



TECNIA
INSTITUTE OF ADVANCED STUDIES
GRADE "A" INSTITUTE
DELHI INDIA

Report on Internet of Things

Title of Activity*	Workshop on Internet of things
Values	<ul style="list-style-type: none">✓ Connectivity✓ Interoperability✓ Data Privacy✓ Security
Learning Outcomes	<ul style="list-style-type: none">✓ Understanding of IoT Concepts and Principles✓ Familiarity with IoT Architecture and Frameworks✓ Knowledge of IoT Networking and Communication✓ Ability to Design and Deploy IoT Solutions
Organized by	Technical Club under the Department of Information Communication and technology
Program Theme*	Workshop on Internet of Things
External Expert / Internal Expert	Sarthak Arora (BCA 4 th Semester) Vipul Saraswat (BCA 4 th Semester) Hiba (BCA 2 nd Semester) Fagun (BCA 2 nd Semester) Rukaiya (BCA 2 nd Semester)

HOD
BCA-TIAS
Dr. Deepak
HOD ICT

Date*	8-06-2023
Time*	11 am onwards
Venue	Tecnia Auditorium

Poster/Flyer/Notice*

Social media link

https://m.facebook.com/story.php?story_fbid=pfbid0uiHtBobKF8UXDebM2vL2x4eUjWfYhAW4FDMzkG5PDscsBNWt1AG6rajsF9F571JRI&id=100063529675428

No. of Students*

127

No. of Faculty*

15

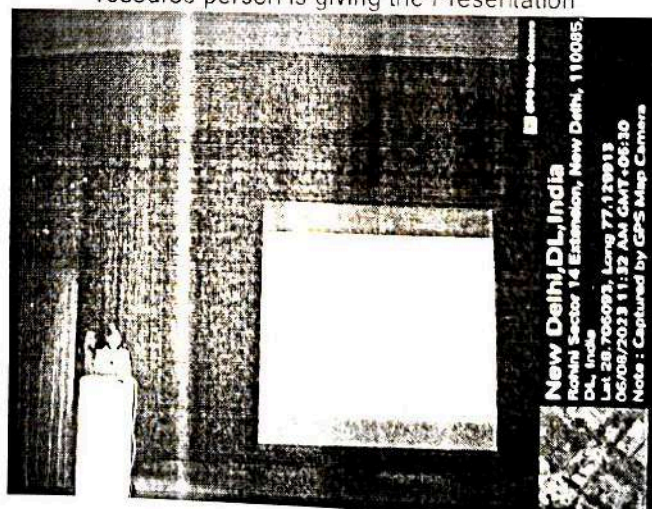
No. of External Participants

3

(Geotag) Photograph*

Photograph of the Event with the Caption

resource person is giving the Presentation

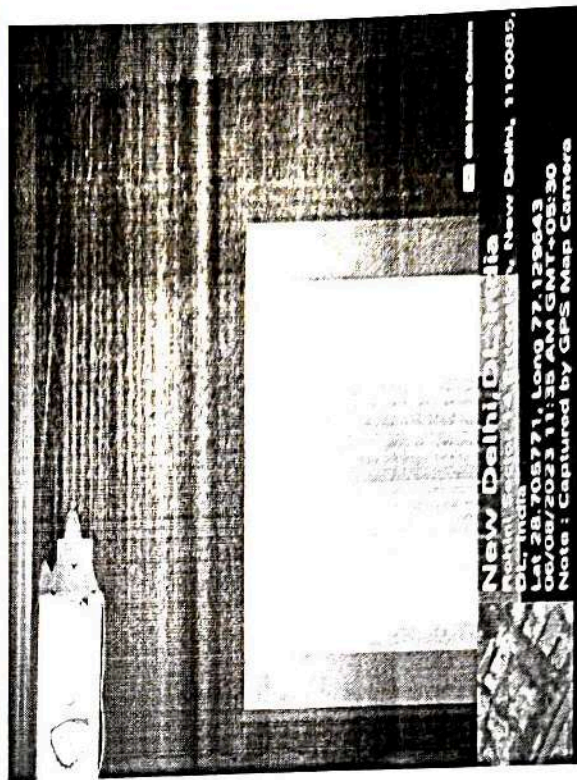


HOD
BCA-TIAS

Dr. Deepak

Dr. Deepak
HOD ICT

Demonstration by Resource person



Report: Description in

Department of Information communication and Technology has organized a workshop on “Internet of Things” for BCA students on Date 8/06/2023 in auditorium from 11.00 AM to 2:00 PM. Around 127 students took part in the workshop.

The speaker firstly introduced about the introduction of IOT and then they gave the technical perspective. The Session was started with a lecture on basic concepts discussed in the auditorium with the demonstration.

The Internet of Things (‘IoT’) – all-embracing heterogeneous networks of smart devices hyper-connected with each other via the Internet – is on the rise and will become reality within the next five years. The decisive change accompanying the IoT will be its ubiquity: networked devices are everywhere. Like any technological progress, this development offers social and economic opportunities, but at the same time it also harbors risks and detrimental impact. Notably, the IoT is transforming and disrupting our daily lives faster than any other technology before. The aim of workshop to discuss real life use cases on IoT application and make the session really interactive

HOD
BCA/TIAS
Dr. Deepa Sankar
HOD ICT

by providing an opportunity to suggest a solution to real life scenario also has been include to discuss some bonus: IoT demo applications with raspberry Pi board. Day ended with the demonstration of live project such as temperature monitoring.

The main headlights of the workshop are given below:

- ✓ Different types of Arduino board such as Arduino Uno, Arduino Uno R3 SMD, Arduino Pro 3.348 MHz , Arduino mini , Arduino Ethernet and there characteristics (Power supply, clock speed, Digital I/O, Analog Input, PWM modulation and different kinds of interfacing.
- ✓ Wi-Fi module Programming with Arduino.
- ✓ Interfacing of sensors and uploading data on cloud.
- ✓ For Interfacing different types of sensors with Arduino and Arduino with data base ,different programming steps have been discussed (function , statement ,control statement levels variables, math, pin mode, serial mode, digital mode variable, delay and for loop)
- ✓ Interfacing and controlling various devices like LED, motors, sensors etc. with Arduino. Four examples have been taken as a hands-on such as LED glow, Switch sensing, Temperature display, small motor controlling.
- ✓ The ceremony and function came to an end with a group photo session.

Resource Person Profile

HoD
BCA-TIAS
Devi Deolake
MOD ICT

Sarthak Arora is a student of BCA in Tecnia. He has good tendency to complete the targets within the given time limits. He has good academic record. He has good knowledge of Java, Java script, C, C++, HTML and SQL and IOT.

Vipul Saraswat is a student of BCA in Tecnia. He has ability to develop web content and gather sufficient information by Internet surfing. He is good in coding. He has good knowledge of python and its library.

Hiba is a student of BCA in Tecnia. She is very good communicator. She has nice coding skills. She has good command over verbal and written English

	<p>Fagun is a student of BCA in Tecnia. She is Hardworking with an ability to learn new things quickly</p> <p>Rukaiya is a student of BCA in Tecnia. She has ability to develop web content. She has good knowledge of IOT.</p>
Attendance Sheet*	Attached at the end of Report
Feedback	Sample feedback Attached at the end of Report
Report Submitted by	Ms. Geeta Rani
For Office Use	
Signature of Event Coordinator	Signature of School/Department Head (With Seal)
	<p>HOD BCA-TIAS</p> <p><i>[Signature]</i> Dr. Devala HOD ICT</p>

Fields marked with '*' are mandatory