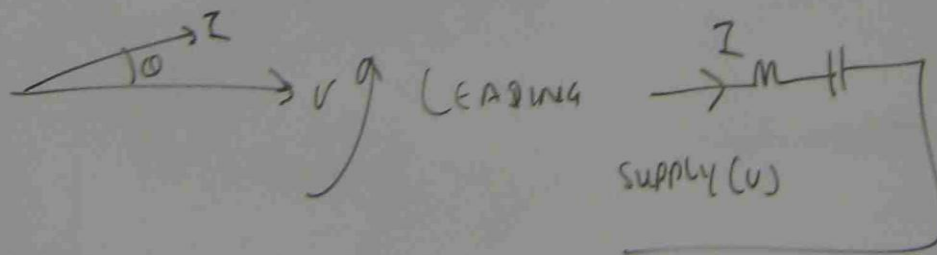
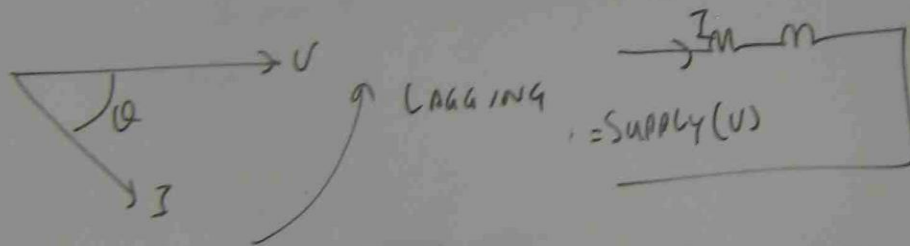


