

**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
(UGC AUTONOMOUS)

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**International Technical e-Workshop**

on

**IoT with Cooja Simulator**

**(ITWMITS21IOT)**

**Organized by**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

Association with



**Event Report**

Submitted By

**Mr.V.Saravanakumar,**

**Assistant Professor & Convenor**

Department of Computer Science & Engineering  
Madanapalle Institute of Technology & Science

The International Technical e-Workshop Programme was inaugurated virtually by the Chief Guest & Speaker **Dr.S.Balakrishnan**, Professor & Head, Department of Computer Science & Business System Virtually in the presence of Principal, Vice Principal (Academics), Head of Department, Faculty Members, Research Scholars, Students and External Delegates from different countries like India, Oman, Germany, New Zealand, United States, Sudan, Ghana, and Nigeria.

Followed by, the sessions were proceeded as per the schedule.

Activity	Time (IST)	Faculty
<b>Felicitation Address</b>	1.50PM-1.55PM	<b>Dr.Mahaboob Basha Shaik</b> Professor & Head <b>Co-Patron</b>
<b>About Speaker</b>	1.55PM-1.58PM	<b>Dr.A.Vishnu Priya</b> Assistant Professor, Coordinator
<b>Workshop</b>	2PM-3.55PM	Guest Speaker
<b>Vote of Thanks &amp; Feedback</b>	3.55PM-4PM	<b>Dr.P.V.Venkateswara Rao</b> Associate Professor & Convener

**Event Hosting** : **Mr.V.Saravanakumar**, Assistant Professor & Convener

The Guest Speaker **Dr.S.Balakrishnan** delivered his versatile knowledge on Internet-of-Things with the following key features

- Introduction of IoT
- Needs of Cooja
- Energy Monitoring
- Networking Protocols
- Research Projects

Next Guest Speaker **Mr. Parvathy Nathan** demonstrated Cooja Simulator for emulating the IoT platforms which focusses on low-power IoT devices with real time example.

Totally 110 participants had attended the Technical e-Workshop programme which includes 07 Faculties, 100 Students and 03 Industrialists contribute their presence and feedback from different areas of countries.

The Resource Speaker and Participants had solid interactive chats in MS-Team and finally the Vote of Thanks gave by **Dr.U.Arul**. He thanked Guest Speaker, Organizing Committee Members, and HoD for organizing and contributing their efforts for successful of the webinar. He extended her thanks to the Principal, Dean IIC, and the Management for their continuous support and motivation to conduct the Events.

# Event Poster



**Madanapalle Institute of Technology & Science**

**Department of Computer Science and Engineering**



**Organizes International Technical e-Workshop**

**IoT with Cooja Simulator**



**Dr.S.Balakrishnan**

**Professor and Head**

**Department of Computer Science and Business System**

**Sri Krishna College of Engineering and Technology**

**Coimbatore, India**



Google Sites <https://sites.google.com/view/itwmits21iot/>



**01-01-2021 Friday 2 PM - 4 PM IST**

**Chief Patrons**

**Dr.N.Vijaya Bhaskar Choudary**

Secretary & Correspondent

**Shri.N.Krishna Kumar**

Chairman

**Convenors**

**Dr. P. V. Venkateswara Rao**

Associate Professor

**Mr.V.Saravanakumar**

Assistant Professor

**Co-Patrons**

**Dr.C.Yuvaraj**

Principal

**Dr.Mahaboob Basha Shaik**

HoD

**Coordinators**

**Dr.A.Vishnu Priya**

Assistant Professor

**Dr.U.Arul**

Assistant Professor

# Event Screenshots

This screenshot shows a Microsoft Teams meeting in progress. The main content is a slide titled "IOT EMULATION WITH COOJA" in red text. Below the title, it identifies the presenter as "Dr.S.Balakrishnan, Professor and Head, Department of Computer Science and Business System, Sri Krishna College of Engineering and Technology (Autonomous)". The slide is part of a presentation, with a "Slide 1 of 51" indicator and a "Stop presenting" button visible. The meeting interface includes a sidebar on the left with navigation options like Activity, Chat, Teams, Assignments, Calendar, Calls, and Help. On the right, a "People" pane lists participants, including Balakrishnan S (the presenter) and several guests. The bottom of the screen shows the Windows taskbar with various application icons and the system tray.

