Course Overview

From hearing aids to pedometers to smart watches, humans have made and worn devices to overcome physical deficiencies, count their steps, and communicate. With the continue miniaturization of chips and sensors, combined with increasing sophistication of artificial intelligence, wearable technology has proliferated into countless end-markets. This course will introduce students to wearable technologies and the components and software that make these technologies possible. The course will also evaluate several applications of wearable technologies in various industries. Finally, the course will examine and discuss the implications of wearable technology, including its pros and cons, and potential implications to our health, privacy, and society.

Course Preview Video: https://www.pointfuleducation.com/wearables-preview-video

Course Outline by Module

<table>
<thead>
<tr>
<th>Module 1</th>
<th>Module 6</th>
<th>Module 2</th>
<th>Module 7</th>
<th>Module 3</th>
<th>Module 8</th>
<th>Module 4</th>
<th>Module 9</th>
<th>Module 5</th>
<th>Module 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Wearable and Implantable Technologies</td>
<td>Wearable Technology in Fitness and Sports</td>
<td>Components and Software of Wearables</td>
<td>Wearable Technology in Public Safety and the Military</td>
<td>Batteries in Wearables</td>
<td>Wearable Technology in Fashion</td>
<td>Product Design of Wearables</td>
<td>Wearable Technology in Education</td>
<td>Wearable Technology in Healthcare</td>
<td>Wearable Technology in Business</td>
</tr>
</tbody>
</table>

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: 49%
- Projects: 7%
- Reflections: 21%
- Concept Checks: 9%
- Exams: 8%
- Written Assignments: 7%