# KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE- 638060

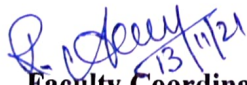## Department of Information Technology

### Five Days National Workshop
### on
### Zero coding:Data analysis for IoT in Node Red

A National Level 5 days online workshop on Zero coding: Data analysis for IoT in Node Red was conducted from 20.10.2021 to 24.10.2021. In this workshop, 19 participants have attended from various colleges. Node-RED is the leading software in the industrial sector to develop IoT applications that allow to inter connect physical assets to cloud platforms and IT systems. This workshop is organised for the students from various colleges. Hands-on experience on Node-Red open source tool for IOT automation is given. By attending this workshop students can able to build workflows for IoT scenario by this visual tool.

**Faculty Coordinator**
( Ms . R.cAauthi )

**HOD/IT** 13/11/21

**Five Days**
**National Workshop**
**On**

## "Zero Coding : Data Analysis for IoT using Node-Red"
### (20.10.2021 to 24.10.2021)

## Coordinators

**Dr.M. Thangamani**
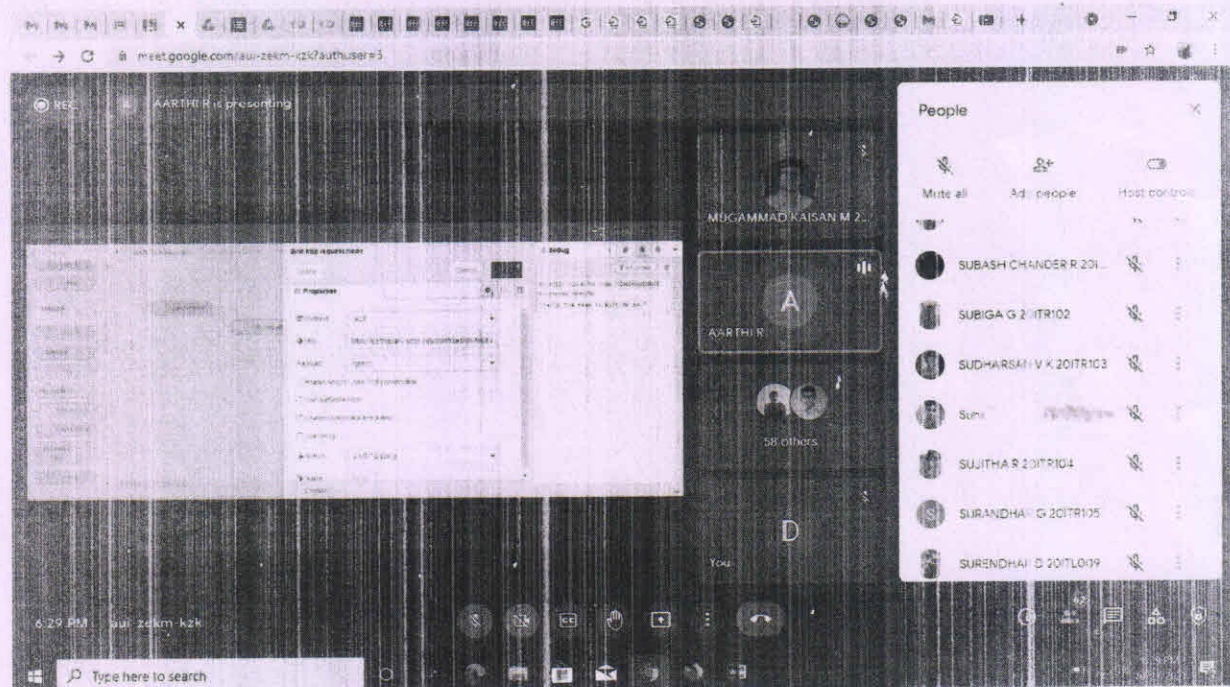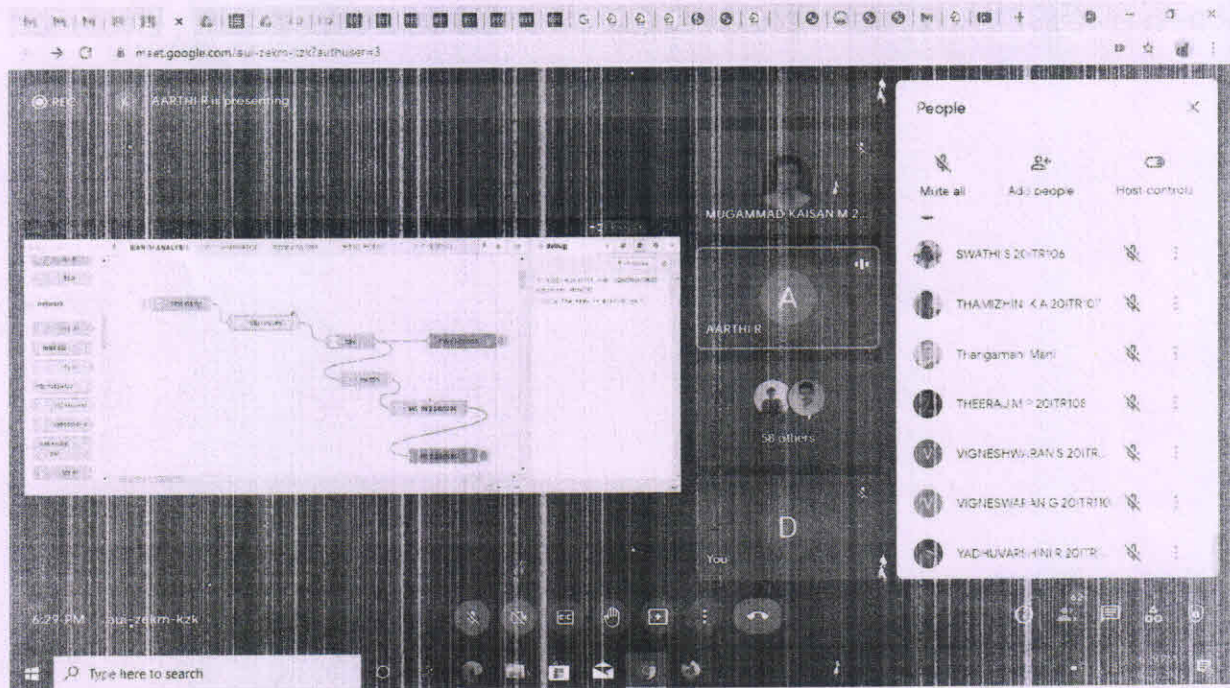Associate Professor/IT

