

# TEQIP-III

(TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME-III)

Sponsored

Five Days Workshop

On

“Hands-On Introduction to  
LabVIEW and its Applications”

(25<sup>th</sup> – 29<sup>th</sup> September, 2020)

## REGISTRATION PERFORMA

Name.....

Designation and Official Address.....

Mailing Address.....

Accommodation required: (Yes / NO).....

Phone/Mobile.....

E-mail.....

Payment Details: (CASH/ONLINE).....

Transaction ID.....Bank Name:.....

Amount:.....Dated.....

Category: MNIT Jaipur or IIIT Kota student /

Other institute student/ Faculty member

Participant Signature Authorized Signatory

With Seal

*Note: The filled registration form/online fee should be submitted/reach on or before 21<sup>st</sup> September 2020.*

**Alternatively, Online Registration can also be done by filling the following Google form:**

**<https://forms.gle/WSkL4gUg6rcBaBo66>**

## Organizing Committee:

### Patron:

- Prof. Udaykumar R. Yaragatti, Director MNIT Jaipur, and Mentor Director, IIIT Kota

### Advisors:

- Prof. Ashok Kumar Vyas, Dept. of Civil Engg., MNIT Jaipur, and Coordinator, IIIT Kota
- Prof. M.L. Mittal, Head of Dept., Dept. of Mechanical Engg., MNIT Jaipur

### Workshop Convener:

- Dr. Gunjan Soni, Assistant Professor, Dept. of Mechanical Engg., MNIT Jaipur

### Workshop Coordinators:

- Dr. Amit Singh, Assistant Professor, Dept. of Mechanical Engg., MNIT Jaipur
- Dr. Parikshit Kishor Singh, Assistant Professor, Dept. of ECE, IIIT Kota

## Address for Correspondence:

Interested persons should either fill the online form or send the nomination on the enclosed Performa, duly signed by the appropriate authority, along with the course fee to:

### Dr. Gunjan Soni,

Assistant Professor, Dept. of Mechanical Engg., MNIT Jaipur, JLN Marg, Jaipur – 302017, Rajasthan, India

Email: [gsoni.mech@mnit.ac.in](mailto:gsoni.mech@mnit.ac.in)

Mobile: +91-9549654559

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Five Days Workshop

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Organized by



Department of Mechanical Engineering,  
MNIT Jaipur

&



Department of Electronics &  
Communication Engineering, IIIT Kota

## About LabVIEW:

Laboratory Virtual Instrument Engineering Workbench (LabVIEW) is systems engineering software for applications that require test, measurement, and control with rapid access to hardware and data insights. LabVIEW offers a graphical programming approach that helps you visualize every aspect of your application, including hardware configuration, measurement data, and debugging. This visualization makes it simple to integrate measurement hardware from any vendor, represent complex logic on the diagram, develop data analysis algorithms, and design custom engineering user interfaces.

## Workshop Highlights:

- Navigating LabVIEW
- Troubleshooting and Debugging VIs
- Implementing a VI
- Developing Modular Applications
- Creating and Leveraging Data Structures
- DAQ & Control using LabVIEW, DAQ Devices (Arduino, cDAQ, myDAQ, etc.)
- Machine Vision Applications
- Mechanical Measurements Applications using LabVIEW
- Signal Processing Applications using LabVIEW

## Resource Persons:

1. Mr. Vinit Bansal, Field Technical Consultant, NI Systems (India) Private Limited
2. Dr. Parikshit Kishor Singh, Assistant Prof., Dept. of ECE, IIIT Kota
3. Dr. Amit Singh, Assistant Prof., Dept. of Mechanical Engg., MNIT Jaipur
4. Dr. Gunjan Soni, Assistant Prof., Dept. of Mechanical Engg., MNIT Jaipur
5. And some more subject experts from reputed organizations (IITs / NITs etc.)

