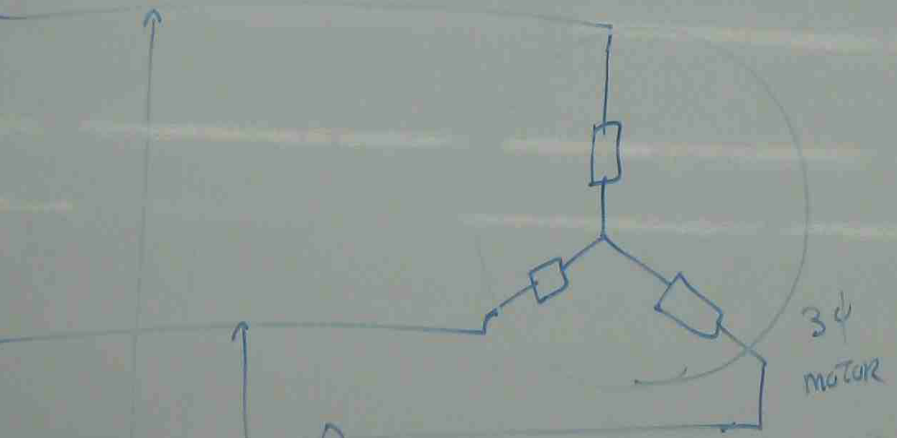
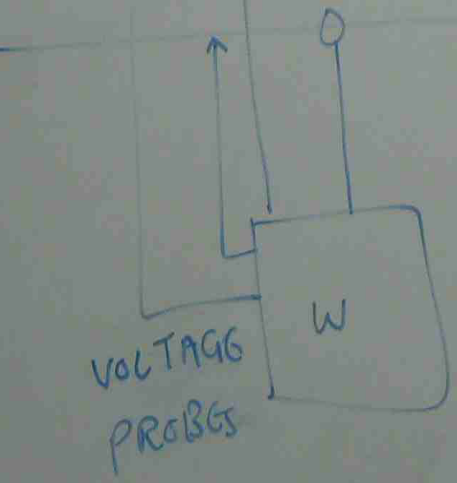
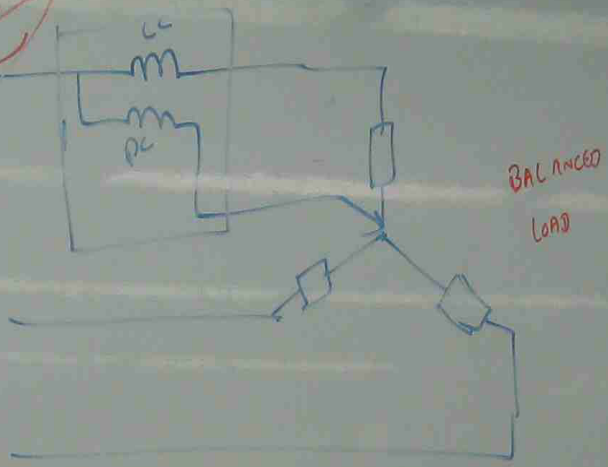
3φ POWER MEASUREMENT





