style-type: none"> <li>a. Array Functions</li> <li>b. Cluster Functions</li> <li>c. Function Polymorphism</li> </ul>
Loops structure and timing	<b>Loops</b> <ul style="list-style-type: none"> <li>a. Loop Components</li> <li>b. Auto-indexing</li> <li>c. Shift Registers</li> <li>d. Loop Behavior</li> </ul> <b>Case Structures</b> <ul style="list-style-type: none"> <li>a. Case Selector</li> <li>b. Tunnels</li> <li>c. Applications</li> </ul> <b>Timing</b> <ul style="list-style-type: none"> <li>a. Timing Functions</li> <li>b. Applications</li> </ul>
Practice session	
Math scripts and Formula node	<b>Math script</b> <b>Formula node</b>
Modular programming	<b>Modular programming</b> <ul style="list-style-type: none"> <li>a. Basics of modular programming</li> <li>b. Creating an icon and connector pane</li> <li>c. Using a VI as a subVI</li> <li>d. Creating subVIs from an existing VI</li> </ul>
Signal processing	<b>Charts and Graphs</b> <ul style="list-style-type: none"> <li>a. Types</li> <li>b. Plotting Data</li> <li>c. Waveforms</li> </ul> <b>signal processing</b> <ul style="list-style-type: none"> <li>a. Applications</li> </ul>

<b>Practice session</b>	
<b>File IO</b>	<b>File I/O</b> <ol style="list-style-type: none"> <li>Comparing file formats</li> <li>Creating file and folder paths</li> <li>Writing and reading binary files</li> <li>Working with multichannel text files with headers</li> <li>Accessing Technical data management streaming (TDMS) files in LabVIEW and Excel</li> </ol>
<b>Property node and Invoke node</b>	<b>Property node</b> <ol style="list-style-type: none"> <li>Using property nodes</li> </ol> <b>Invoke node</b> <ol style="list-style-type: none"> <li>Using invoke nodes</li> <li>Creating and using control references</li> </ol>
<b>State machine</b>	<b>Sequence Structures</b> <ol style="list-style-type: none"> <li>Types</li> <li>Behavior</li> <li>Applications</li> </ol> <b>Design Patterns</b> <ol style="list-style-type: none"> <li>State Machine</li> <li>Master/Slave</li> <li>Producer/Consumer (Data and Events)</li> <li>Applications</li> </ol>
<b>Practice session</b>	
<b>Local and global variables</b>	<b>Local Variables</b> <ol style="list-style-type: none"> <li>Behavior</li> <li>Applications</li> </ol> <b>Functional Global Variables</b> <ol style="list-style-type: none"> <li>Behavior</li> <li>Applications</li> </ol>
<b>queues and notifiers</b>	<b>Event Structures</b> <ol style="list-style-type: none"> <li>Notify and Filter Events</li> <li>Applications</li> </ol> <b>Data Synchronization and Communication</b> <ol style="list-style-type: none"> <li>Notifiers</li> <li>Queues</li> <li>Semaphores</li> <li>Applications</li> </ol>
<b>Error handling and debugging</b>	<b>Error Handling</b> <ol style="list-style-type: none"> <li>Error Clusters</li> <li>Error Handling VIs and Functions</li> <li>Custom Error Codes</li> <li>Automatic/Manual Error Handling</li> </ol> <b>Debugging</b> <ol style="list-style-type: none"> <li>Tools</li> <li>Techniques</li> </ol>
<b>Practice session</b>	

**Weightage in CLAD Exam:**

<b>Topics</b>	<b>No. of questions covered</b>
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 IHands-on Course on “**Hands on LabVIEW**”Under **LabVIEW ACADEMY SCHOOL****DATE: 17-01-2018 to 21-02-2018****List of the Students Participated**

<b>S.No</b>	<b>Roll Number</b>	<b>Name of the student</b>	<b>Attendance</b>
1	160116735109	Sai Vishwa Teja T	Present
2	160116735126	Jahnavi R	Present
3	160116735128	Madhumitha C	Present
4	160116735132	Niharika K	Present
5	160116735141	Srija P	Present
6	160116735127	Lahari R	Present
7	160115735024	Sajja Soumya	Present
8	160115735055	Sundeeep Vunnamatla	Present
9	160115735058	C Kishore Reddy	Present
10	160115735038	J E Prajeeth	Present
11	160115735064	Lukalapu Bhargavi	Present
12	160115735066	Sarparapu Divya Sri	Present
13	160115735079	Makam Srimanika	Present
14	160115735076	Dulapally Shanthi Priya	Present
15	160115735084	Musti Venkata Shravanthi	Present
16	160115735316	Manish Kumar Jaiswal	Present
17	160115735317	Kota Lokesh Krishna Bharadwaj	Present
18	160115735121	Kallem Adithi Reddy	Present
19	160115735127	Meghna Raman	Present
20	160115735128	Amgoth Mounika	Present
21	160115735130	Thota Preethi	Present
22	160115735132	Talluri Sai Priya	Present
23	160115735138	Cheruku Sushma	Present
24	160115735125	Tummalapalli Lakshmi Deepika	Present
25	160115735156	Tudi Riteesh Reddy	Present
26	160115735170	Kandala Sriraj Sekhar	Present

27	160115735325	Banja Divya	Present
28	160115735330	Keesara Arvind	Present
29	160115735332	Koppula Ganesh	Present
30	160115734013	S.Sahitya	Present
31	160115734035	Mohd Zoher Shahzan	Present