## Registration Fees:

- Rs. 250/- for MNIT Jaipur or IIIT Kotastudent
- Rs. 500/- for Other institutestudent
- Rs. 1000/- for Faculty member

## Online Payment Details:

A/c Name: The Registrar MNIT, Jaipur (TEQIP Phase-III)

Bank Name: State Bank of India (SBI)

Current A/c No.: 36875887782

IFSC Code: SBIN0015921

Branch Name: MNIT Campus, Jaipur

## Additional Details:

Workshop is conducted in the Online mode. Since the number of seats is limited to 200, the selection will be made on first cum first basis and intimation will be sent to the candidates by email. Certificates will be issued to the participants, as per norms.

## About MNIT Jaipur:

The college was established in 1963 with the name as Malaviya Regional Engineering College, Jaipur as a joint venture of the Government of India and the Government of Rajasthan. Subsequently; on June 26, 2002 the college has been given the status of National Institute of Technology and on 15 August 2007, Proclaimed Institute of National Importance through Act of Parliament. The Institute is fully funded by Ministry of Human Resource Development (MHRD), Government of India.



## About IIIT Kota:

Indian Institute of Information Technology, Kota (IIIT Kota) is an Institute of National Importance. IIIT Kota is a joint venture of the MHRD, Govt. of India, and Govt. of Rajasthan with Industry Partners in Public-Private-Partnership (PPP) mode. IIITKota was established in 2013. Currently the institute is mentored by MNIT Jaipur and situated at MNIT Jaipur campus.



Name of the Institute/Organization: Malaviya National Institute of Technology Jaipur (MNIT Jaipur)  
Indian Institute of Information Technology Kota (IIIT Kota)

Title of the Workshop: TEQIP-III Sponsored Workshop on ‘Hands-On Introduction to LabVIEW and its Applications’

From: 25<sup>th</sup> September – 29<sup>th</sup> September, 2020

Mode: Online

Platform: Cisco Webex

**Schedule for TEQIP-III Sponsored Workshop on ‘Hands-On Introduction to LabVIEW and its Applications’**

Date	9:30 AM to 11:00 AM	11:00 AM to 11:30 AM	11.30 AM to 01.00 PM	01.00 PM to 2:30 PM	2:30 PM to 4.00 PM
25-09-2020	Inauguration	Session break	Session 1 Navigating LabVIEW Implementing a VI (Dr. Parikshit Kishor Singh, Assistant Professor, ECE Dept., IIIT Kota)	Session break	Session 2 Developing Modular Applications Creating and Leveraging Data Structures (Dr. Parikshit Kishor Singh, Assistant Professor, ECE Dept., IIIT Kota)
26-09-2020	Session 3 DAQ Devices (Mr. Vinit Bansal, Field Technical Consultant, NI Systems India Private Ltd.)	Session break	Session 4 DAQ & Control using LabVIEW (Mr. Vinit Bansal, Field Technical Consultant, NI Systems India Private Limited)	Session break	Session 5 Industry 4.0 (Dr. Giriraj Nyati, COO, Genus Power Infrastructure Ltd.)
27-09-2020	Session 6 Cyber Physical Systems (Dr. S. A. Akbar, Chief Scientist, CSIR-CEERI Pilani)	Session break	Session 7 Building Machine Vision and Automated Test Applications (Mr. Vinit Bansal, Field Technical Consultant, NI Systems India Private Limited)	Session break	Session 8 Building Machine Vision and Automated Test Applications (Mr. Vinit Bansal, Field Technical Consultant, NI Systems India Private Limited)
28-09-2020	Session 9 Fuzzy System Designer using LabVIEW (Dr. Nikhil Marriwala, Assistant Professor, ECE Dept., Kurukshetra University)	Session break	Session 10 Fuzzy System Designer Applications using LabVIEW (Designing IoT based Artificially Intelligent Greenhouse Controller) (Dr. Nikhil Marriwala, Assistant Professor, ECE Dept., Kurukshetra University)	Session break	Session 11 Sensors and Actuators for Physical Measurements (Dr. Amit Singh, Assistant Professor, Mechanical Engg. Dept., MNIT Jaipur)
29-09-2020	Session 12 Statistical Measurement Techniques (Dr. Gunjan Soni, Assistant Professor, Mechanical Engg. Dept., MNIT Jaipur)	Session break	Session 13 Condition Monitoring and Fault Diagnosis (Dr. Naresh K. Raghuwanshi, Assistant Professor, Mechanical Engg. Dept., MNIT Jaipur)	Session break	Conduction of test, feedback and valedictory



