

# Registration Form

## Workshop on

## Internet of Things (IoT 2020)

27<sup>th</sup> & 28<sup>th</sup> February, 2020



Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization/Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Delegate Category:      Research Scholar   
   Students

Amount: ----- Cash

Demand Draft No.: \_\_\_\_\_ Dated \_\_\_\_\_

Drawn (Bank Name): \_\_\_\_\_

Signature of Sponsoring  
Organization with seal  
Date:

Signature of Candidate

### ABOUT THE ORGANIZATION

Usha Martin University was set up in 2012 vide Usha Martin University, Jharkhand Act 2012, to carry its mandate of providing inclusive quality higher education in different fields for sustainable development of the society in the state of Jharkhand and be in conformity with the priorities of the Ministry of Education, Govt. of Jharkhand. The University is duly recognized by the University Grants Commission under Sec. 2(f) of UGC Act 1956 as a self-financing Private University. Usha Martin University offers a wide range of programmes across disciplines and at various levels of Diploma, UG, PG and Ph.D. programmes.

The University aims at nurturing and harnessing local talent to encourage social re-engineering and human capital building in the state.

### ABOUT THE WORKSHOP

IoT-2020 is being organized by Faculty of Computing and Information Technology of Usha Martin University, Ranchi. Theme of the Workshop is "**Internet of Things**". The Internet of Things is a network of physical devices with embedded technology that can communicate their status, operation, location, and environment. The key elements of IoT are:

*Devices*—that collect and communicate data and actuators that can act upon the data

*Data*—information collected by devices that enables monitoring, automation, and analysis

*Connectivity*—to move data to where it can best be acted upon by other devices or people and analyzed for predictive insights

The workshop facilitates the exchange of new ideas in the fields of Engineering, and Technology.

## Workshop

on

## Internet of Things

(IoT 2020)

27<sup>th</sup> & 28<sup>th</sup> February, 2020



**Usha Martin University, Ranchi,  
Jharkhand, India**

**Website**

<https://www.ushamartinuniversity.com/>

## OBJECTIVE OF THE WORKSHOP

The objective of the workshop is to promote scientific and educational activities towards the advancement of common man's life by improving the theory and practice of various disciplines and sectors of Engineering, Science and Management.

The aim of the workshop is to provide a platform to the researchers and students from both academia as well as industry to meet and share cutting-edge development in the field.

## ORGANIZING COMMITTEE

- Dr. Vinay Singh
- Dr. Sharmistha Roy
- Dr. Md. A. K. Akhtar
- Dr. Ritushree Narayan
- Dr. Naghma Khatoun
- Prof. Prashant Pranav

## RESOURCE PERSON

- Dr. Itu Snigdha (BIT Mesra)
- Dr. Md. A. K. Akhtar

## The Programme Coordinator

**Dr. Sharmistha Roy**  
Usha Martin University, Ranchi  
Ranchi - 835103, Mob. No: 9438160946  
email: [umu.iot.2020@gmail.com](mailto:umu.iot.2020@gmail.com)

## REGISTRATION FEE

All delegates attending the workshop must register by filling the registration form and by paying the fees mentioned below. **It is mandatory to bring own Laptop for Hands-on session.**

Registration fee includes

- Participation fees
- Registration Kit
- Certificate
- Snacks and Lunch

Type of Delegates	Delegate Fee (27th & 28th February, 2020)
Student/ Research Scholar	Rs.1000/-

**(Last Date for Registration is 22<sup>nd</sup> Feb 2020)**

## Bank Details:

(The bank details given below may be used for online money transfer)

Bank Name: **YES Bank**

Account No.: **008094600000949**

Branch Name: Kutchery road branch,  
near Ranchi University

IFSC Code: **YESB0000080**

## VENUE

**Usha Martin University Campus, 12th Mile,  
Ranchi Khunti Road, Near Hardag, Ranchi,  
NH75, Ranchi, Jharkhand 835221**

## PROGRAMME SCHEDULE

### Day1 (27.02.2020)

- Introduction to the Internet of Things
- The Arduino Platform
- Arduino Board Layout & Architecture
- Arduino Programming & Interface of Sensors
- The Basics of Sensors & Actuators

### (HANDS-ON TRAINING)

- Project 1: Temperature Controlled System
- Project 2: PIR Motion Sensor Project
- Project 3: Automatic Irrigation System

### Day2 (28.02.2020)

- IoT communication protocols
- MQTT protocol
- Client Server Architecture
- Connecting Arduino with Mobile Device.
- Using the Bluetooth Module

### (HANDS-ON TRAINING)

- Project 1: MQTT & Client Server Project
- Project 2: Home Automation System
- Project 3: Bike Automation System

**[Delegates are requested to carry own Laptop for Hands-on session]**