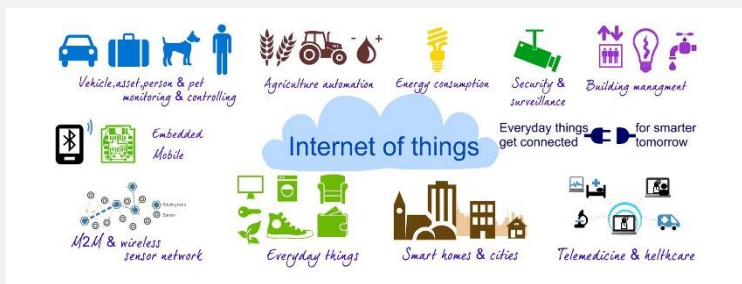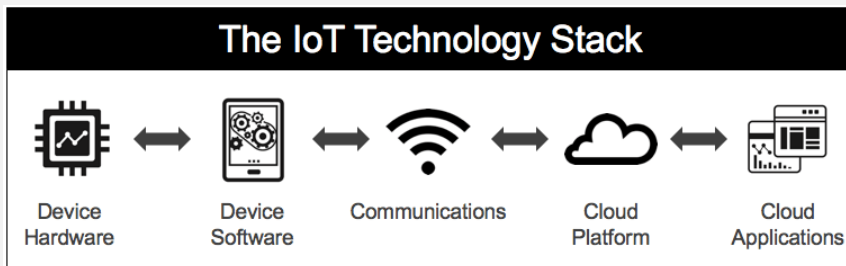# BCA in Internet of Things

Objective

BCA in IoT provides sound academic base for advanced career in computer application in its varied aspects and sets up a launch pad for challenging career in the field of IoT.

What is Internet of Things?

The Internet of Things (IoT) is the network of physical objects—devices, vehicles, buildings and other items embedded with electronics, software, sensors, and network connectivity—that enables these objects to collect and exchange data.

The Internet of Things (IoT) is a network of dedicated physical objects (things) that contain embedded technology to communicate and sense or interact with their internal states or the external environment.

Why Internet of Things?

Internet of Things provides innovative business opportunities, and growth and development prospects in IT sector. IoT helps companies to easily gather necessary information regarding customer satisfaction and grievances and product designing. Improved tracking facilities will help in logistics, storage and inventory control. The manufacturing industry is the primary user of IoT.

Facts

- According to Forbes, the global Internet of Things (IoT) market is projected to grow from $2.99T in 2014 to $8.9T in 2020, attaining a 19.92% Compound Annual Growth Rate (CAGR)

- As per CSS Insight, the wearable market could grow to $25 billion by 2019. These wearable devices like fitness trackers, smartwatches are connecting more regular customers to the IoT.

- Smart homes are not a thing of future anymore. As per a research did by a company named Zion, the smart home automation market could grow to the staggering number of $53 billion by 2022.

To meet this demand, Jain University has designed this unique specialization program and the learning experience as follows:

- Program offers flexibility to students in making their career choices in either of the niche areas or in a combination of them
- Unique learning path that teaches technical skills, enhances non-technical skills that are topped-up with orientation by industry experts thus significantly improving Industry Readiness Quotient
- Offers opportunities for Value Added Programs that compliments learning through academic curriculum
- Acquire knowledge of fundamental concepts, design strategies, technical architecture, infrastructure requirements, services, deployment model, tools and techniques required in IoT through syllabus designed in alignment with latest trends
- Accelerate understanding through application-oriented and student-centric learning
- Augment curriculum with pragmatic approach through projects, knowledge exchange forums and sessions by professionals

What job opportunity awaits you?

- IoT Product Manager
- IoT Architect
- IoT Developer
- Robot Co-ordinator
- Chief IoT Officer
- Industrial UI/UX designer
- IoT Business Designer

Learning Path

Foundation Level: Computer Fundamentals & Organization, Programming in C, Introduction to Linux, Operating System, OOPS with C++, Data Structures Using C, Computer Networks, Programming in JAVA, HTML5, CSS, JavaScript.

Intermediate Level: Introduction to IoT , Sensor Technologies, Communication Protocols, Adhoc Mobile Wireless Network, Embedded C with Adruino, Digital Signal Processing.

Professional Level: Advanced Embedded System, IoT System Design, Data Visualisation, Mobile Application Development, Cloud Computing, Machine Learning, Big Data Analysis.

Career opportunities with the companies on IoT