

# Sarvajanik University

## Sarvajanik College of Engineering & Technology Information Technology Department

Report of Expert Talk on "IOT and its Application" held at IT Dept, SCET on  
27<sup>th</sup> July, 2021



The poster is for an expert talk titled "IOT and Its Application" organized by the Sarvajanik College of Engineering and Technology, Information Technology Department. It features the Sarvajanik University logo on the top left and the Sarvajanik Education Society logo on the top right. The text "Organizes an Expert Talk On 'IOT and Its Application'" is prominently displayed in the center. Below this, a yellow box contains the date "Date: 27<sup>th</sup> July, 2021" and timing "Timing : 09:30 am to 11:30 am". Another yellow box provides the registration URL "https://tinyurl.com/nex63zu8" and the last date of registration "Last date of Reg: 26<sup>th</sup> July, 2021". A note states that an E-Certificate will be provided to registered participants and the Google Meet link will be shared. A circular portrait of Dr. Sharnil Pandya is shown next to his name and title: Associate Professor, CSIT & Dept. of Artificial Intelligence & Machine Learning, Symbiosis Institute of Technology, Symbiosis International University, Pune. At the bottom, four roles are listed: Event Coordinator (Prof. Hiren Vavaiya), Department Head (Dr. Mita Parikh), Dean R & D (Dr. Chirag Paunwala), and Principal (Dr. Hiren Patel).

**Sarvajanik University**  
INCLUSIVE | INTEGRATED | INNOVATIVE

**Sarvajanik College of Engineering and Technology**  
Information Technology Department

Organizes an Expert Talk  
On  
**"IOT and Its Application"**

**Date:** 27<sup>th</sup> July, 2021  
**Timing :** 09:30 am to 11:30 am

**Registration Url :**  
<https://tinyurl.com/nex63zu8>  
**Last date of Reg:** 26<sup>th</sup> July, 2021

**Note:** E-Certificate will be provided to the registered participants only.  
Google Meet Link will be shared to the registered participants.

**Dr. Sharnil Pandya**  
Associate Professor,  
CSIT & Dept. of Artificial  
Intelligence & Machine Learning,  
Symbiosis Institute of Technology,  
Symbiosis International University,  
Pune.

**Event Coordinator** — **Department Head** — **Dean R & D** — **Principal**

**Prof. Hiren Vavaiya**  
Assistant Professor,  
IT Department,  
SCET, Surat

**Dr. Mita Parikh**  
Professor & Head,  
IT Department,  
SCET, Surat

**Dr. Chirag Paunwala**  
Dean R & D,  
SCET, Surat

**Dr. Hiren Patel**  
Principal,  
SCET, Surat

**Internet of Things (IOT)** describes the network of physical objects. "Things" that are embedded with sensors, actuators, software and other technologies for the purpose of connecting and exchanging data with other devices and systems over the Internet. Things have evolved due to the convergence of multiple technologies, real-time analytics, machine learning, ubiquitous computing, commodity sensors, and embedded systems.

Traditional fields of embedded systems, wireless sensor networks, control systems, automation (including home and building automation), and others all contribute to enabling the Internet of things. In the consumer market, IOT technology is most synonymous with products pertaining to the concept of the "smart home", including devices and appliances (such as lighting fixtures, thermostats, home security systems and cameras, and other home appliances) that support one or more common ecosystems, and can be controlled via devices associated with that ecosystem, such as smartphones and smart speakers. IOT can also be used in healthcare systems, Agriculture Systems, Industry automation, transportation, mega stores etc.

<b>Speaker</b>	:	<b>Dr. Sharnil Pandya,</b> Associate Professor, CSIT & Dept. of AI ML, Symbiosis Institute of Technology, Symbiosis International University, Pune.
<b>Topic</b>	:	IOT and its Application
<b>Date &amp; Time</b>	:	27 <sup>th</sup> July 2021 (9:30 AM – 11:30 AM)
<b>Venue</b>	:	Online (BigblueButton)
<b>Coordinator</b>	:	Prof. Hiren H. Vavaiya
<b>Targeted Audience</b>	:	Students from IT/CO
<b>Participants</b>	:	<b>75+</b> students and faculty members

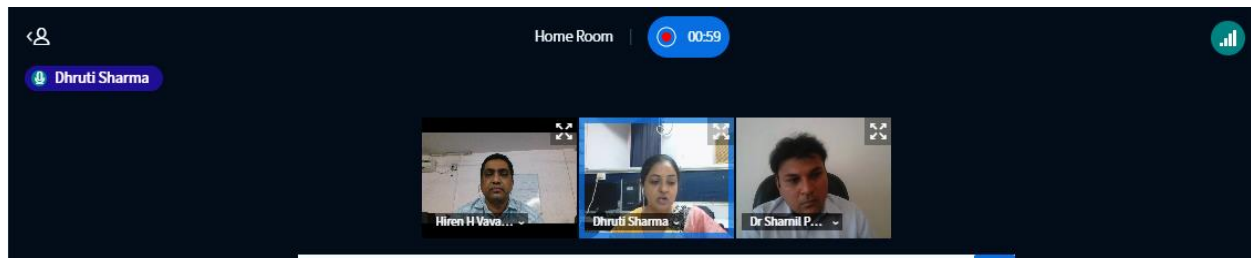
The session started with “Introduction to Internet of Things” followed by discussion on following concepts:

- IOT and M2M, IOT and Web of Things
- IOT usage in Home Automation, Agriculture
- IOT usage in Healthcare Systems
- IOT usage in Environmental related Issues
- Various IOT Applications
- Storing and using IOT Data on Cloud

Finally, there was a question-answer session where queries from students were attended by **Prof Sharnil Pandya**. The session ended with a Vote of Thanks by **Prof. Hiren H. Vavaiya**.

