



» Course Overview

First, we had the internet of computers. Then with the advent of email and social media, along with mobile technology, it became the internet of people. Today’s world is increasingly becoming the internet of things. With advances in battery power, sensors, and computer chips, more and more devices are being connected to the internet. This will allow them to be monitored, controlled, and used more effectively for people and businesses. This course will examine the trends and opportunities surrounding the Internet of Things (IoT). Students will learn about the technologies, hardware, and software that underpin the Internet of Things. The course will examine a variety of end-market applications in our homes, businesses and cities. Finally, students will learn about the many career opportunities that the Internet of Things will enable.

» **Course Preview Video:** <https://www.pointfuleducation.com/internet-of-things-preview-video>

» Course Outline by Module

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|----------|--|-----------|-------------------|
| Module 1 | Introduction to the Internet of Things | Module 6 | IoT in Healthcare |
| Module 2 | The Internet and the Cloud | Module 7 | IoT and Cars |
| Module 3 | IoT at Home | Module 8 | IoT at the Store |
| Module 4 | IoT and People | Module 9 | IoT and Farming |
| Module 5 | The Industrial IoT | Module 10 | IoT and Cities |

» Instructional Components

Pointful Education Courses are structured in a consistent, research-based format utilizing multiple pedagogical concepts such as Understanding by Design, Growth Mindset, and Video and Project-based learning. Through the use of these pedagogical concepts, Pointful Education maintains a consistent and engaging course structure that supports student-centered learning.

Course Structure



Instruction
50%



Projects
7%



Reflections
20%



Concept Checks
8%



Exams
8%



Written Assignments
7%