



Jansons Institute of Technology

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Accredited by NAAC and ISO 9001:2015 certified Institution
Coimbatore, Tamil Nadu – 641659
www.jit.ac.in



Event Report

Title : Industrial Automation Using Arduino

Date (from & to) : 04/03/2022 **Time** (from & to) : 9:00AM to 3:00PM

Venue (online / offline) : ECE - Network Laboratory

Organised by : Entrepreneurship Development Cell

In association with : JIT - Institution Innovation Cell

Student Activity : Yes / No

Speaker Details

Name : Dr.P.Gowtham,

Designation : Associate Professor,

Affiliation : Jansons Institute of Technology,
Karumathampatti, Coimbatore.

Topic : “Industrial Automation Using Arduino”



JIT Website



<https://www.facebook.com/Jansons-Institute-of-Technology-250442415535499/photos/1054430661803333>

<https://www.instagram.com/p/Cao-plyP-UF/?igshid=MDJmNzVkMjY=>
https://twitter.com/JIT_Off/status/1499348536575475712/photo/1

Event Objective

Innovation in industrial automation and production processes enhances labour efficiency and allows cutting net cost and improving product quality.

In this workshop the students have learned basics concepts industrial process like speed control of DC motor, Relay switching and used in other applications by using AT mega 328 Arduino Microcontroller.

Event Summary

Industry are gradually shifting from conventional switches to centralized control system, involving in Automation Process. In this workshop Students learned about basics of Arduino programing and it's an open source computer hardware and software company, project, and user community that designs and manufactures single-board microcontroller kits for building digital devices and interactive objects that can sense and control objects in the physical and digital world. Arduino boards are available commercially in preassembled form, or as do-it-yourself (DIY) kits.

The Arduino Uno is connected to ESP8266 board to connect to Wi-Fi. The ESP8266 will be used to connect to Wi-Fi and the server and communicate with it through MQTT Protocol. The ESP8266 is connected via serial interface. The system I made will monitor the temperature and pressure using LM35 and the humidity using DHT11. Students has learned and understand the basics concept about Arduino AT mega 328 microcontroller.

Event Photographs



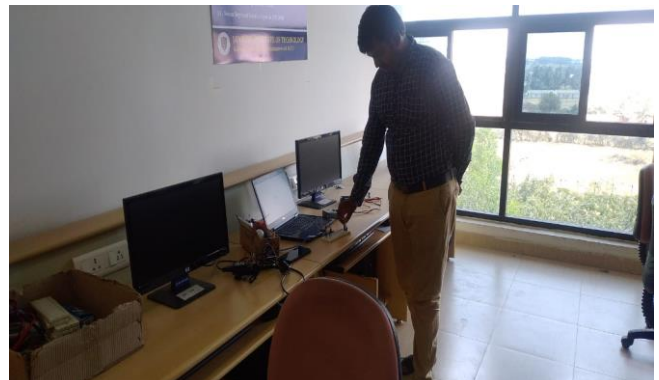
Workshop Flyer



Dr.M.V.Sureshkumar, JIT Director, Address the Gathering



Hands on Training Handled by Dr.P.Gowtham, ASP/ECE.



Arduino Installation and Demonstrated by Mr.S.Prakash,AP/ECE.



Workshop Certificate



Group Photo With Plato School Students

Event Outcomes

- This workshop was of great use for the School students, it helped them figure out the exact use of innovation in industrial automation in today's world.
- It also helped them to learn about Arduino fundamentals and wireless sensor ESP8266 Wi-Fi module also how to work on real time environment.

Event Feedback


How would you rate the event in terms of preparation, flow, and content?	<table border="1"> <thead> <tr> <th>Rating</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>Excellent</td> <td>4.5</td> </tr> <tr> <td>Very Good</td> <td>3.5</td> </tr> <tr> <td>Good</td> <td>2.5</td> </tr> <tr> <td>Fair</td> <td>0</td> </tr> </tbody> </table>	Rating	Count	Excellent	4.5	Very Good	3.5	Good	2.5	Fair	0
Rating	Count										
Excellent	4.5										
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The content and activities of the event has increased my knowledge.	<table border="1"> <thead> <tr> <th>Rating</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>Strongly Agree</td> <td>4.5</td> </tr> <tr> <td>Agree</td> <td>4.3</td> </tr> <tr> <td>Neutral</td> <td>0</td> </tr> <tr> <td>Disagree</td> <td>0</td> </tr> </tbody> </table>	Rating	Count	Strongly Agree	4.5	Agree	4.3	Neutral	0	Disagree	0
Rating	Count										
Strongly Agree	4.5										
Agree	4.3										
Neutral	0										
Disagree	0										
How would you rate the speaker in terms of knowledge and presentation?	<table border="1"> <thead> <tr> <th>Rating</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>Excellent</td> <td>5</td> </tr> <tr> <td>Very Good</td> <td>3.5</td> </tr> <tr> <td>Good</td> <td>0</td> </tr> <tr> <td>Fair</td> <td>0</td> </tr> </tbody> </table>	Rating	Count	Excellent	5	Very Good	3.5	Good	0	Fair	0
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Overall experience of the event.	<table border="1"> <thead> <tr> <th>Rating</th> <th>Count</th> </tr> </thead> <tbody> <tr> <td>Very Satisfied</td> <td>4.5</td> </tr> <tr> <td>Satisfied</td> <td>3</td> </tr> <tr> <td>Neutral</td> <td>1</td> </tr> <tr> <td>Dissatisfied</td> <td>0</td> </tr> </tbody> </table>	Rating	Count	Very Satisfied	4.5	Satisfied	3	Neutral	1	Dissatisfied	0
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Satisfied	3										
Neutral	1										
Dissatisfied	0										
Suggestion for Improvements (If any)											

No. of Participants / Benefices

Total (Participants / Benefices)	Students	Faculty	Students (Outside institution)	Faculty (Outside institution)
45	18	3	22	02

Date of report submission: 07/03/2022.


Student Coordinator
 (S.Gokul Krishnan)


Faculty Coordinator
 (Dr.P.Gowtham)


PRINCIPAL
JANSONS INSTITUTE OF TECHNOLOGY
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Principal
(Dr.V.Nagarajan)