Department of Electronics and Communication Engineering

IEEE VIRTUAL WEBINAR on *"SOC PROTOCOL"*

Details	*Status*
Date of the Event	***04.09.2021***
Title of the event	***One day Webinar on "SOC PROTOCOL"***
Organized by	***Department of Electronics and Communication ,East Point College of Engineering & Technology, IEEE Students Branch in association with IEEE Bangalore section & IEEE TEMS, Bangalore.***
Name of the Resource Speaker	 ***Mr Dinesh M*** ***Principal Engineer, Microchip Development Centre[R&D]***
BROCHURE	

SESSION 1: 10.30-10.50AM

One day Webinar on "SOC PROTOCOLS", conducted online mode using Google meet by the East Point IEEE Student SB) in association with IEEE Bangalore section and IEEE TEMS, Bangalore, EPCET.

The session was anchored and welcome by Prof Ayaz Pasha S, Assistant Professor, ECE Dept.

The Keynote speaker was introduced by Prof Radhamani R, Assistant Professor, ECE Dept.

SESSION 2: 10.50AM-11.00AM

Dr. T K Sateesh, Principal,EPCET addressed the gatherings and highlighted topics like Serial Communication. Dr Yogesh G S, HOD, Dept. Of ECE addressed the IEEE Activities & students' achievements through East Point IEEE Students Branch and also outlined the SOC concepts. Then the session was handover to the speaker. The following points was discussed with the participant

ts.**SESSION 3: 11.00AM-12.30PM**

Objectives

To design and implement I2C protocol and UART protocol with different types of features such as combined message, different type of addressing mode, different type of pattern, speed and different slave address with multiple I2C controller and test card.

To investigate the performance of data transfer and packet loss during long hours running by randomizing the features in an automation regression

Highlights

UART

Controllers consist of UART Module

It will take care of buffering of data, will take care transmitting and rece ivethe data to and from the buffer by setting the appropriate registers

I2C Protocol

It consists of two wires SDA and SCL

It can be categorised as Master or Slave. Master controls the SCL line and decides what operation to be done on SDA line

Arbitration

Its possible that 2 masters can initiate the data transmit at the same time

Total Number of Students Present : 45

Total Number of Faculties Present : 15

Mode of Webinar / Workshop: ONLINE

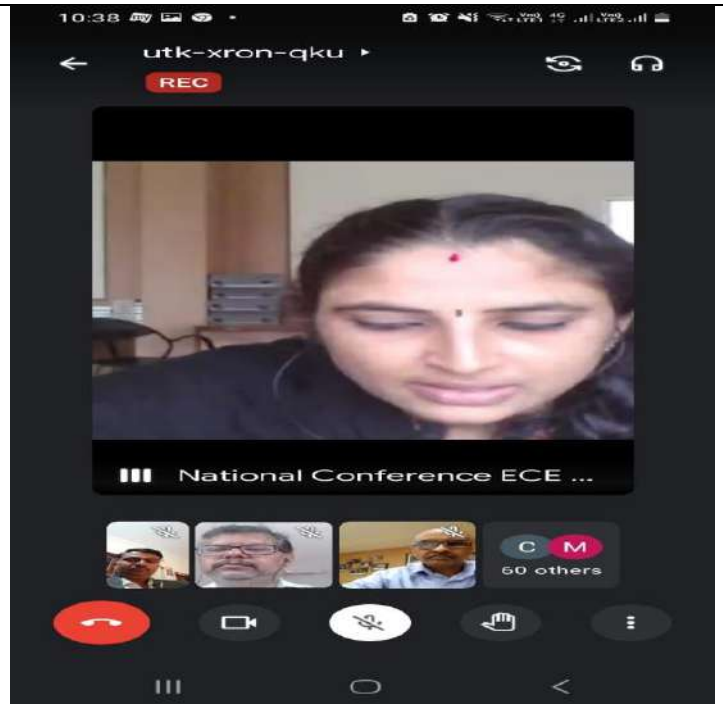
Google meet Link: *https://meet.google.com/utk-xron-qku*

Recorded Video Link : https://drive.google.com/file/d/1mufDfU-EhhcUXrKlmPSahy9E0LAPlDkR/view?usp=sharing

Theme of the Webinar / Workshop: ***IEEE VIRTUAL WEBINAR SERIES ON" SOC PROTOCOLS"***

