

### SHORT TERM COURSE ON IOT BASICS

<b>Event No</b>	CS062
<b>Organizing Department</b>	Computer Science and Engineering
<b>Date</b>	24/04/2023 to 28/04/2023 (5 Days)
<b>Time</b>	09:30 AM to 04:00 PM
<b>Event Type</b>	STTP
<b>Event Level</b>	National
<b>Meeting Medium</b>	
<b>Meeting Link</b>	<a href="https://forms.gle/mpgUjh8hofv8Uqfj7">https://forms.gle/mpgUjh8hofv8Uqfj7</a>
<b>Registration Link</b>	<a href="https://forms.gle/mpgUjh8hofv8Uqfj7">https://forms.gle/mpgUjh8hofv8Uqfj7</a>
<b>Total Participants</b>	30
<b>Faculty - Internal</b>	5
<b>Students - Internal</b>	25

#### Related SDG



#### Resource Persons

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Dr Maitreyee Dutta	Professor	NITTTR, Chandigarh	d_maitreyee@yahoo.co.in.	xxxxxxxxxx

#### Involved Staffs

Sl	Name	Role
1	Yuvaraj N	Convenor
2	Kamaraj K	Coordinator
3	Karthic S	Coordinator
4	Kathiresan K	Coordinator

#### Outcome

Create IOT projects using Arduino  
Make Arduino based Simulations with Tinkercad

#### Event Summary

The Department of Computer Science and Engineering , KPR Institute of Engineering and Technology, Coimbatore in association with NITTTR, Chandigarh has conducted **Five Day Short Term Course on "IoT Basics"** from 24 April 2023 to 29 April 2023.

The contents covered in STTP are

Introduction to IoT

Introduction to Arduino

Arduino based Simulations with Tinkercad

Introduction to IoT Communication Protocols and implementation

Practical approaches and implementation with sensors

Simulation of Smart city

Use cases

Introduction to IoT was handled by Dr. Maitreyee Dutta, Professor, NITTTR, Chandigarh. The session on Introduction to Arduino was also handled Dr. Maitreyee Dutta, Professor, NITTTR, Chandigarh. The session provided handon experience in creating Arduino based IOT projects. The next session was conducted on the topic titled Arduino based Simulations with Tinkercad and was handled by Dr. Sandeep Singh Gill, Professor, NITTTR, Chandigarh. The next session was handled by Dr. Jagriti Saini, Founder & Owner, Eternal RESTEM, Sunder

Nagar, HP on the topic Introduction to IoT Communication Protocols and implementation. The next session was on the topic Practical approaches and implementation with sensors and was handled by Mr. Kamal Katyal, NITTTR, Chandigarh. The session provided insights about various types of sensors and applications and implementation challenges in imparting them into a project. The next session was on the topic Simulation of Smart city was handled by Mrs. Manisha Malik, NITTTR, Chandigarh. The session further discussed various real time use cases in the field of IOT. The participants found the sessions very useful and gave positive feedback about the STTP.



**Department of Computer Science and Engineering**  
 in association with  
**NITTTR Chandigarh**  
 Organizes an  
**Five Days Short Term Course on**  
**"IoT Basics"**

**Course contents:**

- Introduction to IoT
- Introduction to Arduino
- Arduino based Simulations
- Introduction to IoT Communication Protocols and implementation
- Practical Implementation with sensors
- Simulation of Smart city
- Use cases

**Resource person:**  
 Dr. Maitreyee Dutta,  
 Professor, NITTTR, Chandigarh  
 Dr. Sandeep Singh Gill,  
 Professor, NITTTR, Chandigarh  
 Dr. Jagriti Saini,  
 Founder, Eternal RESTEM,  
 Sunder Nagar, HP  
 Mr. Kamal Katyal,  
 NITTTR, Chandigarh  
 Mrs. Manisha Malik,  
 NITTTR, Chandigarh

**24<sup>th</sup> Apr to 28<sup>th</sup> Apr 2023** **Registration Link** **09:30 AM - 04:00 PM**

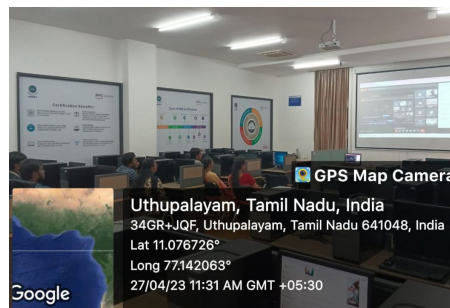
**Coordinators**  
 Dr. Kamal Katyal  
 Dr. Manisha Malik

**Convener**  
 Dr. Virendra N. Hada

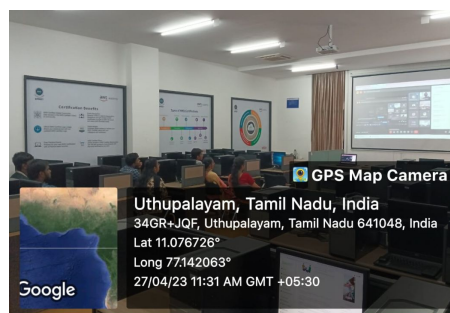
<https://forms.gle/mqg3hthv8Ug7f>  
 Selection based on first come basis  
 Note: Last date to fill registration form: 15/04/2023

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