## **Brief Report on the workshop**

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

Co-coordinators: Smt. K.S.R.S. Jyothsna, Sri. G. Mallikharjuna Rao

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

The department of ECE conducted an intensive course on “Hands-on LabVIEW” for the students. The course was organized from 17-01-2018 to 21-02-2018 from 3:15 PM to 4:15 PM on every working day (except on Saturdays and during I-Mid Exams). Thirty-one UG students of ECE, CBIT were registered for the above-said course. They are trained on LabVIEW learning path, environment, dataflow programming, data acquisition, instrument control, data logging, and measurement analysis. The institute had an MOU with NI in establishing ‘LabVIEW Academy School’. Further, eleven (11) faculty of the ECE Department are qualified ‘CLAD’ (Certified LabVIEW Associate Developer) professionals. Also discovered how to create applications using the state machines’ design patterns to acquire, process, display and store real- word data.





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Affiliated to Osmania University, Hyderabad  
All UG & Five PG Engineering Programmes are Accredited by NBA,  
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ISO 9001:2015 Certified Institute  
Chaitanya Bharathi P.O., Gandipet, Hyderabad - 500 075

# CERTIFICATE

Intensive Course on  
**"Hands on LabVIEW"**

Organized by  
**Department of Electronics and Communication Engineering**

*This is to certify that*

Mr./Ms. SAI VISHWA TEJA T

*has attended an intensive course on*

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

*held during 17<sup>th</sup> January - 22<sup>nd</sup> February 2018.*

Smt. KSRS Jyothsna  
Course-Coordinator

Sri. G. Mallikharjuna Rao  
Course-Coordinator

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

Dr. P. Ravinder Reddy  
Principal



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**Department of Electronics and Communication Engineering**

*This is to certify that*

Mr./Ms. JAHNAVI R

*has attended an intensive course on*

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

*held during 17<sup>th</sup> January - 22<sup>nd</sup> February 2018.*

Smt. KSRS Jyothsna  
Course-Coordinator

Sri. G. Mallikharjuna Rao  
Course-Coordinator

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

Dr. P. Ravinder Reddy  
Principal



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Organized by  
**Department of Electronics and Communication Engineering**

*This is to certify that*

Mr./Ms. MADHUMITHA C

*has attended an intensive course on*

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

*held during 17<sup>th</sup> January - 22<sup>nd</sup> February 2018.*

Smt. KSRS Jyothsna  
Course-Coordinator

Sri. G. Mallikharjuna Rao  
Course-Coordinator

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. NIHARIKA K

*has attended an intensive course on*

**"Hands on LabVIEW"**  
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Smt. KSRS Jyothsna  
Course-Coordinator

Sri. G. Mallikharjuna Rao  
Course-Coordinator

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. SRIJA P

*has attended an intensive course on*

**"Hands on LabVIEW"**  
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Smt. KSRS Jyothsna  
Course-Coordinator

Sri. G. Mallikharjuna Rao  
Course-Coordinator

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. LAHARI R

*has attended an intensive course on*

**"Hands on LabVIEW"**  
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*held during 17<sup>th</sup> January - 22<sup>nd</sup> February 2018.*

Smt. KSRS Jyothsna  
Course-Coordinator

Sri. G. Mallikharjuna Rao  
Course-Coordinator

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. SAJJA SOUMYA

*has attended an intensive course on*

**"Hands on LabVIEW"**  
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*held during 17<sup>th</sup> January - 22<sup>nd</sup> February 2018.*

Smt. KSRS Jyothsna  
Course-Coordinator

Sri. G. Mallikharjuna Rao  
Course-Coordinator

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

Dr. P. Ravinder Reddy  
Principal



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**Department of Electronics and Communication Engineering**

*This is to certify that*

Mr./Ms. SUNDEEP VUNNAMATLAU

*has attended an intensive course on*

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*held during 17<sup>th</sup> January - 22<sup>nd</sup> February 2018.*

Smt. KSRS Jyothsna  
Course-Coordinator

Sri. G. Mallikharjuna Rao  
Course-Coordinator

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

Dr. P. Ravinder Reddy  
Principal





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**Department of Electronics and Communication Engineering**

*This is to certify that*

*Mr./Ms.* C KISHORE REDDY

*has attended an intensive course on*

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*held during 17<sup>th</sup> January - 22<sup>nd</sup> February 2018.*

Smt. KSRS Jyothsna  
Course-Coordinator

Sri. G. Mallikharjuna Rao  
Course-Coordinator

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

Dr. P. Ravinder Reddy  
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*This is to certify that*

Mr./Ms. J E PRAJEETH

*has attended an intensive course on*

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Smt. KSRS Jyothsna  
Course-Coordinator

Sri. G. Mallikharjuna Rao  
Course-Coordinator

Dr. N.V. Koteswara Rao  
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*This is to certify that*

*Mr./Ms.* LUKALAPU BHARGAVI

*has attended an intensive course on*

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*held during 17<sup>th</sup> January - 22<sup>nd</sup> February 2018.*

Smt. KSRS Jyothsna  
Course-Coordinator

Sri. G. Mallikharjuna Rao  
Course-Coordinator

Dr. N.V. Koteswara Rao  
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*Mr./Ms.* SARPARAPU DIVYA SRI

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Mr./Ms. KALLEM ADITHI REDDY

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*has attended an intensive course on*

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