I.T.S ENGINEERING COLLEGE
GREATER NOIDA
(A NAAC Accredited Engineering College)

The Education Group
Ghaziabad • Greater Noida
(Estd. : 1995)

Work Report

Name of Event: One Day Workshop on "Advancement in Industrial Automation & Control".

Date of Event: Oct 22, 2019

Organized by: Rockwell Automation, Centre of Excellence, EEE Department, I.T.S Engineering College Greater Noida

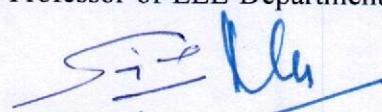**Event Coordinator:** Mr. Rajiv Ranjan

Objective:

- To enhance skill of students & faculty members in the field of PLC, SCADA & HMI.

Report:

The Rockwell Automation, Centre of Excellence ,Department of Electrical & Electronics Engineering, I.T.S. Engineering College organized One Day Workshop on "Advancement in Industrial Automation & Control" on October 22, 2019 which was attended by 44 students , 8 faculty members and 2 Lab technician.

The event was started with Saraswathi Vandana and an introductory speech by Dr. Vikas Singh, Executive Director, I.T.S Education Group. Prof. Upendra K. Agarwal, HOD, EEE department, I.T. S. Engineering College welcomed the chief guest Mr. Umesh Kumar, Automation Expert, VS Automation Pvt. Ltd. Delhi, with a flowers bouquet. The workshop was started by honourable guest Mr. Umesh Kumar and most of the students are enlightened by his expertise. In the workshop, he guided and motivated the students by sharing his experiences with students. Students from different engineering branches as Mechanical, Civil, Computer Science, Electronics and Electrical, got opportunity to work on PLC, HMI & SCADA based industrial projects. All faculty members from different departments, whose area of interest is Automation, also attended the program. It was very prestigious for ITS Engineering College to have such dignified and very knowledgeable expert in the field of Automation. Dr. Vikas Singh, Executive Director of ITS Engineering College gave Token of Appreciation to Mr. Umesh Kumar.

Finally, Mr. Rajiv Ranjan, Assistant Professor of EEE Department, ITS Engineering College, gave a Vote of Thanks speech.
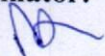
Director
ITS Engineering College
Greater Noida

Program Outcome:
    Students & Faculty members upgraded their knowledge in the field of PLC, SCADA & HMI
Scope of Improvement: To organize the workshop for long duration.

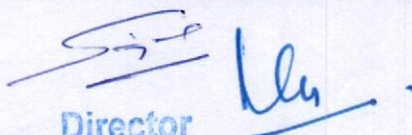**No. of participants:** 44 students, 8 faculty members and 2 Lab technician.

Coordinator:

(Rajiv Ranjan)
Asst. Prof.
EEE Dept.

Director
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Greater Noida

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Name of Event:
2 days Control system and Simulation

Date of Event:
4 -5 Oct2019

Organized by:
ECE Department at NI Innovation Center, COE.

Event Coordinator:
Mr. Nitesh Pradhan

Objective:
2 DaysWorkshop on**Control system and Simulation**for 2nd&3rdyear ECE& EEEstudent to get specialized to get Control system and Simulation toolkiton LabVIEW.

Report: The Department of Electronics and Communication Engineering of I.T.S Engineering college,Greater Noida, organized2 days workshop on"Signal Processing"by Mr. Nitesh Pradhan (Certified LabVIEW Trainer) at NI Innovation Center, Center of Excellence on4 -5 Oct2019. The workshop was based on Control system and Simulationof LabVIEW Platformto learn how to design signal, how to process & store it and how to apply the concept of signal processing.There were 16students attended the Workshop from ECE and EEE.
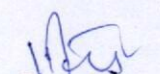
Outcomes:

- The student learns aboutControl system and SimulationLabVIEWand Acquire knowledge.
- Students has designed more than 25 simulation program Program during training program.
- Student can use the Control system and Simulation toolkit for their subject lab
- This training program will help yours student in their Control system and SimulationSubjects also student will a good practical approach in their Placement time

No. of Student attended: 21

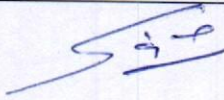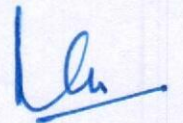| S.N	Branch	No of student	College
1	4th year ECE	9	I.T.S Engg
2	3rd Year ECE	12	I.T.S Engg

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Greater Noida

Coordinators
(Nitesh Pradhan)

Control system and Simulation
Workshop / Training Plan

Day/ Time	9:10 to 11:00	11.10 to 12.30	13:30 to 15 :00	15.10 to 16:50
Day 1	Introduction about LabVIEW	Control system	Model Design	Programming
Day 2	Control Design	Simulation	PID Controller	Programming

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Name of Event:
2DaysReal Time Data AcquisitionWorkshop
Date of Event:
Sept 28 & 29, 2019
Organized by:
ECE Department at NI Innovation Center, COE.
Event Coordinator:
Mr. Nitesh Pradhan

Objective:

2 DaysWorkshop on*Real Time Data Acquisition*Using NI myDAQfor 2nd&3rdyear ECE&
EEEstudent to get specialized to get Data Acquisition, connection of sensor and storage in pc.

