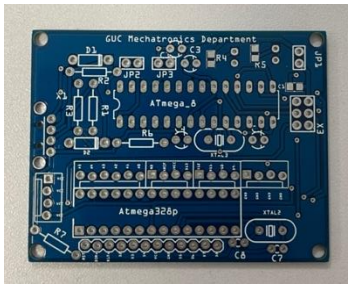
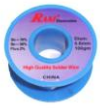
List of components required for each student

Name of Component	Number
AVR Embedded PCB	1 
IMU MPU6050 “3-axis Acceleration Gyroscope Module”	
DC motor	1
Coupler or Servo motor	
L289 H-bridge driver module	1
ADC 0808	1
Bread board	1
Resistor 330 ohm	15
Resistor 220 ohm	10
Resistor 1k ohm	10
Push buttons	5
Battery 9VDC	2
Potentiometer 10k	2
LEDs	15
Voltage regulator LM 7805	2
Power supply (Adaptor)	1
Cables for connections	Some
Male-Male cables	Some

AVR USBasp programmer (Shareable)	
Soldering Iron (Shareable)	
Tin for soldering (Shareable)	
Sandpaper	

Components for AVR Embedded PCB:

Capacitator 22p	6
3.3V Zener Diode	2
Resistor 68 Ohms	5
Resistor 2.2KOhms	5
Resistor 1 KOhms	20
Resistor 10Kohms	5
12 MHZ Crystal	1
16 MHZ Crystal	1
3mm LED green and red	2
USB	USB-Male

6 x male headers (packs of 20)	1
2 x male headers (packs of 20) + Jumper connectors	3
4 x female headers (packs of 20)	2
12 x female headers(packs of 20)	1
14 x female headers(packs of 20)	1
Atmega328P + IC PCB holder	1
Atmega8A + IC PCB holder	1