This screenshot shows a Microsoft Teams meeting displaying a slide titled "INTRODUCTION TO IOT IOT RELATED TECHNOLOGIES". The slide lists seven categories of IoT-related technologies: 1. Embedded systems, 2. Embedded systems OS (Contiki, Tiny OS, RIOT, ...), 3. Communication technologies, 4. Sensor technologies, 5. Real time systems, 6. Smart things and technologies, and 7. Machine-to-Machine Communications. A "Take copy" button is visible at the bottom of the slide content. The meeting interface is consistent with the first screenshot, showing the sidebar, the "People" pane with 70 participants, and the Windows taskbar. The system tray shows the time as 02:39 PM on 01-01-2021.

Microsoft Teams Meeting Interface

Browser tabs: Mail - Saravana Kumar - Outlook, Feedback ITWMITS21IoT - Google, ITWMITS21IoT-IOT with Coog..., Firewall Authentication Keepal..., ITWMITS21IoT (Meeting)

URL: teams.microsoft.com/\_#/pre-join-calling/19:42973163348c40b7b22243aaa42aa5a4@thread.tacv2

**Microsoft Teams**

Search

Activity, Chat, Teams, Assignments, Calendar, Calls

**Create new simulation**

Simulation name: Demo1.ma

Advanced settings:

- Radio medium: Unit Disk Graph Medium (UDGM): Distance Loss
- Note startup delay (ms): Unit Disk Graph Medium (UDGM): Distance Loss
- Random seed: UDGM: Constant Loss
- New random seed on reload: Directed Graph Radio Medium (DGRM)
- Multi-path Router Medium (MPRM)

Buttons: Cancel, Create

01:35:19

Parvathy Nathan Sivaraman

People

Invite someone

- Waiting in lobby (2) Admit all
- Ashish Tiwari (Outside your organisation) Admitting...
- Sivasaamy Vellingiri (Guest) Admitting...
- Currently in this meeting (63) Mute all
- Saravana Kumar (Organiser)
- 40D Asmithasri K (Outside your organisation)
- Abhimanyu Sharma (Outside your organisation)
- ANOH YAO JACOB (Guest)
- ANUJ SINGAL (Guest) On hold
- Anupam Kumar Saini (Guest)
- Anusha M J (Guest)

Windows taskbar: Type here to search, Balakrishnan S, 03:19 PM 01-01-2021

Microsoft Teams Meeting Interface

Browser tabs: Mail - Saravana Kumar - Outlook, Feedback ITWMITS21IoT - Google, ITWMITS21IoT-IOT with Coog..., Firewall Authentication Keepal..., ITWMITS21IoT (Meeting)

URL: teams.microsoft.com/\_#/pre-join-calling/19:42973163348c40b7b22243aaa42aa5a4@thread.tacv2

**Microsoft Teams**

Search

Activity, Chat, Teams, Assignments, Calendar, Calls

Code Editor:

```

while(1) {
    PROCESS_WAIT_EVENT();

    if(ev == PROCESS_EVENT_TIMER) {
        printf("consist says 'HELLO', count: %d\n", count);
        count++;

        etimer_reset(set_hello);
    }
}
PROCESS_END();
PROCESS_THREAD(blink_process, ev, data)
PROCESS_BEGIN();
blinks = 0;

while(1) {
    etimer.set(get_blink, CLOCK_SECOND);
    PROCESS_WAIT_EVENT_UNTIL(ev == PROCESS_EVENT_TIMER);
    leds.off(LED5_ALL);
    leds.on(!blinks & LED5_ALL);
}

```

Your microphone is muted.

People

Invite someone

- Currently in this meeting (71) Mute all
- Saravana Kumar (Organiser)
- 40D Asmithasri K (Outside your organisation)
- Abhimanyu Sharma (Outside your organisation)
- amit kumar (Outside your organisation)
- ANBARASU B (Outside your organisation)
- ANOH YAO JACOB (Guest)
- ANUJ SINGAL (Guest) On hold
- Anupam Kumar Saini (Guest)
- Anusha M J (Guest)

