A Report on,

Webinar on

"Embedded System and IOT"

on 11th March 2022

By,

Electronics and Communication Department

C. K. PITHAWALLA COLLEGE OF ENGG. & TECHNOLOGY, SURAT

Affiliated to,

GUJARAT TECHNOLOGICAL UNIVERSITY

The event was scheduled as per the given details

- **Topic** : **Embedded System and IOT**
- **Date & Day** : 11 March 2022, Friday
- **Venue** : Online google meet (meet.google.com/dch-vnfn-ofz)
- **Name of Experts** :
    1. Dr. Vishvjit thakar (Principal, Nobel Engineering College)
- **Attendees** : Students from various colleges and alumni students
- **Student Attendance** : 30

- **Program Schedule** :

Time	Event	Event Coordinators
2:pm	Embedded System and IOT	Dr. Vijayendra Desai, Asst. Prof., EC dept, CKPCET

Summary of the Event :

Purpose:

The purpose of the webinar is to give idea about recent trends and techniques of IOT and embedded system

Workshop in Brief:

The webinar had begun at 2pm on Friday, 11 March 2022, with almost 15 participants of various colleges

The session began with an introduction of Dr. Vishvjit Thakar,.Principal of Nobel engineering college, Junaghadh.by Dr. Vijayendra Desai .

Dr Vishvjit Thakkar covers the recent trends, methods and uses of IOT.

Outcomes:

The students can utilize this knowledge for project making and carrier options

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Glimpses of the Event

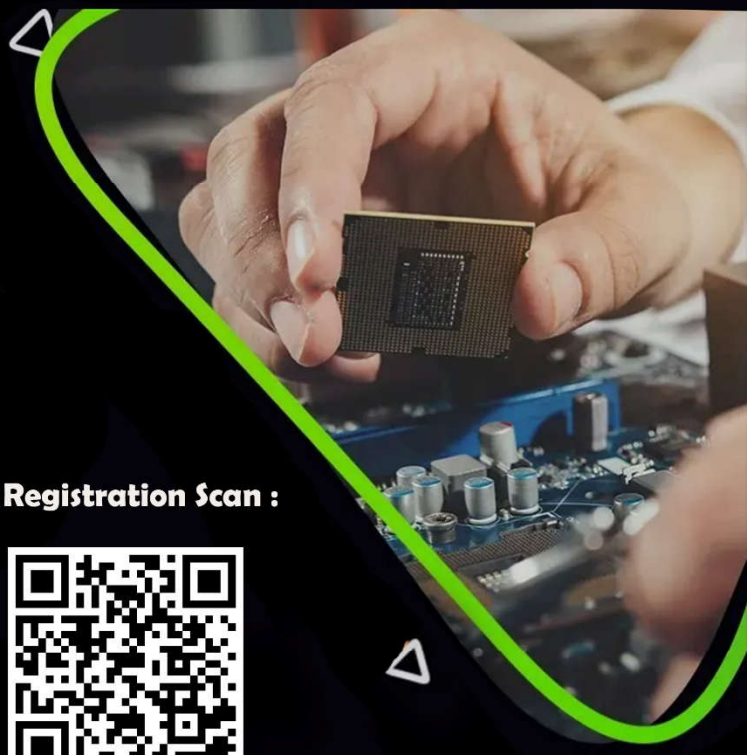
Navyug Vidya Bhavan Trust

C. K. Pithawala College of Engg & Tech, Surat

NBA accredited for Civil, Computer (2021-24)

Electronics & Communication Department Organized

Webinar on Embedded System & IOT



Date: 11th march, 2022

2 pm onwards

For Registration Scan :

Speaker:

Dr. Vishvjit Thakar

Principal, Noble Engineering College, Junagadh,

CEO,ASQUARE INNOVATIONS, Consultant, Orena Solutions

Coordinator:

Dr. Vijayendra Desai

Assistant ,Professor ECC Dept.