Report: The Department of Electronics and Communication Engineering of I.T.S Engineering
college,Greater Noida, organized2 days' workshop on*"Real Time Data Acquisition"*by Mr. Nitesh
Pradhan (Certified LabVIEW Trainer) at NI Innovation Center, Center of Excellence onSept 28 & 29,,
2019. The workshop was based on NI myDAQ, NI DAQmx and Instrumentation I/O toolkits of
LabVIEW Platform. Student acquire 1 channel 1 sample, 1 channel N sample, N channel N sample
analog Data. There were 48 students attended the Workshop from ECE Department.

Outcomes:

After attending this course, participant able to:
- Develop integrated, high-performance data acquisition systems that produce accurate
  measurements
- Acquire data from sensors, such as thermocouples and strain gages, using NI data acquisition
  hardware
- Apply advanced understanding of LabVIEW and the NI-DAQmx API to create applications
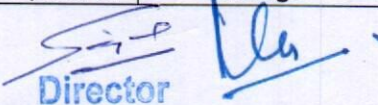- Eliminate measurement errors due to aliasing and incorrect signal grounding

Coordinators
(Nitesh Pradhan)

No. of Student attended: 48

Workshop Plan

Real Time Data Acquisition			
Workshop / Training Plan			
Day/Time	9:10 to 11:00	11.10 to 12.30	13:30 to 15 :00	15.10 to 16:50
Day 1	Introduction about LabVIEW	my DAQ connection	Simulated DAQ	Data Acquisition
Day 2	Sensor study	Data Acquisition	Storage	Programming

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Name of Event:
2 daysSignal Processing Workshop

Date of Event:
Sept 21& 22, 2019

Organized by:
ECE Department at NI Innovation Center, COE.

Event Coordinator:
Mr. Nitesh Pradhan

Objective:

2 DaysWorkshop on**Signal Processing**for 2nd&3rdyear ECE& EEEstudent to get specialized to get Signal Processing toolkits on LabVIEW.

Report: The Department of Electronics and Communication Engineering of I.T.S Engineering college,Greater Noida, organized2 days workshop on"Signal Processing"by Mr. Nitesh Pradhan (Certified LabVIEW Trainer) at NI Innovation Center, Center of Excellence onSept 7-8, 2019. The workshop was based on Signal Processing toolkit's of LabVIEW Platformto learn how to design signal, how to process & store it and how to apply the concept of signal processing.There were 30students attended the Workshop from ECE and EEE.

Outcomes:

- The student learns aboutSignal Processing toolkit on LabVIEWand Acquire knowledge.
- Students learns how to design signal, how to process & store it and how to apply the concept of signal processing,
- Students has designed more than 30 Program during training program.
- Student learns about how to design circuit and use in practical and theory.
- This training program will help yours student in their Signa Processing & Signal System Subjects also student will a good practical approach in their Placement time

Scope of Improvement:

- The hands-on training sessions and interactive sessions could be given more importance.

No. of Student attended: 30

Coordinators
(Nitesh Pradhan)

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Name of Event
2 Days Basic LabVIEW Workshop

Date of Event:
8th & 9th August 2019

Organized by: ECE Department at NI Innovation Center.

Event Coordinator: Mr. Nitesh Pradhan,
Objective: 2 Days Basic LabVIEW Workshop

Report:

The Department of Electronics and Communication Engineering of I.T.S Engineering College, Greater Noida, organized 2 Days Basic LabVIEW Workshop. This Workshop was coordinated and conducted by Mr. Nitesh Pradhan Coordinator of NI Innovation Center on 8th & 9th August 2019. The program was based on LabVIEW Programming platform which is product of National Instruments .

No. of Students attended: 40

S.N	Branch	No of student	College
1	3rd year ECE	12	I.T.S Engg
2	2nd Year ECE	28	I.T.S Engg
3	4th Year ECE	0	I.T.S Engg

Outcomes:

- Student learns about Graphical Programming
- Now student able to design their basic program using data type.
- Student able store data in hardware

Coordinators
(Nitesh Pradhan)

Program Outline

S.No	Topic 9.10 AM- 12.30PM	Topic 1.00 PM- 4.50 PM
1	Introduction of LabVIEW	Numeric and Boolean data type
2	String, array and dynamic data type	Folder, Project & VI

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