

## احتياجات مختبر الانظمة المضمنة

#	Component Name	Quantity	Description	Price (JD)
1	resister 330Ω	200	1/4W	
2	resister 220Ω	200	1/4W	
3	resister 1kΩ	200	1/4W	
4	LED	100	Red 5 mm	
5	LED	100	Green 5 mm	
6	LED	100	Blue 5 mm	
7	Buzzer	50	5V Magnetic Buzzer	
8	Buzzer	50	5v Passive Buzzer Module	
9	Breadboard	50	Breadboard mini 400 tie-point	
10	Wires	500	Female to Male 20cm	
11	Wires	500	Male to Male 20cm	
12	Wires	500	Female to Female 20cm	
13	Push Button Switch	100	Push Button Switch Momentary 12*12*7.3MM	
14	Light Dependent Resistor (LDR)	50	5MM Photoresistor 5528 Light Dependent Resistor	
15	Passive infrared sensor (PIR)	50	PIR motion sensor HC-SR501	
16	Ultrasonic Distance Sensor	25	Ultrasonic Sensor HC-SR04	
17	Temperature and humidity sensor	25	DHT11 Digital Temperature and Humidity Sensor Module	
18	LCD	25	LCD 16x2 (Blue Screen)	
19	I2C	25	Serial I2C to LCD	
20	Potentiometer	50	5K ohm Linear Taper Rotary Potentiometer resistor	
21	Relay	25	1 Channel Relay Module with light coupling 5V OPTO COUPLERED	
22	Bluetooth Module	25	HC-06 Wireless Bluetooth Module TTL	
23	Servo motor	25	Mini Servo Motor SG90	

			9g Servo 180 Degree	
24	Stepper Motor	25	Stepper Motor With Drive Board ULN2003	
25	DC Motor	25	DC Motor Standard 130 toy motor	
26	Motor controller	25	L293D H Bridge DC motor controller	
27	Motor Driver	25	Dual H-Bridge DC & Stepper Motor Driver L298N	
28	NodeMcu	50	ESP8266 Wifi NodeMcu V3 (CH340)	
29	NodeMcu shield	50	NodeMcu shield Base on ESP8266	
30	Arduino Uno	50	Arduino Uno - R3 (original chip)	
31	Arduino Mega	50	Arduino Mega 2560 with CH340 Chip	
32	ESP32	50	ESP32 dev Kit v1 WIFI Bluetooth Networking Development Board	
33	Heat Shrink	5	Heat Shrink Tubing Insulation Shrinkable Tube Assortment Electronic Kit 530pcs Colorful Set	
34	ADAPTER 9V	25	ADAPTER 9V 2A POWER SUPPLY AC/DC for Arduino	
35	Robot	25	2WD Smart Motor Robot Car	
36	Spacer Kit	4	300Pcs M3 Hex Brass Standoff Spacer Kit	