principal Noble is presenting
INTERNET OF THINGS
Embedded Systems and Internet of Things
Dr. Vishvjit Thakar
Principal, Noble Engineering College, Noble Group of Junagadh,Gujarat
Email: vishvjitkthakar@gmail.com
noble GROUP OF INSTITUTIONS JUNAGADH
3/11/2022
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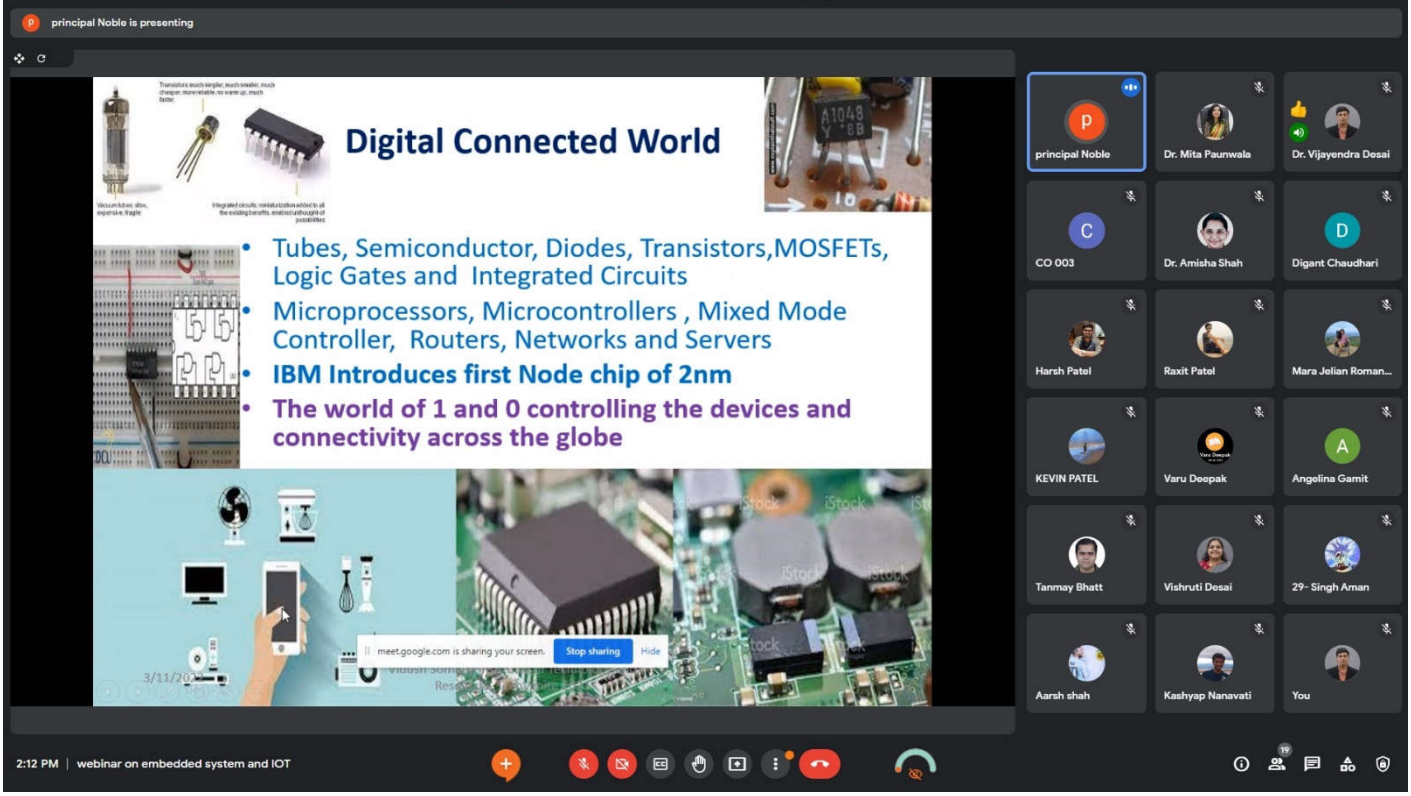
Dr. Vijayendra Desai
CO 003
Dr. Amisha Shah
Digant Chaudhari
Harsh Patel
Raxit Patel
Mara Jelian Roman...
Varu Deepak
Tanmay Bhatt
29- Singh Aman
Aarsh shah
Kashyap Nanavati
Angelina Gamit
Bhavesh Patil
You
2:29 PM | webinar on embedded system and IOT


principal Noble is presenting
Digital Connected World
Tubes, Semiconductor, Diodes, Transistors,MOSFETs, Logic Gates and Integrated Circuits
Microprocessors, Microcontrollers , Mixed Mode Controller, Routers, Networks and Servers
IBM Introduces first Node chip of 2nm
The world of 1 and 0 controlling the devices and connectivity across the globe
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principal Noble
Dr. Mita Paunwala
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KEVIN PATEL
Varu Deepak
Angelina Gamit
Tanmay Bhatt
Vishruti Desai
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Kashyap Nanavati
You
2:12 PM | webinar on embedded system and IOT

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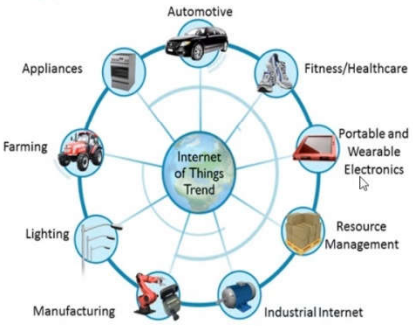
IoT Introduction

Opportunities



Challenges

Power consumption
Increased connectivity
Confidentiality
Security
Regulations
Demographics

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Varu Deepak
Tanmay Bhatt
Vishruti Desai
29- Singh Aman
Aarsh shah
Kashyap Nanavati
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ENG IN 14:13 11-03-2022

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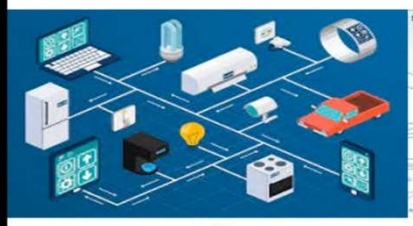
Digital Connected Devices



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Varu Deepak
Tanmay Bhatt
Vishruti Desai
29- Singh Aman
Aarsh shah
Kashyap Nanavati
Export Transport
Angelina Gamit
You

ENG IN 14:14 11-03-2022

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IoT Introduction

Introduction

- Mobile computing and human interface
- Data sensing and Embedded Systems
- Data mining and cloud computing
- Network and connectivity

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2:16 PM | webinar on embedded system and IOT

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Sensors of Things

- Device that sense the surrounding environments, physical activities, biomedical activities and provides electrical signal as an output. The signal generated can be analog or digital. The electrical signal can be current, voltage or frequency.