Windows taskbar: Type here to search, 03:22 PM 01-01-2021

# Feedback Analytics



Feedback ITWMITS21IoT



Questions Responses **110**

110 responses



Not accepting responses

Message for respondents

This form is no longer accepting responses

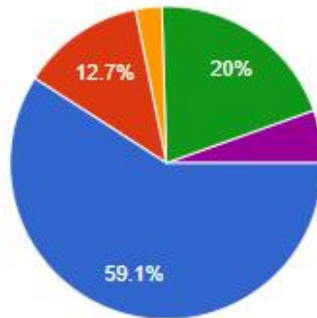
Summary

Question

Individual

Type

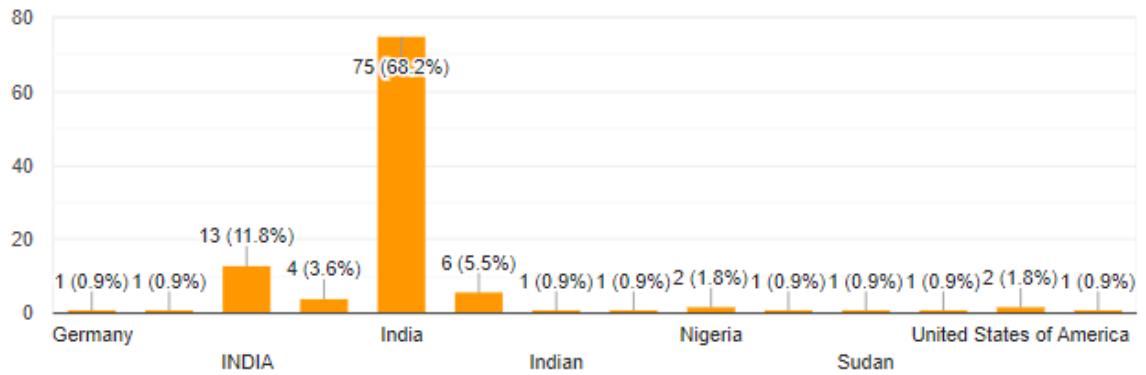
110 responses



- Faculty
- Research Scholar
- Industrialist
- Student
- Other

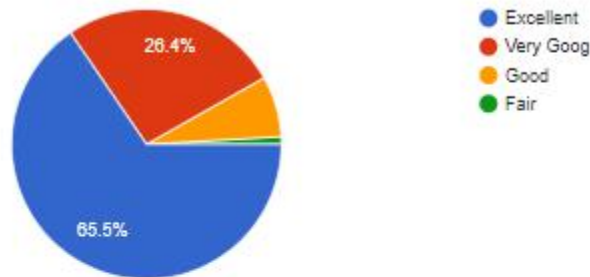
### Country

110 responses



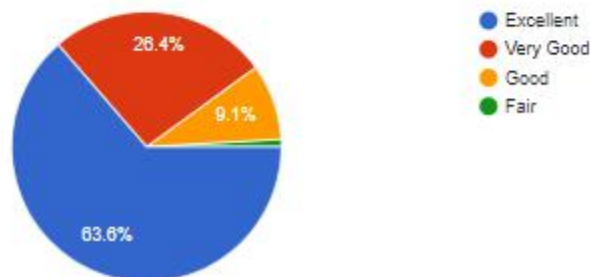
### How do You Feel this Event Organizing?

110 responses



### Communication of Speaker

110 responses





# Sample Certificate



**Madanapalle Institute of Technology & Science**

**Department of Computer Science and Engineering**



**Organizes**  
**International Technical e-Workshop**  
**IoT with Cooja Simulator**



## Certificate of Appreciation

This is to certify that **Dr.S.Balakrishnan**, Professor & Head / CSBS, Sri Krishna College of Engineering & Technology, Coimbatore act as **Resource Speaker** for the International Technical e-Workshop entitled **IoT with Cooja Simulator** on 01.01.2021 (Friday).

Certificate No: ITWMITS21A01

Coordinator

Convenor

HoD

Principal



**Madanapalle Institute of Technology & Science**

**Department of Computer Science and Engineering**



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## Certificate of Participation

This is to certify that **Dr/Mr/Ms. B.LALITHADEVI**, SRM Institute of Science and Technology, India Participated in the International Technical e-Workshop entitled **IoT with Cooja Simulator** on 01.01.2021 (Friday).

Certificate No: ITWMITSIoT126

Coordinator

Convenor

HoD

Principal