PRACTICAL POWER & POWER FACTOR MEASUREMENT

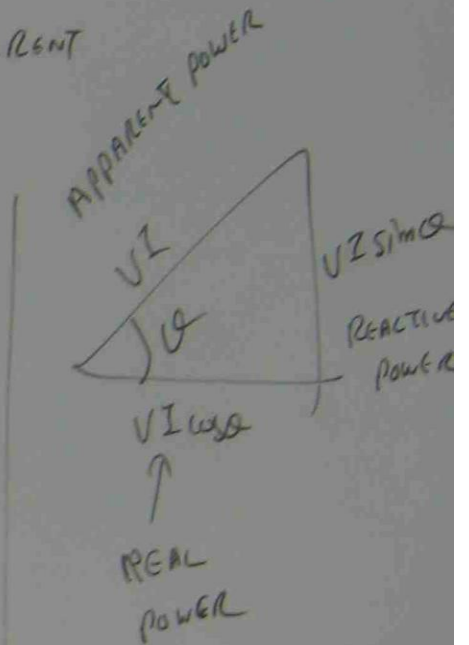
1 ϕ power $P = V I \cos \phi$

$P = \text{POWER} = \text{WATT}$, $V = \text{VOLTAGE (V)}$ $I = \text{CURRENT}$

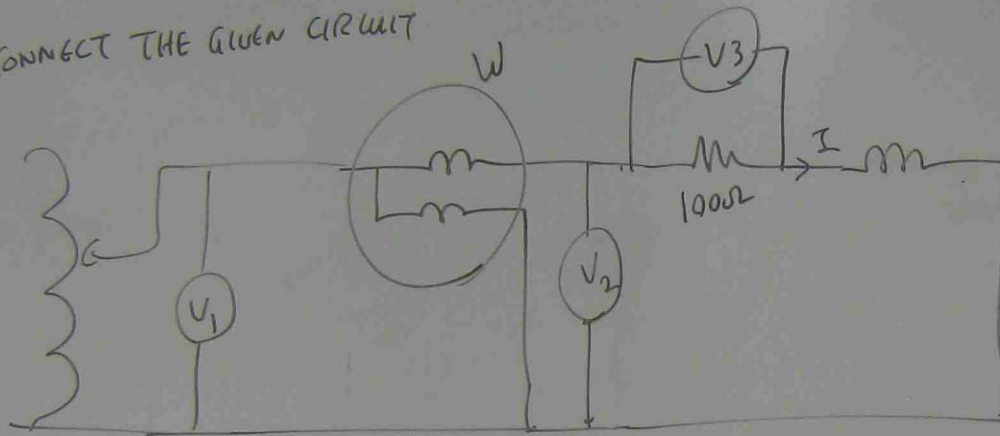
$\cos \phi = \text{POWER FACTOR}$