Thermal Senosr

RFID Sensors

Accelerometer

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Tejash Gamit
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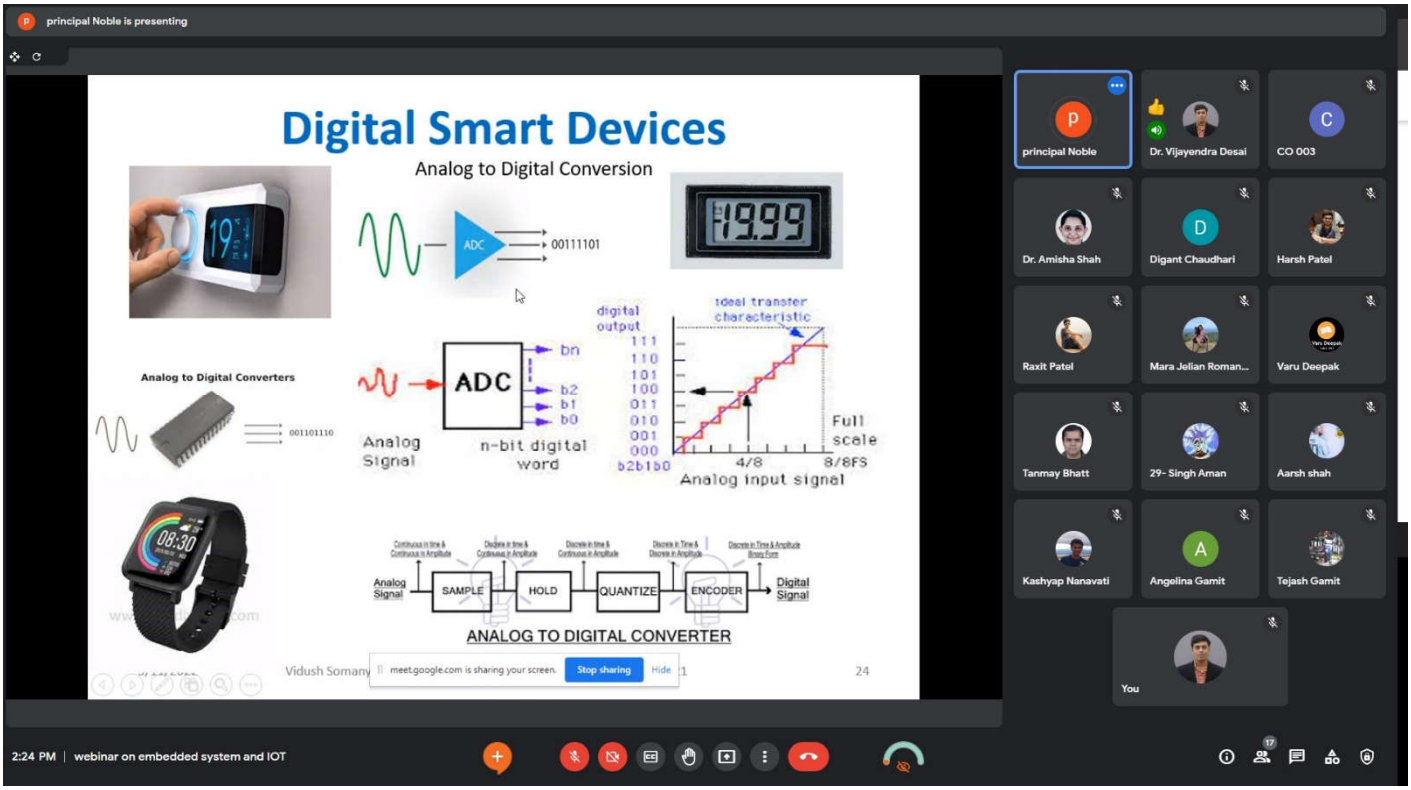
2:19 PM | webinar on embedded system and IOT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Digital Smart Devices
Analog to Digital Conversion
ADC
00111101
19.99
Analog to Digital Converters
001101110
ADC
bn
b2
b1
b0
Analog Signal
n-bit digital word
digital output
111
110
101
100
011
010
001
000
b2b1b0
ideal transfer characteristic
Full scale
4/8
8/8FS
Analog input signal
08:30
Analog Signal
SAMPLE
HOLD
QUANTIZE
ENCODER
Digital Signal
ANALOG TO DIGITAL CONVERTER
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24
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2:24 PM | webinar on embedded system and IOT