Under Professional Body : EPISB

SNAPS OF THE DAY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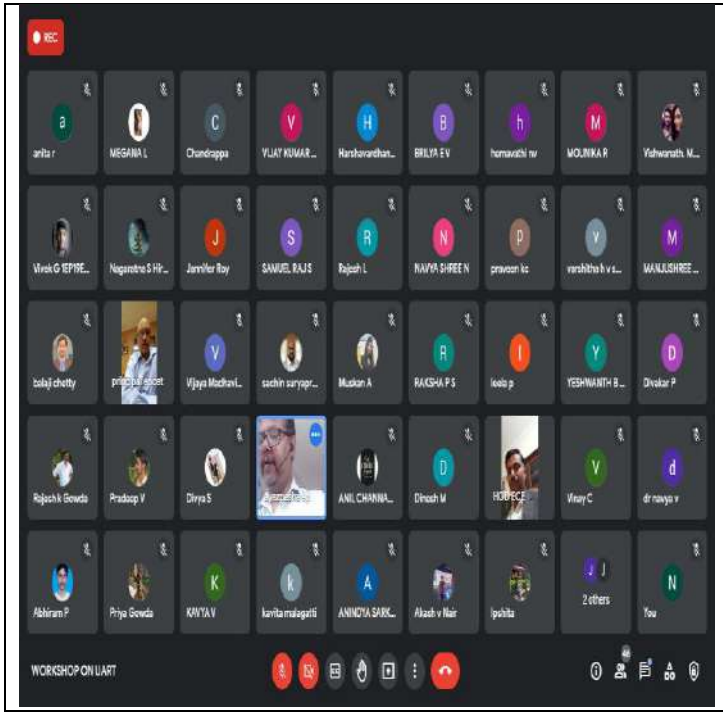
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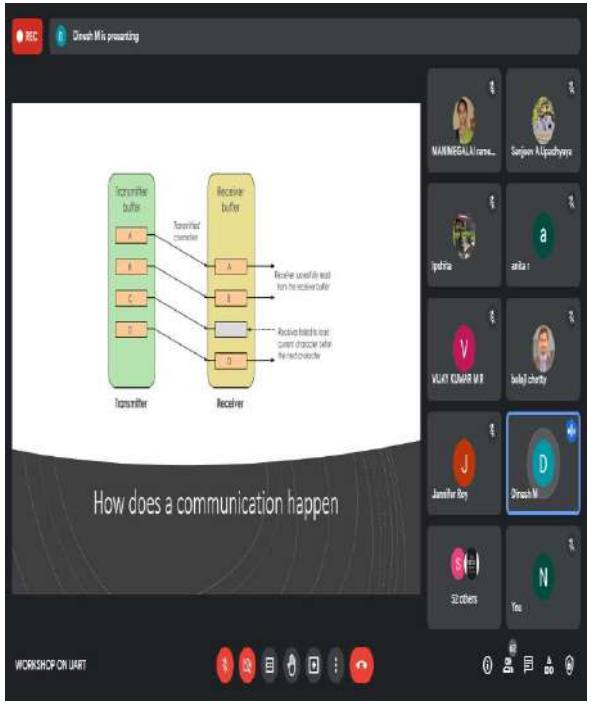
WORKSHOP ON UART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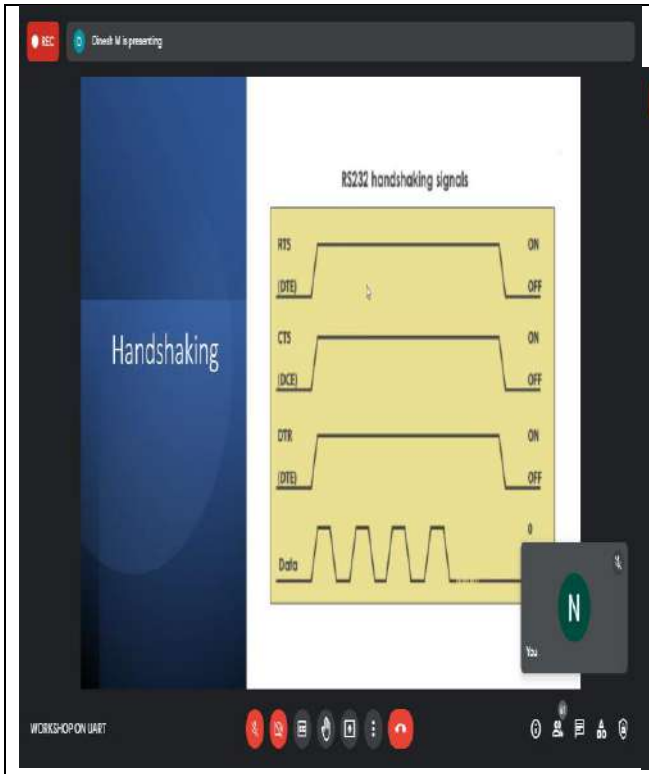
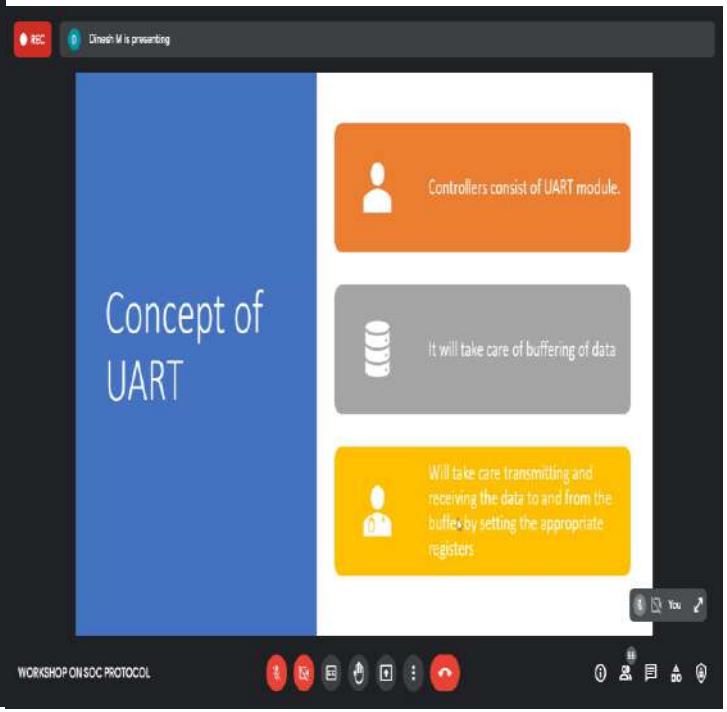
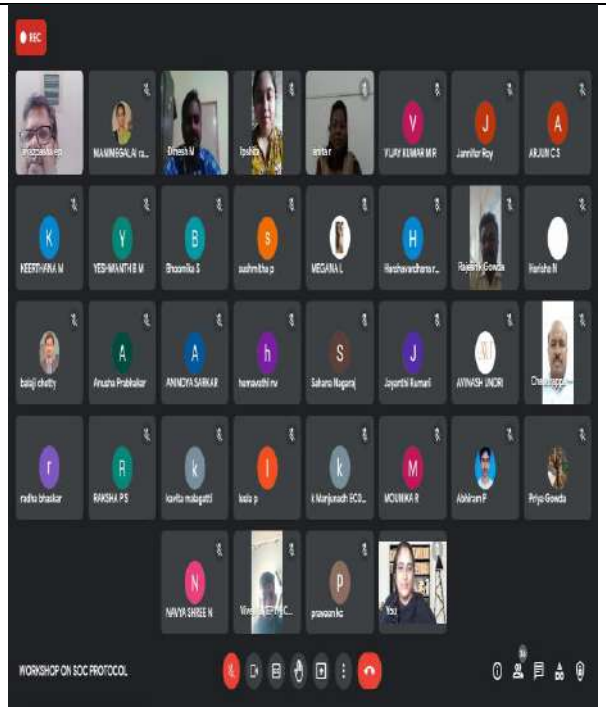
Dinesh M is presenting
How does a communication happen
WORKSHOP ON UART


Dinesh M is presenting
Handshaking
RS232 handshaking signals
RTS
(DTE)
ON
OFF
CTS
(DCE)
ON
OFF
DTR
(DTE)
ON
OFF
Data
0
N
You
WORKSHOP ON UART


Dinesh M is presenting
Concept of UART
Controllers consist of UART module.
It will take care of buffering of data
Will take care transmitting and receiving the data to and from the buffer by setting the appropriate registers
You
WORKSHOP ON SOC PROTOCOL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