

The Chinese University of Hong Kong  
Department of Information Engineering  
IERG4230 / IEMS5721 Introduction to IoT  
Mini-project Materials Lending Form

Session : 2:30-4:15	Session : 2:30-4:15
Student 1 Name : Chan Kwan Chuen	Student 2 Name : Leung Wai Pan
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**Group-A: Project boards and basic setup**

S/N	Items	Quantity	Date	Signature
A1	IERG4230 full size Main project board <small>(with I<sup>2</sup>C 4x4 keypad and LCD display, Nano, Yun and BLE are not included)</small>	1		
A2	IERG4230 half size Main project board	1 / 2 (2)		
A3	ESP8266 with or without I/O extended board	1 / 2 (3)		
A4	Bluetooth BLE project board	1 (2)		
A5	Arduino Nano	1 / 2 (3)		
A6	XBee	1 / 2 (3)		
A7	2.4GHz USB WiFi LAN adapter	1		
A8	USB to Serial Cable (for Xbee)	1		
A9	CC-Debugger (with flat cable)	1		
A10	Sniffer dongle (orange color)	1		
A11	Host dongle (blue color)	1		
A12	3V FeLiPO4 Re-chargeable battery	2 / 4 (6)		
A13	FeLiPO4 re-chargeable Battery charger	1 (2)		
A14	Mini-USB cable	1		
A15	Micro-USB cable	1		
A16	AC adapter – DC 6V output	1		

**Group-B: Sensors, relate to course experiments**

S/N	Items	Quantity	Date	Signature
B1	3-axis acceleration sensor module (MMA7361)	1		
B2	Light detected resistor (LDR)	1 / 2 (3)		

Group-C: Other devices (by request, *self-study, first come first serve*)

S/N	Items	Quantity	Date	Signature
C1	Human movement sensor (PIR, 5V, Digital)			
C2	Temperature Sensor (LM35, Analogue)			
C3	Temperature Sensor (LM75, I <sup>2</sup> C)			
C4	Temperature and Humidity Sensor (AM2320, I <sup>2</sup> C)			
C5	Temperature and Humidity sensor (AHT10, I <sup>2</sup> C)			
C6	Sound source - Beeper, (Buzzer, Digital Output)	4		
C7	Switch (Dual tact switches, Digital Input)	4		
C8	Light sensor module (Light Dependent Resistor with op-amp, Analogue & digital outputs)			
C9	MEMS Motion sensor (LIS3DSH, Three-axis linear accelerometer, I <sup>2</sup> C)			
C10	Heart Rate Sensor (MAX30102, I <sup>2</sup> C)			
C11	Microphone (MIC, Analogue & digital outputs)	2		
C12	OLED Display (SSD1306, I <sup>2</sup> C)	4		
C13	Touch switch (TIP223, Digital)	2		
C14	Microwave Motion Sensor (RCWL-0516, 5V, Digital)			
C15	Soil Moisture Sensor (Analogue)			
C16	Ultrasonic Sensor Distance Measuring Module (HC-SR04, 5V, Digitals)			
C17	Electronic scale, weight sensor (HX711AD, Digitals)			
C18	RFID reader (MFRC522, I <sup>2</sup> C)			
C19	Light density detector (BH1750, I <sup>2</sup> C)			
C20	Servo (it take high current, consult technicians)			

Self-propose Sensors

S/N	Items	Quantity	Date	Signature

Student Name: Chan Kwan Chuen Signature : milton chan

Student ID : 1155144468 Date : 25 Nov