3φ WATT METER

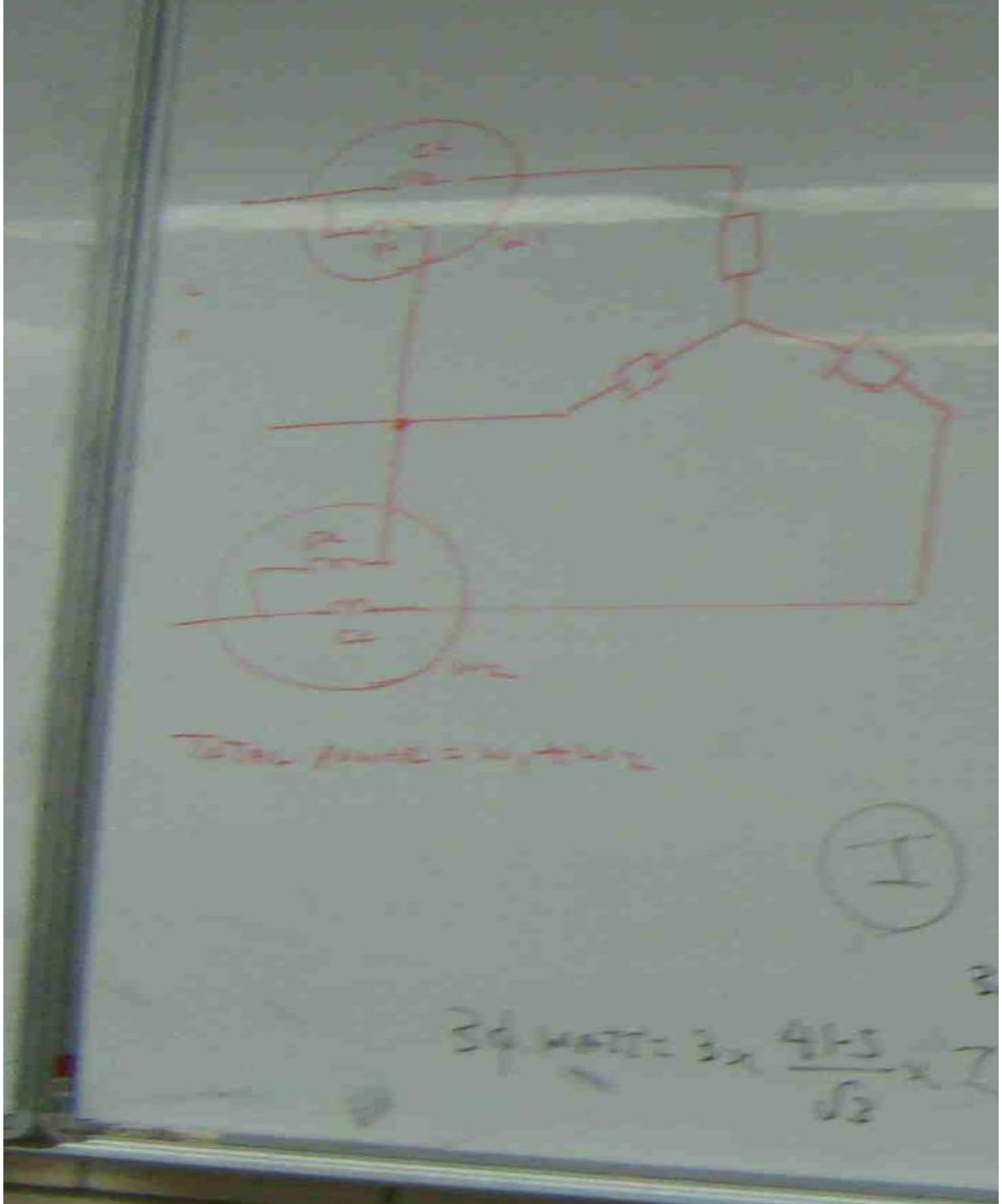
II



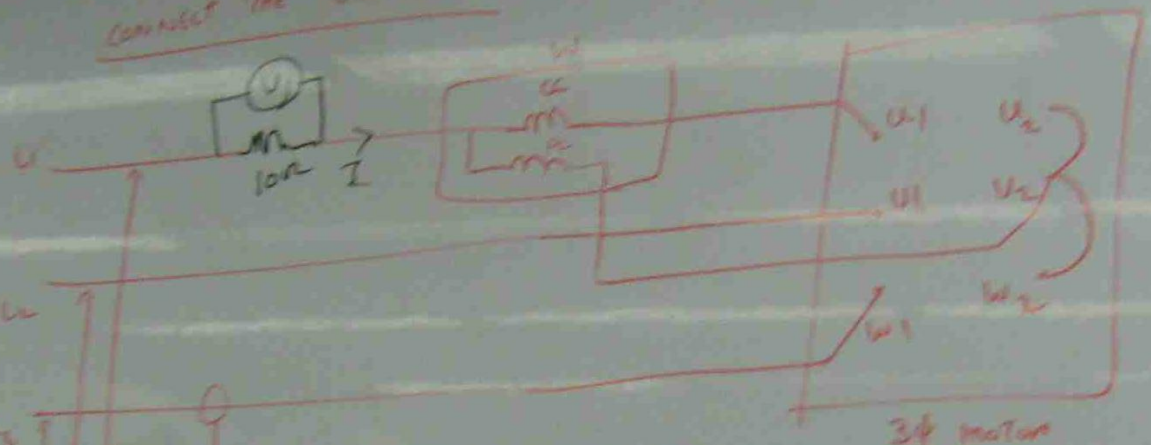
3φ POWER = 3 X WATT METER READING

FOR 1φ

III TWO WATTS METER METHOD FOR 3φ UNBALANCED LOAD



CONNECT THE CIRCUIT



II) TAKE VOLTAGE, CURRENT & P.F READING OF POWER ANALYZER

$W = U \times I \times PF$

TAKE ANALOG WATT METER READING, CONSIDER SCALE FACTOR

III) Ex IF 150V I = 5A SETTING

5A

150V ⟶ SCALE FACTOR

$I = \frac{V_1}{10\Omega}$ Amp

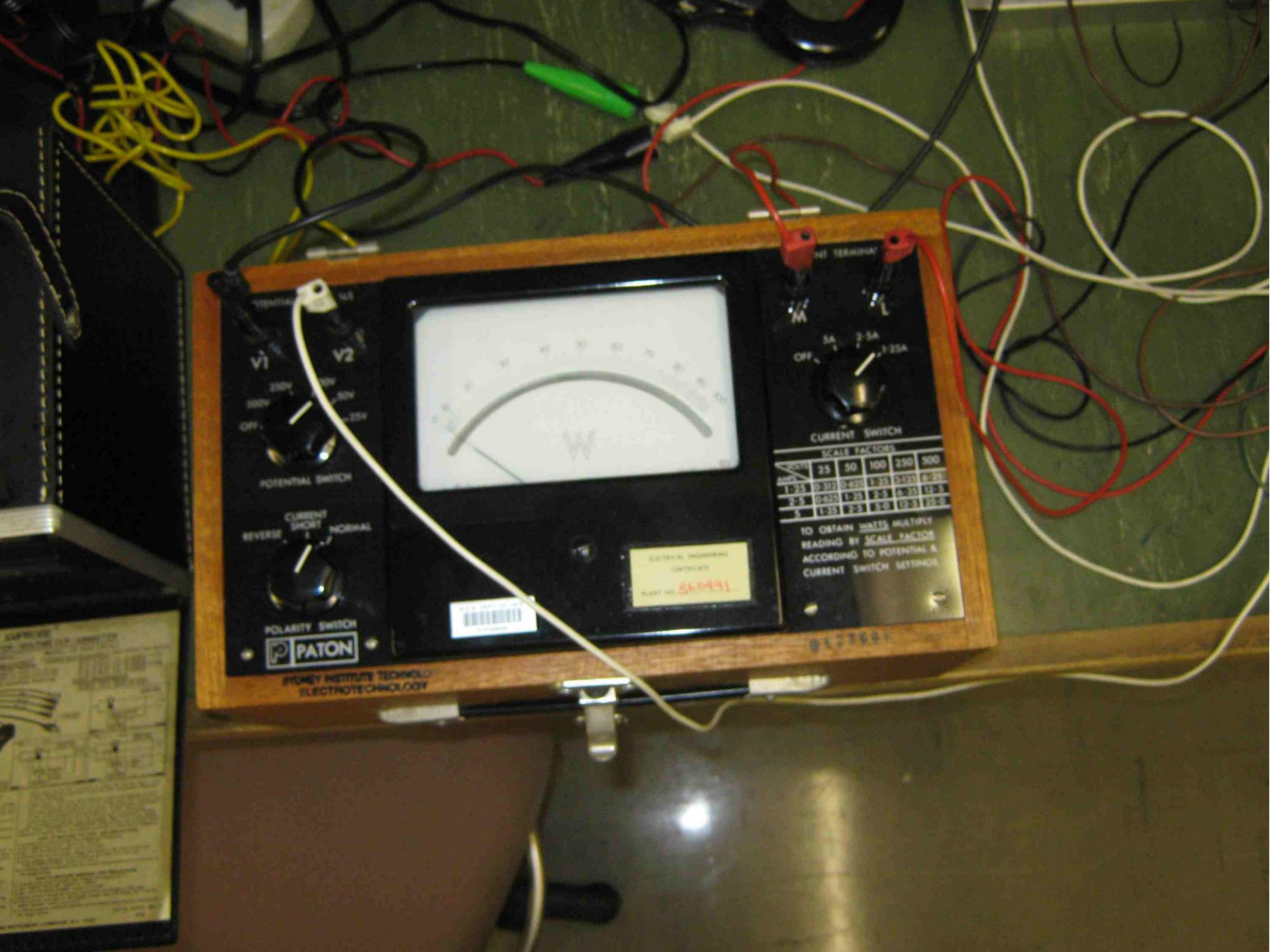
3ϕ POWER = $\sqrt{3}$ VI

× I (APPROXIMATE)

ACTUAL WATT = READING × SCALE FACTOR

3ϕ motor WATT = 3 × ACTUAL WATT


Customer Service
Centre
TAFE
AMPROBE
MODEL PF1030
000
1.0 PF


V1
V2
OFF
POTENTIAL SWITCH
CURRENT
REVERSE
SHORT
NORMAL
POLARITY SWITCH
PATON
M
L
OFF
5A
2·5A
1·25A
CURRENT SWITCH
SCALE FACTORS
25
50
100
250
500
TO OBTAIN WATTS MULTIPLY
READING BY SCALE FACTOR
ACCORDING TO POTENTIAL &
CURRENT SWITCH SETTINGS
ELECTROTECHNOLOGY

R4
R1
IRN
10R K
F41
F41
N.S.W. DEPT. OF TAFE
0127575AN