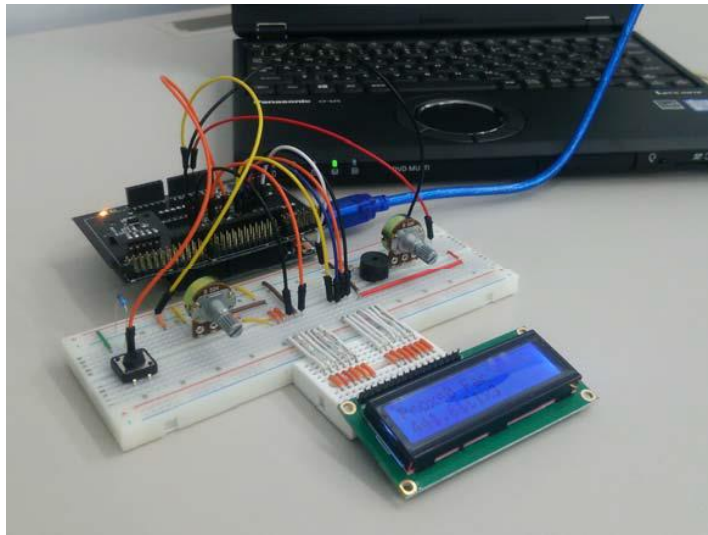


# Introduction to an IoT Device Design Using a Microcontroller Unit (Hanyu-Natsui-Onizawa Lab.)

Various electronic devices, from smartphones to home appliances, have embedded microcontroller units (MCUs). MCUs process information from the sensor in cooperation with the server via the Internet, which provide users with a variety of benefits that contribute to the advanced ICT society.



The purpose of this course is to understand the role of MCUs in sensor nodes, the key element of the Internet of Things (IoT) society, and to learn the basics of designing creative IoT sensor node devices using small MCUs (M5Stack) and system control technology via cloud servers over the Internet.