We are grateful to **Dr. Mita Parikh, HOD, IT Dept** for her guidance and co-operation in arranging the expert talk. We also extend our gratitude towards **Dr. Chirag Paunwala, Dean R&D** and **Dr. Hiren Patel, Principal, SCET** for encouraging staff members to organize such an event.

## Glimpses of the Event



Public Chat

kindly chat here

NOTES

Shared Notes

USERS (66)

Hiren H Vavaiya (You)

06\_Brijesh Bhut

18\_05 Meet Bardoliya

18\_55 Raj Shah

Aniket Bari

ashish kharvar

Bhaumik Dhameliya

Bhavik Mistry

Bhavya Lineswala

Moksh Modi 9:34 AM  
internet is not produced but is maintained by people using connection of networks

Moksh Modi 9:36 AM  
yes sir

D05 Shahrukh Siddiqui 9:36 AM  
Yes there are optical cables under oceans

Moksh Modi 9:38 AM  
online is when we are using the internet or a service on internet

Moksh Modi 9:38 AM  
so the term "on-line"

D05 Shahrukh Siddiqui 9:38 AM  
These terms are used for end nodes i.e. computers or servers

D05 Shahrukh Siddiqui 9:41 AM  
1g was used in telephone just voice call

Send message to Public Chat

Home Room 15:43

Dr Sharnil Pandya

IoT/M2M, Beyond the Hype...

expectations

Smart Home

Smart Grid

Smart City

Smart Factory

Smart Healthcare

Smart Agriculture

Smart Transportation

Smart Energy

Smart Security

Smart Education

Smart Retail

Smart Logistics

Smart Manufacturing

Smart Infrastructure

Smart Services

Smart Governance

Smart Mobility

Smart Living

Smart Working

Smart Learning

Smart Playing

Smart Shopping

Smart Eating

Smart Drinking

Smart Sleeping

Smart Breathing

Smart Thinking

Smart Feeling

Smart Acting

Smart Being

Smart Everything

Time

Plateau will be reached in:

0 less than 2 years

10 2 to 5 years

5 to 10 years

more than 10 years

obsolete before plateau

2017-2021

Public Chat

its M2M

NOTES

Shared Notes

USERS (70)

Hiren H Vavaiya (You)

06\_Brijesh Bhut

18\_05 Meet Bardoliya

18\_18 Vrutika kakadiya

18\_55 Raj Shah

18\_56 Harshad Sorat...

Akash Lakhani

Aniket Bari

Arshit Sutariya

Utsav Desai (online) 10:00 AM  
Part of iot

06\_Brijesh Bhut 10:00 AM  
yes

Yash Pandya 10:00 AM  
Part of iot

vatsal sabalpara 10:08 AM  
intelligence

Deep Punjabi 10:08 AM  
emotions

Drashti Thummar 10:37 AM  
Kalpna chawla

Yash Pandya 10:37 AM  
Kalpna chawla

Jainil Jakasaniya 10:37 AM  
Kalpna chawla

Send message to Public Chat

Home Room 17:48

Dr Sharnil Pandya

5.8 Scope of IoT - Post COVID19

AAROGYA SETU  
A COLLECTIVE INITIATIVE  
TO FIGHT AGAINST  
COVID-19 IN INDIA

2017-2021

Home Room
 

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

Home Room
 

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

Home Room
 

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

80:14

Dr Sharnil Pandya

Home Room

86:33

Dr Sharnil P...

### 5.14 Smart Milk Storage System for Remote Areas Example

Milk is contaminated by bacteria and so on. [View Article](#) [Download](#)

**Legend:**

- Blue arrow: REFRIGERANT FLOW
- Red arrow: HOT WATER FLOW
- Green arrow: COLD WATER FLOW

**Legend:**

- (T, P): TEMPERATURE & PRESSURE SENSOR
- (T): TEMPERATURE SENSOR
- (F): FLOW CONTROL VALVE
- (FM): FLOW METER

**System Components:** SOLAR COLLECTOR, HOT WATER TANK, REFRIGERANT COMPRESSOR, CONDENSER, EVAPORATOR, EXPANSION VALVE, WATER FROM MAIN, WATER FROM TANK, WATER COOLED CONDENSER, RECEIVER, VACUUM PUMP, HOT WATER PUMP, TO DRAIN.

Paper Publication Link: <https://www.scienceopen.com/science/article/pii/S2211755320107117v1/v1/02000>

Home Room

86:59

Dr Sharnil Pandya

Home Room

86:59

Dr Sharnil Pandya

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59

Home Room

86:59