

Report on Industrial IoT using NI Graphical System Design Platform

Title: A three-day Faculty Development Program on “Industrial IoT using NI Graphical System Design Platform”

Date(s): 13th to 15th JULY 2017

Preamble:

A three-day Faculty Development Program on “Industrial IoT using NI Graphical System Design Platform” was organized by Department of EEE & ECE in collaboration with APITA from 13th to 15th July 2017, at Andhra Loyola Institute of Engineering and Technology, to introduce the participants to the amazing world of IoT and its fascinating applications.

Participant’s profile: 30 faculty of ECE and EEE departments of Andhra Loyola Institute of Engineering and Technology (ALIET) and Faculty from outside colleges, participated in the Program.

Description about the program:

IoT is the idea of making devices and objects smarter by linking them to the internet. This technology frontier (IoT) with immense engineering applications is the need for today’s industry and academia. This FDP serves as a platform to train and educate the research scholars, faculty, and people from industry to interact on cutting-edge technologies in this emerging area. Dasari Anvesh and Dr. Vasanth Kumar have acted as Resource Persons.

Major Course Content:

- 1) Introduction to IoT, Current products, Open source electronics for IoT, IoT languages and its tools.
- 2) Introduction to Industrial IoT, Graphical System
- 3) Design Platform for Industrial IoT, LabVIEW based Web Services.
- 4) Hands on session on Graphical System Design Platform (NI LabVIEW), Realtime Data Handling using LabVIEW.
- 5) Configuring and Programming of RIO hardware, IoT with RIO Platform, Hands on session on Remote Monitoring and Control/Industrial Automation, Wireless Sensor Networks (WSN) and Zigbee (IEEE 802.15.4)

Learning Outcomes:

- 1) Real-time Data Handling using LabVIEW
- 2) Hands on Experience on Remote Monitoring and Control/Industrial Automation, Wireless Sensor Networks (WSN) and Zigbee (IEEE 802.15.4)



ముగిసిన అధ్యాపకుల సదస్సు



గుణదల (రామవరప్పాడు) : రెండు రోజులుగా అయోలా ఇంజనీరింగ్ కళాశాలలో 'ఇండస్ట్రీ యల్ ఐటీ ఆన్ ఎన్ఎ గ్రాఫికల్ సిస్టం డిజైన్ ప్లాట్ఫారం' అనే అంశంపై జరుగుతున్న అధ్యాపకుల సదస్సు శుక్రవారంతో ముగిసింది. సదస్సుకు హాజరైన అధ్యాపకులకు పలు అంశాలపై ప్రాక్టికల్స్ నిర్వహించారు. అధ్యాపకులకు ఐటీ (ఇంటర్నెట్ ఆఫ్ థింగ్స్) ప్రాముఖ్యత గురించి గెస్ట్ లెక్చర్ నిర్వహించారు. ఈ కార్యక్రమానికి ముఖ్య అతిథిగా హాజరైన ఏపీ ఇన్ఫర్మేషన్ టెక్నాలజీ డైరెక్టర్ రాధాకృష్ణ మాట్లాడుతూ ఐవోటీ టెక్నాలజీను కొన్ని పరిశ్రమల్లో యంత్రాలను నియంత్రించడానికి ఉపయోగిస్తున్నారని తెలిపారు. అధ్యాపకులు నూతన విషయాలను నేర్చుకుని విద్యార్థులను ప్రభావితం చేయాలని సూచించారు. ఈ కార్యక్రమంలో ఏపీఐటీఎ సీనియర్ కన్వెంట్ విన్నీ పాత్రో, ట్రైపుల్ఈ విభాగాధిపతి అశోక్ కుమార్, ఈసీఈ విభాగాధిపతి రామకృష్ణ, కార్యక్రమ సమన్వయకర్త కృష్ణమోహన్, వివిధ

ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY::VUJAYAWADA
A THREE DAY FACULTY DEVELOPMENT PROGRAM

Industrial IoT using NI Graphical System Design Platform

S No	Faculty Details			Designation	Department	College Name	District	SIGNATURE OF THE FACULTY		SIGNATURE OF THE FACULTY	
	First Name	Middle Name	Last Name (Surname)					14-07-17		15-07-17	
								FN	AN	FN	AN
1	B	Rajasekhar	Reddy	Asst. Professor	ECE	Narasaraopeta Institute of Technology	Guntur				
2	A.N.P	Srinivas	Guptha	Asst. Professor	ECE	Narasaraopeta Institute of Technology	Guntur				
3	Bhushi	Reddy	Vuyyuru	Asst. Professor	ECE	Loyola Institute of Technology and Management	Guntur				
4	Joseph	Anil	Iakkakula	Asst. Professor	EEE	Loyola Institute of Technology and Management	Guntur				
5	VASANTHI		JANJANAM	Asst. Professor	EEE	BAPATLA WOMEN'S ENGINEERING COLLEGE	Guntur				
6	KALYANI		GUMMA	Asst. Professor	ECE	BAPATLA WOMEN'S ENGINEERING COLLEGE	Guntur				
7	Surekha		Vadde	Asst. Professor	EEE	Kalam Haranadhareddy institute of technology	Guntur				
8	Anil Kumar		R	Asst. Professor	ECE	Sri Mittapalli college of Engineering	Guntur				
9	Rammohana	Rao	M	Asst. Professor	ECE	Sri Mittapalli college of Engineering	Guntur				
10	Sarath	Kumar	Annavarapu	Asst. Professor	ECE	KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES	Guntur				
11	Sarath	Bhushan	K	Asst. Professor	EEE	KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES	Guntur				
12	Venkatesh		Jonnalagadda	Asst. Professor	EEE	Sri Vishnu Engineering College for Women	West Godavari				
13	Krishna Madav		D	Asst. Professor	ECE	Sri Vishnu Engineering College for Women	West Godavari				
14	Sunil	Babu	M	Asst. Professor	ECE	Vasireddy Venkatadri Institute of Technology	Guntur				
15	Vineela		J	Asst. Professor	ECE	Vasireddy Venkatadri Institute of Technology	Guntur				
16	VDP	MURTHY	NANDIVADA	Asst. Professor	ECE	Ranchandra College Of Engineering	West Godavari				
17	RAGHU	RAM	RELLA	Asst. Professor	ECE	Ranchandra College Of Engineering	West Godavari				
18	ASHOK	KUMAR	BANDLA	Asst. Professor	EEE	Ranchandra College Of Engineering	West Godavari				
19	RAMANJANEYA	BALUSULARAO	MALUKURTHI	Asst. Professor	EEE	Sri Venkateswara Institute of Science & Information Technology	West Godavari				
20	SEKHAR BABU		KURMA	Asst. Professor	EEE	Sri Venkateswara Institute of Science & Information Technology	West Godavari				
21	VADDI	KASULU	GOVADA	Asst. Professor	EEE	VIKAS GROUP OF COLLEGE	KRISHNA				
22	ASHOK	CHAKRAVARTHY	PAMARTHY	Asst. Professor	ECE	VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY	KRISHNA				

GEORGE	MAGULURI	Asst. Professor	ELECTRONICS	NALANDA DEGREE COLLEGE	KRISHNA	MA	MA	MA	MA
24	ANATHA LAKSHMI	VENCHERLA	Asst. Professor	EEE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
25	VAISHNAVI	VANGIPURAM	Asst. Professor	EEE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
26	KRISHNA MOHAN	MOORATHOTA	Asst. Professor	ECE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
27	AZEEM	ABDUL	Asst. Professor	ECE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
28	HEMA	MAREEDU	Asst. Professor	ECE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
29	KRISHNA MOHAN	TATKONDA	Asst. Professor	EEE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
30	BOSU BABU	PARISA	Asst. Professor	ECE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
31	RAMA KRISHNA	MEKALA	Asst. Professor	EEE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
32	SUNDAR SRINIVAS	KUCHIBHOTLA	Asst. Professor	ECE	Potti Srinimulu College of Engineering and Technology	KRISHNA	MA	MA	MA
33	RAJESH BABU	KANCHANA	Asst. Professor	EEE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
34	KARUNAKAR	LANKA	Asst. Professor	EEE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
35	GANTAIAR SWAMY	GARIKA	Asst. Professor	EEE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
36	VENKATESH	GUMMADI	Asst. Professor	EEE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
37	MALLIKARJUNA RAO	SATHULURI	Asst. Professor	ECE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
38	PAVAN KUMAR	Y	Asst. Professor	ECE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
39	BUJJI BABU	N	Asst. Professor	ECE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
40	SANTHI KIRAN	B	Asst. Professor	ECE	ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY	KRISHNA	MA	MA	MA
41	Murali	Krishna	Paruluri	Asst. Professor	ECE	Sri Vasavi Engineering College	West godavari	MA	MA
42	Narasimha	Swamy	Korrapolu	Asst. Professor	EEE	DVRAD: H S MIC College of Technology	Krishna	MA	MA
43	Veenanand	Kakarla	Asst. Professor	ECE	DVRAD: H S MIC College of Technology	Krishna	MA	MA	MA

CHIEF PATRON

Rev. Fr. Dr. A. Francis Xavier, S.J
Secretary & Director

CHAIRMAN

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Principal

PATRON

Fr. M. L. Thomas, S.J
Assistant Director
Fr. J. Chiranjeevi, S.J
Assistant Director

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HOD, Department of EEE
Prof. M. Rama Krishna,
HOD, Department of ECE

ADVISORY COMMITTEE

Dr. G. Naveen Kumar, Professor, EEE.
Dr. G. Hari Prasad, Professor, ECE.
Dr. K. Prasanthi Jasmine, Professor, ECE.

