



# GUJARAT TECHNOLOGICAL UNIVERSITY

(Established by Government of Gujarat under Gujarat Act No. : 20 of 2007)

ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી

(ગુજરાત સરકારના ગુજરાત અધિનિયમ ક્રમાંક : ૨૦/૨૦૦૭ દ્વારા સ્થાપિત)

No.: GTU/GIC/DIC/workshop/2021/ 5098

Date: 13/ 09/ 2021

## Circular

*Two Day's Workshop on INTERNET OF THINGS(IoT)  
organized by Design Innovation Centre in a collaboration with GISC TBI*

To,  
Principals/Directors of Colleges affiliated to GTU

### **About Design Innovation Centre (DIC) – GTU:**

GTU since its foundation in 2007, is striving to create, achieve and support the unique initiatives in design, innovation and entrepreneurship to build a holistic ecosystem by intervention of latest technologies. Considering its efforts in developing such ecosystem, MoE has awarded the grant to GTU for establishment of a full-fledged Design Innovation Centre (DIC) to promote, nurture and advance the culture of design, innovation, creative problem solving and entrepreneurship among young minds at GTU premise as Hub and other three institutes in Rajkot, Surat and Modasa as spokes to cover entire state. DIC would support Innovators in product design and development, prototype building through full-fledged FabLab, mentorship and networking, IPR support, training and workshop, skill developments, fellowship and awards to best projects/solutions and co-working space.

### **About GTU Innovation & Startup Centre Technology Based Incubator (GISC TBI):**

GISC TBI is approved incubator by NSTEDB, DST-GOI focusing sector on AI-ML, AR-VR, IoT, Blockchain, PCB & Embedded system. GISC TBI will extend this support to scale up the idea into next level with all possible support. GISC has regional Centre at Ahmedabad, Rajkot, Surat, Vadodara & Mehsana.

### **TWO DAY'S WORKSHOP ON INTERNET OF THINGS(IoT)**

Bored with online Studies. Well then here is your chance to attend a completely offline and hands on workshop on IoT. Yes, techies in collaboration with Design Innovation Centre & GISC TBI of GTU organized a 2 Day offline workshop in Ahmedabad where participants will be learning about IoT from basic and will create some interesting hands on IoT projects in the end. This short-term training program aims for bringing together the researchers, teaching fraternity, industry persons and Under & Post graduate students from across the state to exchange the innovative ideas face-to-face. In this Two Days IoT workshop various techniques, tools, applications, research problems using Internet of Things will be cover.

**Winners of : ICT Enabled University Award E-India - 2009 ❖ Manthan Award - 2009 ❖ GESIA Award -2011  
❖ Digital Learning WES - 2011 Award ❖ AIMS International Innovative University Award - 2013**



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### About Speaker:

Mr. Sachin Soni founder of techiesms. Techie by passion and Tech YouTuber by profession, Mr. Sachin Soni is a proud influencer and educational blog writer which anyone can find easily on YouTube. He loves to share his knowledge related to electronics and has uploaded numerous project tutorials videos based on IoT, Automation & Electronics.

- Fees: Rs. 500
- Content: Appendix - A
- By Mr. Sachin Soni, founder of techiesms
- Last date to enroll for IoT Workshop: September 25, 2021
- This Two Days Workshop on IoT is Schedule on 27<sup>th</sup> & 28<sup>th</sup> September 2021.
- The workshop fee includes Registration kit, High tea, Snacks, Lunch and Certificate.

### Payment Details:

#### Bank Details of GISC

Name: GTU INNOVATION & STARTUP CENTER

Bank: State Bank of India

Account No: 36966340250

IFSC Code: SBIN0011770

Branch: IIT Gandhinagar

BHIM®  
SBI Pay



BHIM® UPI®

Registration Link: [bit.ly/diciotworkshop](http://bit.ly/diciotworkshop)

Venue: DIC, Academic Block 2, Gujarat Technological University,  
Chandkheda, Ahmedabad, Gujarat 382424

For any query you may contact to

Mr. Dilip Chaubisa – Project Assistant, Design Innovation Centre

Email ID: [dic\\_dilip@gtu.edu.in](mailto:dic_dilip@gtu.edu.in)

Mobile No: 91 – 8672868002

  
Registrar, GTU

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Appendix - A

## Workshop Content: INTERNET OF THINGS

Day	Syllabus Content
Day - 1	<i>Hardware &amp; Coding</i>
	Introduction to Arduino
	Introduction to NodeMCU
	NodeMCU vs Arduino
	Getting Started with NodeMCU (LED Blink)
	Introduction to DHT11 Sensor (Temperature & Humidity sensor)
	Plotting temperature & humidity data on Serial Plotter of Arduino IDE
	Controlling Bulb using Relay and Pushbutton.
Day - 2	<b>Internet of Things (IoT)</b>
	- Introduction to IoT
	- Real Life applications of IoT
	- Various Open Source IOT platforms
	- MQTT Protocol
	- Introduction to Adafruit MQTT broker
	- Getting Started with Adafruit IO
	- Controlling Bulb via Internet from Mobile/Laptop
	- Sending Temperature & Humidity Data over Internet to Adafruit Cloud
- Scope of Projects	

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