



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

Ingwe TVET College



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Ext 110

ERRATUM

Kindly be informed that the College has extended the specification/scope of work for Supply and delivery of electronics and digital concepts for robotics level two (02) in Mount Fletcher Campus – BID NO: INGWE/138/2025.

The closing date has been extended to the 03rd of December 2025.

For any further information please do not hesitate to contact me on 039 940 2142.

Mr. S. Mdunyelwa

Chief Accountant

Date:..... 25/11/2025

Central Office
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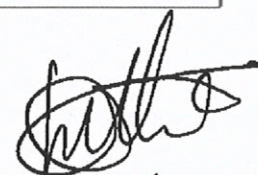
Sitoto Campus
Mhlanga Village
Bizana
Tel: 039 940 2142 ext.400

Maluti Campus
Mli Road
Maluti
Tel: 039 940 2142 ext.500

Mt Fletcher Campus
Hospital Area
Mount Fletcher
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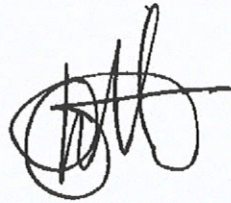
	Material	Description	Value	Quantity
1.	Resistor	0.5 Watt or 1/4Watt, fixed.	430 Ω , 220 Ω , 470 Ω , 1k Ω and 10k Ω	500 each
2.	1 x piezoelectric transducer (buzzer)	Active piezo buzzer tone	85 – 95db, 3 - 24V	100
3.	Transistor	NPN	BC547	100
4.	Battery		1,5V	50
5.	1 x Op-amp	(LM358)		100
6.	Diode	Light emitting diode	Red	100
7.	Diode	Light emitting diode	Green	50
8.	PIR	Passive Infrared Sensor	HC-SR501	50
9.	Battery	6V		50
10.	Mini pushbuttons (or Tactile Buttons)	Single pole-throw buttons	Mini pushbuttons	200
11.	4x High speed Diodes	(1N914 switching diodes)		100
12.	Side cutters	Plier 150mm		50
13.	Wire stripper	1mm – 3,2mm		50
14.	Long nose pliers	200mm length		50
15.	Helping Hands Magnification clamp tool			50
16.	Professional digital Multi-meter	60 solutions		30
17.	Professional digital Ammeter			30
18.	Breadboards (Standard and mini)	800 tie point breadboard (or 2 x 400 tie points breadboards)		60 each
19.	Soldering station and 3 pin plug soldering iron	SIS100		150
20.	9V Battery pack + batteries		9V	200
21.	10 M2M Jumper leads	20 X Male – Male cable connectors 20 X Male - Female		1200 each
22.	Soldering wire	25 - 250251 solder resin-core	500Grams	30 rolls
23.	Potenliometer	13 - 0100 (1Mohm)	10 k Ω , 22 k Ω	50 each
24.	Vero - board		82 X 54 mm	50
25.	Resistors	0.5 Watt or 1/4Watt, fixed.	10K Ω , 330 Ω , 300 Ω , 500 Ω ,	50 each


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			820 Ω , 880 Ω , 2,2 k Ω , 4,7 k Ω , 100 k Ω	
26.	Capacitors	Electrolytic	4,7 μ F, 10 μ F, 47 μ F, 100 μ F	50 each
27.	(Quad NOR gate)	1x IC: CD4001		50
28.	(Quad XOR gate)	1x IC: CD4070		50
29.	2x four-position DIP switches			100
30.	1x Pushbutton switch	(normally open)		100 each
31.	Timepiece	Capable of displaying seconds		40
32.	Basic electronics tool kit	1PK-710k		40
33.	IC's	7404/7408/7432		100 each
34.	Astable multivibrator and simple doorbell circuit components using 555 timer			50 each
35.	1 x IR LED	(TSAL6400 5mm)		
36.	1 x Photo transistor	(IR RNI30W 3mm)		100
37.	Inverter	5000w Luxpower Solar Ready Hybrid Inverter Trolley 5.12 Kwh Lithium Battery+Wifi		01

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	Material	Quality	Quantity	Month
1.	Screwdriver (Flat and Phillips)	808-315A	40	
2.	Integrated circuits	74HC32	40	
3.	Transistors	2N3053	20	
4.	Light emitting diode (red, green and yellow)	5mmL.E.D	100 each	
5.	Utility knife	-	40	
6.	Soldering wire	25 - 250251 solder resin-core	6X500Grams	
7.	Basic electronics tool kit	1PK-710k	10	
8.	Digital and Analogue multi-meter	M92A	40 each	
9.	3 pin soldering iron and stand	-	40	
10.	6AWG battery cables set, High quality silicone cover, 12in/30cm tinned copper.	High quality silicone cover, 12in/30cm tinned copper.	08	
11.	3 Way Adaptor With USB Charger		40	
12.	Forward and Reverse Panel		01	
13.	Side cutters		40	
14.	Long nose pliers		40	
15.	10 M2M Jumper leads	Male - Male Male - Female	10	
16.	12V100AH/20HR Case/Unit			
17.	Ryobi PD-852VR 850W Impact Drill (with drill bits)	Multicolor, 13 mm	04	
18.	Bosch Professional GWS 180-LI 700W Cordless Angle Grinder (with saw blades)		04	
19.	Silicon wire 10 mm ²	Red and Black 1,2 meters		
20.	Silicon wire 10mm	3 terminal wire		
21.	PLC panel	Siemens	01	



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