

# **CENTRE FOR EMBEDDED & IOT**

## **ABOUT**

An "Embedded and IoT" Technology Centre is a specialized organization or facility dedicated to advancing the fields of embedded systems and the Internet of Things (IoT). This centre serves as focal points for research, development, and innovation in embedded technologies and IoT applications. They bring together experts, engineers, and innovators to collaborate on cutting-edge projects, develop hardware and software solutions, and explore the vast possibilities of IoT in various industries, from smart cities and healthcare to agriculture and manufacturing. This centre play a crucial role in accelerating the adoption of embedded systems and IoT by fostering collaboration and knowledge exchange, ultimately driving progress and innovation in these transformative fields.

## **OBJECTIVE**

- To learn the Smart Objects and IoT Architectures.
- To learn about the various IOT-related protocols
- To build the simple IoT Systems using Arduino and Raspberry Pi
- To learn the data analytics and cloud in the context of IoT
- To develop the IoT infrastructure for popular applications

## **INDUSTRY SUPPORT**

E-Yantra Lab - Supported by IIT Bombay

## **CENTRE HEAD**

Mr.N Rajkamal M.E Assistant Professor/ECE

## **OUTCOME**

- To understand the concept of IoT
- To analyze various protocols for IoT
- To design a PoC of an IoT system using Rasperry Pi/Arduino
- To apply data analytics and use cloud offerings related to IoT
- To analyze applications of IoT in real time scenario

## CERTIFICATION

Centre Name	Academic Year	Semester	Course Name	Certification	No of students	Total No of students
Center for Embedded & IoT	2022-23	Odd	Arduino	IIT Bombay	33	82
	2022-23	Odd	Arduino	Spoken Tutorial	23	
	2021-22	Even	Arduino	Spoken Tutorial	21	
	2021-22	Odd	IoT using Arduino	Anna University	5	
	2020-21	Odd	Interfacing with Arduino	Coursera	1	
	2020-21	Odd	Introduction to IOT & Embedded Systems	Coursera	6	
	2020-21	Odd	IoT using Arduino	Anna University	7	
	2020-21	Odd	IoT using Arduino	Anna University	5	
	2019-20	Even	Introduction to IoT	Cisco Network Academy	50	









Oct 31, 2022

**BHUVANESH S**

has successfully completed

**Introduction to Architecting Smart IoT Devices**

an online non-credit course authorized by EIT Digital and offered through Coursera

A blue ink signature, appearing to be 'Bhuvanesh S', written over a horizontal line.

Internet of Things through Embedded Systems  
Architecting Smart Internet of Things Devices

**COURSE  
CERTIFICATE**



Verify at:

<https://coursera.org/verify/CO6GM72RUY88>

Coursera has confirmed the identity of this individual and their participation in the course.



Nov 2, 2022

**Sta Lin K**

has successfully completed

**Architecting Smart IoT Devices**

an online non-credit course authorized by EIT Digital and offered through Coursera

A blue handwritten signature of the student, Sta Lin K.

Internet of Things through Embedded Systems  
Architecting Smart Internet of Things Devices

A blue handwritten signature of Prof. Maarten Weyn.

Prof. Maarten Weyn  
iMinds / University of Antwerp

**COURSE  
CERTIFICATE**



Verify at:  
<https://coursera.org/verify/7J8YQRURZ8DY>

Coursera has confirmed the identity of this individual and their participation in the course.

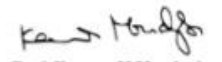


## Certificate for Completion of Arduino Training

This is to certify that **MOHAMED ANSARI N** has successfully completed **Arduino** test organized at **Mohamed Sathak A.J College of Engineering** by **Vigneshwaran V** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.

**Yamini S** from **Mohamed Sathak A.J College of Engineering** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

October 18th 2022

  
Prof. Kannan M Moudgalya  
IIT Bombay

Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India



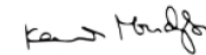


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