**N. Adhithyaa M.Tech., (Ph.D).,**
Assistant Professor /IT

**R. Aarthi M.E.,**
Assistant Professor /IT

Department of Information Technology.
**Kongu Engineering College**
Perundurai – 638060, Erode, TamilNadu

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E-mail: manithangamani2@gmail.com
Website: www.kongu.ac.in

KONGU
*Assuring the Best*

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### ABOUT THE COLLEGE

Kongu Engineering College (KEC) established in 1984, approved by AICTE, New Delhi, accredited by NAAC for 5 years with the grade of "A" and an autonomous institution affiliated to Anna University Chennai, has completed 37 years of dedicated and excellent service in the field of technical education. The college offers 14 UG, 19 PG and 16 research programmes in Engineering and Applied Sciences. It is one of the best self financing engineering colleges imparting high quality technical education in Tamil Nadu, India, and is well-known for its technical excellence, modern facilities, record of performance with excellent results and enterprising students. Ranked 1st Position in Tamilnadu and 39th position at all India level by "Outlook" magazine, 3rd Position in Tamilnadu and 32nd Position in private Engineering colleges in India by "The Week" Magazine. Ranked 135th position in private Engineering colleges in India by NIRF ranking. It has an active Industry- Institute Partnership (IIP) Cell to interact with industries. Received Sustainable Institute Industry Partnership Award consecutively for two years (2014 & 2015) from the Institution in Society for Educational and Entrepreneurship Development, Chennai. It has got NBA accreditation for most of the UG programmes and is an ISO certified institution. It has also got the Best Engineering College award and the Best Principal Award from ISTE. It has established a Technology Business Incubator (TBI) supported by the Department of Science and Technology, Government of India, and won the National Award presented by the President of India on Technology Day in New Delhi. Kongu Engineering College has been awarded as the Most Clean Campus for the Year 2017 by AICTE.

### ABOUT THE DEPARTMENT

The Information Technology department occupies a prominent place in the chronicles of its academic history. The department has been consistently producing illustrious Engineering graduates of high caliber who occupy prestigious positions in the academic and industrial fields. The specialization of the faculty includes Artificial Intelligence, Machine Learning, Deep Learning, Intelligent Transportation Systems, Vehicular Ad-Hoc Networks, Mobile Ad-Hoc Networks, Sensor Networks, Computational Theory, Compiler Optimization, High Performance Computing, Human Computer Interaction etc. The department offers four year UG programme in IT and two year PG programme in IT. The department is also carrying out many consultancy activities like app and website development to many industries. IT Department of Kongu Engineering College has bagged the award under the category "Best Department of the Academic year 2018-2019", on the annual function of our college day. .

### ABOUT THE LOCATION

The college is situated at Perundurai on the National Highway (NH 47) about 80 km from Coimbatore and 20 km from Erode.

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### DECLARATION

The above information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the programme for the entire duration. I also undertake the responsibility to inform the Coordinator in case I am unable to attend the course.