3 ϕ power = $\sqrt{3} V I \cos \phi$



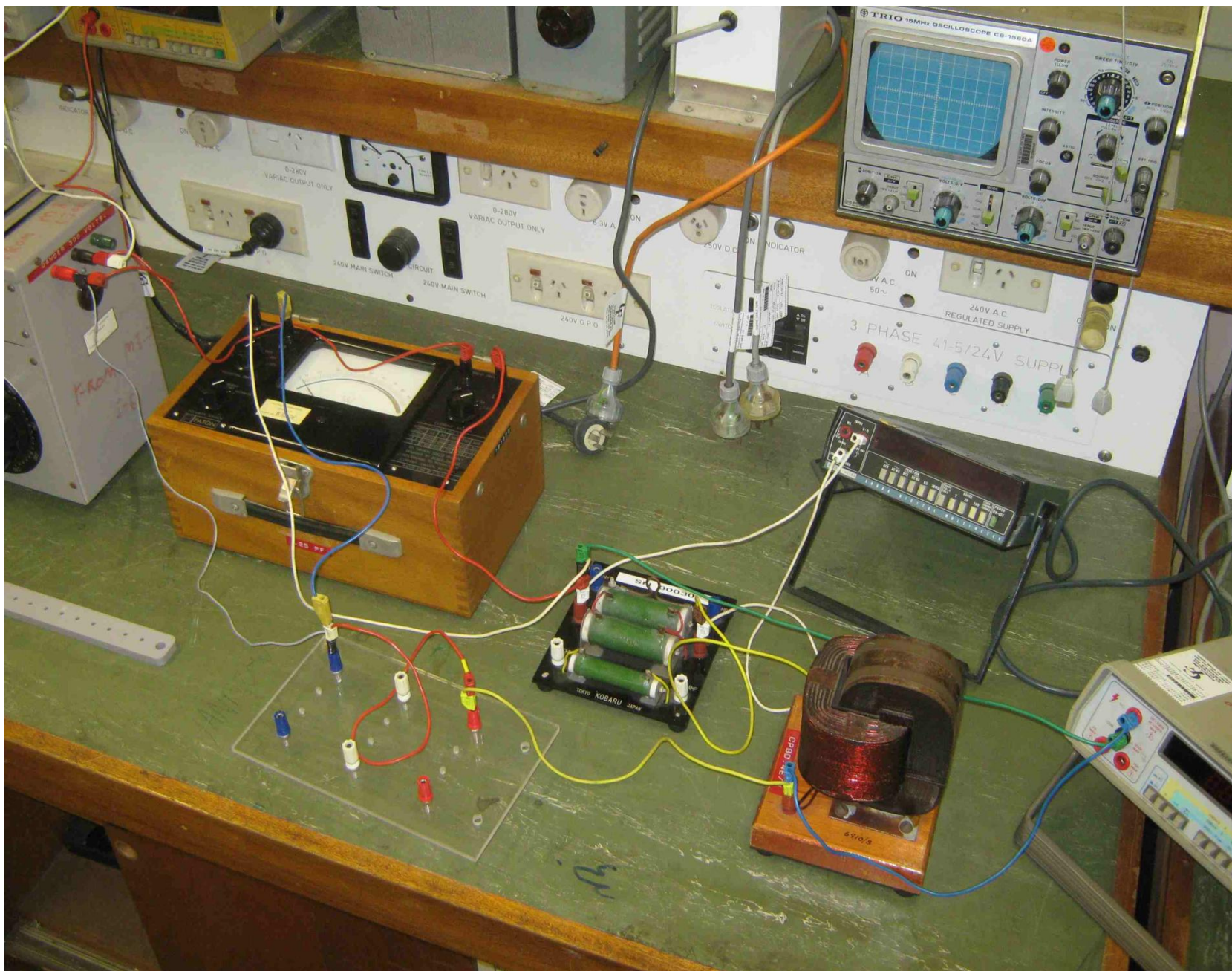
CONNECT THE GIVEN CIRCUIT

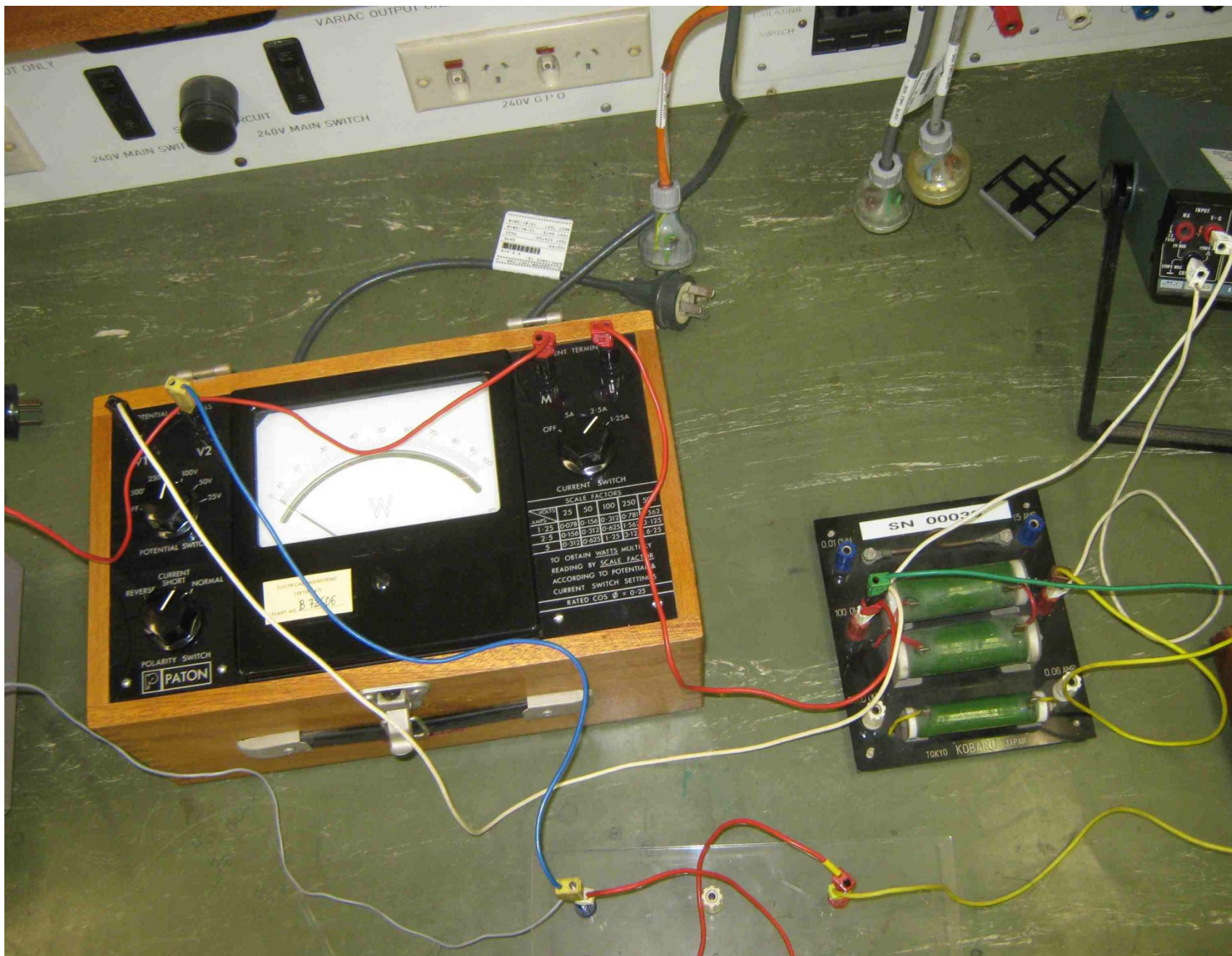


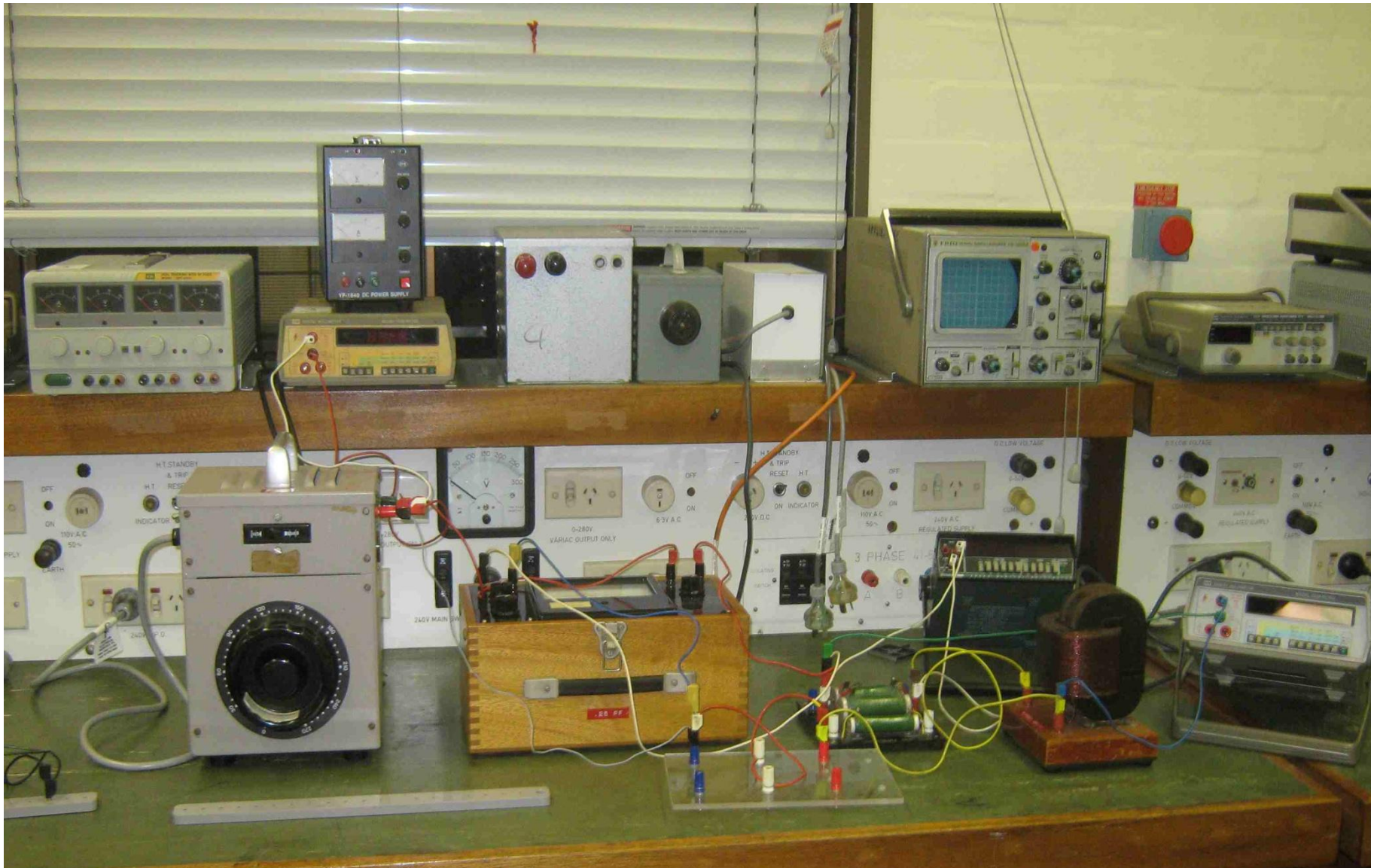
TAKE READING OF V_1, V_2, V_3

CALCULATE POWER FACTOR

SUPPLY VOLTAGE V_1	V_2	V_3	$I = \frac{V_3}{100\Omega}$	W	$V_3 \times I = VA$	$PF = \frac{W}{V_3 I}$
10V						
20V						
30V						







Cupboard No. 5

Top Shelf	• Voltmeter - Moving Iron - Range: 50, 100, 250 and 500 Volts (A.C.)	12 ohm
-----------	--	--------

