



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
*One Day Workshop on*  
*“Advanced Industrial Robotics and Automation” on 22.02.2019*

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REPORT

The department of Electrical and Electronics Engineering and ISTE Student branch -TN 217 has jointly organized a one day workshop on “*Advanced Industrial Robotics and Automation*” on 22.02.2019. The main objective of this workshop is to create an idea of advanced automation using PLC, SCADA, New robot program development techniques such as robot calibration functions, robot offline programming (OLP) software, robot vision data integration and robot torque sensing to the students of engineering domain.

**Resource persons:**

Session 1 : Introduction about Automation, PLC Programming, HMI and its applications by Mr.Mohamed Rafeeq, Industrial trainer, AGIIT, Trichy.

Session 2: Industrial Robotics and SCADA and Screen development, robot calibration functions, robot offline programming and Practical session by Mr.Mohamed Rafeeq, Industrial trainer, AGIIT, Trichy.

Session 3:PLC module and design, Vision of the future of Automation by Mr.K.Amirtha Ganesh, Managing director, AIA,Thanjavur.

**Convener:**

Dr.A.Albert Martin Ruban, Associate Professor & Head / EEE

**Coordinators:**

1. Mr.R.Sundaramoorthi, Assistant Professor / EEE
2. Mr.C.John selva raj, Assistant Professor / EEE

**Inaugural Session:**

Inaugural session was started by 10.15 A.M preside over by Dr.S.Sivakumar, Vice Principal, T&P Head.The dignitaries on the Dais during the inaugural session were, Dr.A.Albert Martin Ruban, Head / EEE, Resource person Mr. Mr.Mohamed Rafeeq, Manager, AGIIT and the Program Coordinators Mr.R.Sundaramoorthi and Mr.C.John selva raj. The program was started by Thamizh Thaaai Vaazthu followed by Welcome address delivered by Dr.A.Albert Martin Ruban, Head / EEE AP/EEE and Introdcion about workshop has delivered by Mr.R.Sundaramoorthi, Assistant Professor/EEE.

## **Participants :**

External : 40

Internal : 07

Total : 47

## **Session 1- Introduction about Automation, PLC Programming, HMI and its applications by Mr.Mohamed Rafeeq, Industrial trainer, AGIIT, Trichy**

In the first session, resource person has started about the Introduction of Automation, PLC Programming, PLC Architecture, Parts of Programmable controller. He also delivered the lecture on Industrial robotics design and modules with animation videos. During this session, the participants were actively interacted with the resource person.

## **Session 2: Industrial Robotics and SCADA and Screen development, robot calibration. functions, robot offline programming and Practical session by Mr.Mohamed Rafeeq, Industrial trainer, AGIIT, Trichy**

During the second session resource person has interacted with the participants. Laboratory session was conducted through PLC Kit demonstration. He also delivered software description and hardware configuration. Finally he has mentioned that Industry 4.0 requirements and Job opportunities in Automation sector. The session was very informative and the participants were interacted with the resource person.

## **Session 3: PLC module and design, Vision of the future of Automation by Mr.K.Amirtha Ganesh, Managing director, AIA, Thanjavur**

After the Lunch break, Mr.K.Amirtha Ganesh, Managing director, AIA, Thanjavur has delivered the lecture on Advance Industrial Automation and demonstrated some Industrial projects using PLC Kit. During this session, resource person has elaborated the components required for different applications in various projects using PLC Module. All the Participants were actively participated. This session was very interactive.

## **Valedictory Function:**

The feedback from the participants was collected. Mr.C.John selvaraj, AP/EEE delivered the vote of thanks. The dignitaries issued certificates to all the participants. Finally the program ended with National anthem

## Event Photographs:



Welcome address delivering by Dr.Albert Martin Ruban  
HoD/EEE



Presidential Address by, Dr.S.Sivakumar, Vice Principal and  
Head/T&P, KCE



Resource person demonstrating PLC Kit  
during Practical Session.



Participants receiving certificates during  
Valedictory function