

## COURSE OVERVIEW

Jan 27 Mon Wearables (smartwatches, smartbands, intelligent ear phones)  
Enterprise applications (smart vehicles, intelligent care systems)  
Challenges in big and small data (realtime learning for intelligent devices)  
Challenges in security and privacy (data theft)  
Challenges in networking (low latency, low-cost, fine-grain virtualization)

## IOT TECHNOLOGY AND SERVICES

Jan 29 Wed Smart home (appliances and homecare)  
Feb 3 Mon 3D image sensing (gesture recognition)  
Feb 5 Wed Lowpower SoC (embedded platforms)  
Feb 10 Mon Wearables and motion sensors (smart watches/bands/glasses, accelemeters, gyroscopes)

## INTELLECTUAL UNDERPINNINGS IN COMPUTER SCIENCE

Feb 12 Wed Intelligent IoT (i): personalized gesture recognition  
Feb 17 Mon (University Holiday: President's Day)  
Feb 19 Wed Intelligent IoT (ii): machine learning basics  
Feb 24 Mon IoT programming (i): javascript, nodj, web socket and html 5  
(Breadboard lab assignment due)  
Feb 26 Wed IoT networking (scaling the network)  
Mar 3 Mon Secure IoT (I): basic concepts  
Mar 5 Wed Secure IoT (II): attacks  
Mar 10 Mon Secure IoT (III): solutions  
(1-page abstracts of proposed course projects are due Sunday midnight, Mar 9.  
Students receive feedback from teaching staff on Tuesday, Mar 11)

## COURSE PROJECTS

Mar 12 Wed Commercializing connected devices  
Mar 17 Mon (Spring Recess)  
Mar 19 Wed (Spring Recess)  
Mar 24 Mon Project proposal presentations  
(Link to the relevant research paper to be presented is due Tuesday midnight, Mar 25)  
Mar 26 Wed Project proposal presentations  
Mar 31 Mon Research paper presentations  
Apr 2 Wed Research paper presentations  
Apr 7 Mon Research paper presentations  
Apr 9 Wed IoT programming (ii): WebRTC and databases  
  
Apr 14 Mon Individual team meetings  
Apr 15 Tue Individual team meetings  
Apr 16 Wed Individual team meetings

## WRAPPING UP

Apr 21 Mon Project presentation rehearsals  
Apr 23 Wed Project presentation rehearsals  
Apr 28 Mon Student project presentations  
Apr 30 Wed Students receive advice on their project reports  
  
May 12 Mon Project final reports due