Place:

Date:                          Signature of the Applicant

### SPONSORSHIP CERTIFICATE

Mr/Ms/Dr_____

is an employee of our Institute / Organization and is hereby sponsored. He/She will be permitted to attend the programme in full, if selected.

Place:            Signature of the Sponsoring Authority

Date:            Office Seal

Application form completed in all respects is

to be sent to:

**Dr.M. Thangamani Ph.D.,**
**Associate Professor**
**Convener**
**Five Days National Level Workshop on**
**"Zero Coding : Data Analysis for IoT using Node-Red"**
**(20.10.2021 to 24.10.2021)**
Department of IT
Kongu Engineering College
Perundurai, Erode-638 060, Tamilnadu
**Contact Mobile** – 9715781007, 7845243520,
9842571555
**E-mail:**manithangamani2@gmail.com.

Convener 13/11/21

HOD/IT 13/11/21

# KONGU ENGINEERING COLLEGE, PERUNDURAI-638 060

## Department of Information Technology

5 days National Workshop on Zero Coding: Data Analysis for IoT using Node-Red
(20.10.2021 to 24.10.2021) - Registered Candidates

| S. No | Name | College | Designation |
|---|---|---|---|
| 1 | Monisha M | Paavai Engineering college, Namakkal | Student |
| 2 | Kaviya S | Erode sengundhar engineering college | Student |
| 3 | Soundariya B | Paavai engineering college | Student |
| 4 | Revathi N | paavai Engineering college | Student |
| 5 | Kiruthiga B | Muthayammal Engineering College, Rasipuram | Assistant Professor |
| 6 | Dhanush M U | Erode sengunthar engineering college | Student |
| 7 | Dinesh P V | Erode sengunthar engineering college | Student |
| 8 | Gireeshma S | Erode Sengunthar Engineering College | student |
| 9 | PullaguraNarasimha Raju | Kalasalingam academy of research and education | Student |
| 10 | Siva Karthick | Paavai Engineering college, Namakkal | Assistant Professor |
| 11 | PitlaMadhu | Kalasalingamacdemy of research and education | Student |
| 12 | Pooja M | Erode sengunthar engineering college | Student |
| 13 | Kavin Prasad J | Erode sengunthar engineering college | Student |
| 14 | Deepan k | Etodesengunthar engineering college | Student |
| 15 | Saravanan Mani | Paavai Engineering college, Namakkal | Assistant Professor |
| 16 | Pavithra S | Erode Sengunthar engineering college | Student |
| 17 | Kiruthiga V | Erode Sengunthar engineering college | Student |
| 18 | Dhakchinamurthi V M | Erode sengunthar engineering college | Student |
| 19 | Ravichandra Rao | Paavai Engineering college, Namakkal | Assistant Professor |

13/11/21
Convenor

15.1.21
HOD

# Kongu Engineering College, Perundurai
## Department of Information Technology

National level workshop
on
"Zero Coding : Data Analysis for IoT using Node-Red"

### Schedule

| Date | Time | Session Handled | Topic Covered |
|------|------|-----------------|---------------|
| Day 1 (20.10.2021) | 6:00 PM to 8:00 PM | Dr. M. Thangamani, Associate Professor/IT, Kongu Engineering College, Perundurai - 638060 | Introduction to Node-RED and IoT |
| | | | IoT Protocol & Node Red Installation |
| | | | Node Red sample Flow For Embedded System Applications |
| Day 2 (21.10.2021) | 6:00 PM to 8:00 PM | R. Aarthi, Assistant Professor/IT, Kongu Engineering College, Perundurai - 638060 | Data Analytics in Node Red enabling IoT |
| | | | Dashboard Nodes in Node Red |
| | | | User Interface (UI) in Node Red |
| Day 3 (22.10.2021) | 6:00 PM to 8:00 PM | R. Aarthi, Assistant Professor/IT, Kongu Engineering College, Perundurai - 638060 | Exploring nodes in Node-Red |
| | | | Retrieving data from Local database (Excel) & storing data using Form UI |
| | | | Web Based Application (HTML) Form Creation & Submission in Node-Red |
| Day 4 (23.10.2021) | 6:00 PM to 8:00 PM | N. Adhithyaa, Assistant Professor/IT, Kongu Engineering College, Perundurai - 638060 | MQTT on Node-Red |
| | | | Online Media Monitoring Using Node-Red |
| | | | Front End for Node-RED (FRED) |Cloud based Node-RED |
| Day 5 (24.10.2021) | 6:00 PM to 8:00 PM | N. Adhithyaa, Assistant Professor/IT, Kongu Engineering College, Perundurai - 638060 | Weather Report Analysis| Openweathermap Node in Node-red |
| | | | Knime Analytics Platform Installation |
| | | | Sales Analytics using Knime |

Convenor
13/11/21

HOD/IT
13.11.2021