## Highlights for TEQIP-III Sponsored Workshop on ‘Hands-On Introduction to LabVIEW and its Applications’

To register, please visit <https://forms.gle/WSkL4gUg6rcBaBo66>

	<b>Patron</b> <b>Prof. Udaykumar R Yaragatti</b> Mentor Director, IIIT Kota Director, MNIT Jaipur	<a href="http://www.mnit.ac.in/admin/director.php">http://www.mnit.ac.in/admin/director.php</a>
	<b>Advisor</b> <b>Prof. Ashok Kumar Vyas</b> Coordinator, IIIT Kota Professor, Civil Engg. Dept., MNIT Jaipur	<a href="http://www.mnit.ac.in/dept_civil/preprofile.php">http://www.mnit.ac.in/dept_civil/preprofile.php</a>
	<b>Advisor</b> <b>Prof. M.L. Mittal</b> Professor and HoD, Mechanical Engg. Dept., MNIT Jaipur	<a href="http://mnit.ac.in/dept_mech/preprofile.php">http://mnit.ac.in/dept_mech/preprofile.php</a>
	<b>TEQIP-III Workshop Convener and Expert</b> <b>Dr. Gunjan Soni</b> Assistant Professor, Mechanical Engg. Dept., MNIT Jaipur	<a href="http://mnit.ac.in/dept_mech/preprofile.php">http://mnit.ac.in/dept_mech/preprofile.php</a>
	<b>TEQIP-III Workshop Coordinator and Expert</b> <b>Dr. Amit Singh</b> Assistant Professor, Mechanical Engg. Dept., MNIT Jaipur	<a href="http://mnit.ac.in/dept_mech/preprofile.php">http://mnit.ac.in/dept_mech/preprofile.php</a>
	<b>TEQIP-III Workshop Coordinator and Expert</b> <b>Dr. Parikshit Kishor Singh</b> Assistant Professor, ECE Dept., IIIT Kota	<a href="http://www.iiitkota.ac.in/parikshit">http://www.iiitkota.ac.in/parikshit</a>
	<b>TEQIP-III Workshop Expert</b> <b>Mr. Vinit Bansal</b> Field Technical Consultant, NI Systems (India) Private Limited	<a href="https://www.ni.com/en-in.html">https://www.ni.com/en-in.html</a>



	<b>TEQIP-III Workshop Expert</b> <b>Dr. S. A. Akbar</b> Chief Scientist, CSIR-CEERI Pilani	<a href="https://www.ceeri.res.in/profiles/s-a-akbar/">https://www.ceeri.res.in/profiles/s-a-akbar/</a>
	<b>TEQIP-III Workshop Expert</b> <b>Dr. Giriraj Nyati</b> COO, Genus Power Infrastructures Ltd	<a href="https://in.linkedin.com/in/giriraj-nyati-490bb916">https://in.linkedin.com/in/giriraj-nyati-490bb916</a>
	<b>TEQIP-III Workshop Expert</b> <b>Dr. Naresh K. Raghuvanshi</b> Assistant Professor, Mechanical Engg. Dept., MNIT Jaipur	<a href="http://www.mnit.ac.in/dept_mech/preprofile.php">http://www.mnit.ac.in/dept_mech/preprofile.php</a>
	<b>TEQIP-III Workshop Expert</b> <b>Dr. Nikhil Marriwala</b> Assistant Professor, ECE Dept., Kurukshetra University	<a href="http://uietkuk.atwebpages.com/ecefaculty.html">http://uietkuk.atwebpages.com/ecefaculty.html</a>