CERTIFICATE COURSE ON

INTERNET OF THINGS

Learn to Design and Operate Smart Devices

1   **Registration Open on** June 5, 2021
Registration Link: https://forms.gle/p3bDso1ZiJ3QmAjY7

2   **Basic Course on Internet of Things**
First Batch Starts on: June 15, 2021

3   **Advanced Course on Internet of Things**
First Batch Starts on: July 15, 2021

About Indus University

Indus University has been established with the objective of making a noteworthy contribution to the social, economic and cultural life of our country. Having faith in the power of education, the builders of this university intend to impart knowledge to youngsters of society. The three pillars on which this university firmly stands are – educational wisdom, professional brilliance, and research & innovation, all of which are aimed at nurturing a spirit of entrepreneurship and social responsibility.

Indus University has 8 constituents institutes offering UG, PG and Doctoral degree programmes in diverse disciplines courses of Engineering, Management, Science and Humanities, Information communication technology, Design and Architecture, Aviation Technology and Indic Studies.

About Indus Institute of Technology and Engineering

Indus Institute of Technology and Engineering is one of the flagship institutes of Indus University. It aims at providing innovative education on par with the industry needs and marshals the brightest minds as a global pool of professionals. At IITE, we offer UG, PG and PhD programmes in various streams of Engineering.

Institute of Technology & Engineering provides work and play environment to boost students persona and intellect quotient all through the academic period. While they are exposed to fieldwork, much weight is given to research and development in the fields of engineering. Students are encouraged and supported in a variety of ways to plan and execute startups. High-class laboratories and modern tools are available to ease the journey of booming startups and innovation. Faculty members at ITE play a significant role in building entrepreneurs par excellence.

| Computer Engineering | Civil Engineering | Mechanical Engineering | Electronics and Communication Engineering | Metallurgical Engineering | Automobile Engineering | Electrical Engineering |

About Electronics and Communication Department

The department of Electronics and Communication engineering started in 2008 at Indus Institute of Technology and Engineering. In addition to imparting high quality teaching, the department offers excellent technical support for research and opportunities to work in industrial projects.

The Department offers following courses
- B.Tech (Electronics & Communication)
  * 4 Years Full Time Course with Add-Ons in Internet Of Things, Data Science And Cyber Security
- M.Tech (Digital Communication)
- M.Tech (VLSI & Embedded Systems)
- Ph.D
- Following are the proposed courses inline to the recent trends and technologies

1. Machine Learning   2. Artificial Intelligence   3. Wearable Electronics   4. Industrial Internet of Things

About the Course

Internet of Things, or IoT in short, is the idea of making devices and objects smarter by linking them to the internet. The basic building blocks of IoT Network includes development boards like Arduino and Raspberry Pi and are the most advanced credit card sized computers with all the features that a computer is supposed to have. We can browse, play games and develop mobile or desktop applications with a system configured with such development boards. This course will cover Arduino and Raspberry Pi with different communication protocol and interfacing sensors.

Following are the key objectives of the course.

- To Understand the definition and significance of the Internet of Things and its Architecture
- To develop the skills of Arduino Programming for implementing Embedded System Applications
- To Understand the programming concepts of python and its applications on Raspberry pi development board.
- To develop skills of interfacing sensors with Arduino, ESP8266 & Raspberry pi for IoT applications.

Why Learn IoT

The Internet of Things is ushering in a new era of technology and is set to change consumer habits and the way business is conducted.

Some other reasons to learn IOT are:

- The number of connected devices to reach 25 billion in 2020
- Global market for IOT reach US$ 1,102 billion by 2026
- Around $6 Trillion is estimated to be spent on the Internet of Things (IoT) solutions in the next five years
- Businesses are leveraging insights derived from data collected from connected devices.

Eligibility for Registration

To become eligible for registering to certificate course on Internet of Things, you must be from the background of Science, Technology, Engineering and Mathematics (STEM)

There is absolutely no pre-requisite for the courses even higher secondary students of science stream can opt .

Registration Process:

Basic Course Registration : June 5, 2021 to June 14, 2021   **Advance Course Registration:** June 5, 2021 to July 14, 2021

The basic course will start from June 15, 2021 and advanced course will starts from July 15, 2021.

Registration for basic and advance course please click on the link : https://forms.gle/p3bDso1ZiJ3QmAjY7

For Inquiries contact: ec.certificatecourse@indusuni.ac.in

Course Highlights

- Usage of Arduino , ESP8266 and Raspberry pi development boards
- How to connect device to the cloud platform?
- Controlling a device from anywhere from the world via internet
- Monitoring surrounding environmental parameter's such as temperature, humidity and updating it on cloud platform

Hands on Training sessions on Internet of things at Indus University

Benefits to the Participants

- Hands on based Learning on Internet of things and Arduino, ESP8266 & Raspberry Pi
- Trained on Arduino and Python programming
- Soft copy of Course Material, PPT's
- Projects based Learning
- Course Certificate

Course Fees:

Basic Certification Course

Indus University Students : Rs. 1000/-
Other University Students: Rs. 1500/-

Advanced Certification Course

Indus University Students : Rs. 2000/-
Other University Students: Rs. 3000/-

Note: University has arranged Hands-on kits for participants on special rates and will be available on production of Photo ID proof.

Chief Patrons:
Dr. Ritu Bhandari
Dr. Nagesh Bhandari
Presidential Secretariat, Indus University

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Dr. V. K. Srivastava
Executive President, Indus University

Chairperson
Dr.-Ing Anupam Kumar Singh
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