

# MANGALMAY INSTITUTE OF ENGINEERING & TECHNOLOGY

## Report on

### ONE DAY ONLINE WEBINAR ON IOT & ROBOTICS IN INDUSTRIES

**Event Name:** "ONE DAY ONLINE WEBINAR ON IOT & ROBOTICS IN INDUSTRIES"

**Organizer:** Department of Computer Science & Engineering & Electronics & Communication Engineering, MIET, Gr. Noida

**Date:** 27/06/2020

**Officials Attended:** Mr. Ayush Mangal (COO), Dr. Yashpal Singh (Director, MIET) and Prof. Harish Bhatia (Dean, MIET)

**Platform used:** Microsoft Teams Office

#### Introduction:

The Covid-19 epidemic has made every country realise the importance of research and development. However when initiatives in this area is seen at ground level, very few institutes stand out. One such initiative was taken by Mangalmay Institute of Engineering & Technology, Greater Noida on 27<sup>th</sup> June, 2020. Department of Computer Science & Engineering & Electronics & Communication Engineering, MIET, Greater Noida organized an online webinar "ONE DAY ONLINE WEBINAR ON IOT & ROBOTICS IN INDUSTRIES". The participation was online through "Microsoft Platform – Teams" and special care was taken by MIET administration and Organizing Committee to follow norms of sanitization and social distancing.



*SK*  
Coordinator  
Event  
Amit Kumar Kesarwani (Ass. Professor)

*Dheeraj*  
HOD  
Dhananjay Singh  
(Asst. Prof.)

*Yashpal*  
Dean  
Mangalmay Institute of Engineering & Technology,  
Greater Noida (UP)-201310  
(College Code-786)



The inaugural ceremony commenced at 12:00 p.m. All the participants were welcomed by Prof. (Dr.) Yashpal Singh, Director MIET, Mangalmai Group of Institutions addressed the participants and stressed on student research development. The session was chaired by Mr. Bhupendra Singh and moderated by Mr. Dhananjay Singh. The webinar concluded with a "Vote of Thanks" from Prof. Harish Bhatia, Dean MIET, Greater Noida. Prof. Harish Bhatia thanked the industry expert Mr. Bhupendra Singh for their valuable time and insights. He also thanked all the participants for their active participation and stressed on need of such programs at this time.

#### Detailed Report:

**The Internet of Things (IOT)** describes a worldwide network of intercommunicating devices. At this point (IOT) must be seen as a vision where "things", especially everyday objects, such as nearly all home appliances but also furniture, clothes, vehicles, roads and smart materials, and more, are readable, recognizable, locatable, addressable and/or controllable via the Internet. This will provide many new applications, such as energy monitoring, transport safety systems or building security. This vision will surely change with time, especially as synergies between Identification Technologies, Wireless Sensor Networks, Intelligent Devices and Nanotechnology will enable a number of advanced applications.

**IoT is the ability** for things that contain embedded technologies to sense, communicate, interact, and collaborate with other things, thus creating a network of physical objects.

#### Opportunities and applications in IOT:

- Our country is moving towards the 'Smart City'. We want to contribute in the "Make in India" campaign of our Prime Minister Shri NarendraModiji.
- The concepts behind Smart Homes, Smart watches, Smart cities etc are nothing but IoT (Internet of Things) Which can be controlled or monitored via any remote location through mobile or web.
- Government of India has allocated 7,060 crore for 100 new smart cities in Budget 2015- 16.
- Million Jobs to be generated for IOT's trained professionals in top companies by 2017 (27 billion objects will be connected 2017).
- 90 % of Top electronics products companies like (Intel, Qualcomm, apple, IBM, Microsoft, Samsung, and L.G.and Amazon) are going to be smart.

#### Applications:

There are several applications of networked Things in Agriculture, Healthcare, Retail, Transport, Environment, Supply chain management, Infrastructure monitoring etc. Some of them are listed below:

**Agriculture:** Applications in Agriculture include Soil and plant monitoring, Monitoring of food supply chain, Monitoring of animals

**Retail Management:** Retailing has many applications areas of business interest. It includes monitoring customer behavior and preferences, Shelf stock tracking, context based advertising and product promotions, vending machines, automated checkout, and

*Hk*  
Co-ordinator  
Event

Amit Kumar Kesarwani  
(Assistant Professor)

*Dhruv*  
HO &

Dhananjay Singh  
(Assistant Professor)

*Harish Bhatia*  
Dean College

Dean  
Mangalmai Group of Institutions  
Greater Noida  
College Code-7

Technology



theft control.

**Healthcare:** Identification of spurious drugs is a major application in healthcare area. Other application areas are personal health monitoring, telemedicine, assisted living.

**Security:** Detection of counterfeit goods, Access control, restricted materials, Banknotes, Passports.

**Government and public sector:** Disaster management, Forest monitoring, Tourism support, Homeland security, Pollution monitoring.

**Home:** Home security, Smart - home (lighting, entertainment, energy management, assistance) Sports: Sports equipment: user performance monitoring, Safety.

**Snapshots:**



Submitted By: Mr. Dhananjay Singh (Asst. Prof. Dept. of ECE)

Event Coordinator: Mr. Amit Kumar Kesrawani (Asst. Prof. Dept. of ECE)

Submitted To:

Dean

MIET Greater Noida

Dean  
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Director

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**MangalMay Institute of Engineering & Technology,  
Greater Noida (U.P)**

Webinar on

**IoT & Robotics  
in Industries**



 **27 June 2020**

 **12:00 PM**



BY

**Er. BHUPENDRA SINGH**  
(Founder & Director - ROBOTRONIX INDIA)

<https://www.robotronix.co.in/webinar-register.php>

**No Registration Fee**

E-Certificate will be given to the Participants

Coordinated by  
Department of CSE & ECE



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