CO-ORDINATORS

Mr. T. Krishna Mohan
Assistant Professor, Department of EEE
Mr. P. Bose Babu
Assistant Professor, Department of ECE

ORGANIZING COMMITTEE

Faculty Members of EEE & ECE Department

IMPORTANT DATES

Last date for Registration : 08th July 2017

REGISTRATION FEE

This Faculty Development Program on 'Industrial IoT using NI Graphical System Design Platform' is funded by the AP Govt on Education through APITA, therefore there is no course fee for participation. It includes to provide tea/lunch on each day of the FDP.

HOW TO APPLY?

A filled-in form of application in the prescribed format duly signed and sponsored by appropriate authorities should reach the coordinator on or before the last date by post/courier 08th July, 2017.

ADDRESS FOR COMMUNICATION

Mr. T. Krishna Mohan 9908039885
Assistant Professor, EEE Department
Mr. P. Bose Babu 9440729045
Assistant Professor, ECE Department

Email: alieteeehod@gmail.com,

aliet.ecehod@gmail.com

For detailed information go through the college web site: www.aliet.ac.in

Limited Number of Registrations are Available

A Three Day Faculty Development Program

On

"Industrial IoT using NI Graphical System Design Platform"



on

13th, 14th & 15th July 2017

Organized by

Department of EEE & ECE

In collaboration with



Andhra Pradesh
Information Technology Academy

ANDHRA LOYOLA

INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, Affiliated to JNTUK)

Polytechnique Post Office Road, Beside Kaladarsini,

Krishna (Dist.), Andhra Pradesh-520 008

Ph: 0866-2476161

ABOUT THE COLLEGE

Andhra Loyola Institute of Engineering and Technology (ALIET) is a sister institution of the reputed Andhra Loyola College, Vijayawada. These two institutions are administrated and run by Loyola College Society, Guntur-Vijayawada.

ALIET was approved by AICTE- New Delhi, on 04-06-2008 and is also an ISO 9001:2008 certified institution. The institution is recognized by the government of Andhra Pradesh and affiliated to JNTUK. The institute is offering 6 UG programs an intake of 540 (CSE-120, ECE-120, EEE-60, MECH-120, CIVIL-60 & IT-60), 2 PG programs (1 M.Tech. (DECS-18) & MBA (60)). Our institute is partially running with the solar power.

ABOUT EEE DEPARTMENT

The Department of EEE has been offering a full time four year B.Tech Degree course since the inception of the institution. The department is provided with all required infrastructural facilities like well equipped laboratories, well qualified & dedicated faculty and technically sound supporting staff. It is continuously striving to impart quality education and competitive spirit among students for academic excellence. Many of our students' have been published papers in various national & international technical symposiums. The Department offers placements in various MNCs and Core companies.

The Department of ECE offers one UG and one PG Programme. The department is provided with all required infrastructural facilities like well-equipped laboratories, well qualified & dedicated faculty and technically sound supporting staff. As part of the curriculum from the academic year 2015-2016, the Dept of ECE has collaborated with APSSDC for implementing the projects. This program enriches students with theoretical and practical skills that are required in different spheres of Electronics, Communication, Instrumentation and Control. It enables students to pursue a career in the measurement and control of Hardware and Software Industries.

Objectives of the FDP

The aim of this programme is to introduce the participants to the amazing world of IoT and its fascinating applications. IoT is the idea of making devices and objects smarter by linking them to the internet. This technology frontier (IoT) with immense engineering applications is the need for today's industry and academia. This FDP serves as a platform to train and educate the research scholars, faculty, and people from industry to interact on cutting-edge technologies in this emerging area.

Major Course Content:

- Introduction to IoT, Current products, Open source electronics for IoT, IoT languages and its tools.
- Introduction to Industrial IoT, Graphical System Design Platform for Industrial IoT, LabVIEW based Web Services.
- Hands on session on Graphical System Design Platform (NI LabVIEW), Real-time Data Handling using LabVIEW.
- Configuring and Programming of RIO hardware, IoT with RIO Platform, Hands on session on Remote Monitoring and Control/Industrial Automation, Wireless Sensor Networks (WSN) and Zigbee (IEEE 802.15.4)

Eligibility:

This program is open to all the EEE & ECE department PG students, faculty members, Research Scholars and Engineers from industries.

REGISTRATION FORM

A Three Day Faculty Development Program

On

"Industrial IoT using NI Graphical System Design Platform"

1. Name of the Participant:
2. Designation:
3. Name of the Organization:
4. Address for Communication:

5. Mobile:

6. E-mail:

7. Registration Fee Details, Amount _____

Signature of the Participant

PERMITTING AUTHORITY:

Mr/Ms _____
employed as _____ in our
college / organization is permitted to attend the National
level workshop.

Place:

Date:

Signature of permitting authority with seal

Future Perspectives: Looking forward to train and educate the research scholars, faculty in emerging areas.


PRINCIPAL
ANDHRA LOYOLA INSTITUTE OF
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