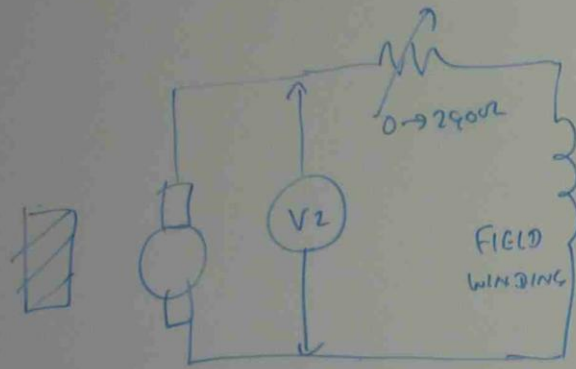
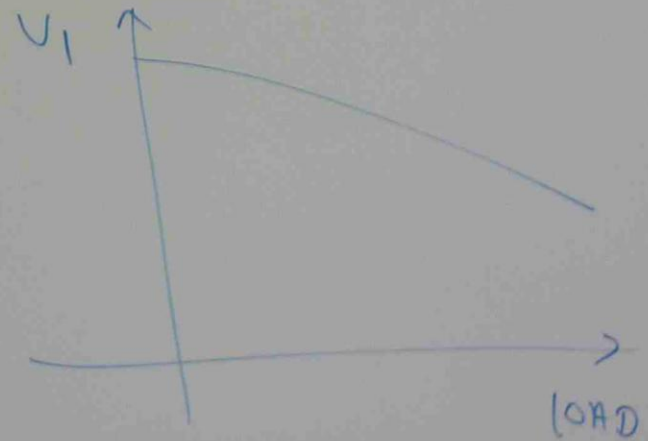
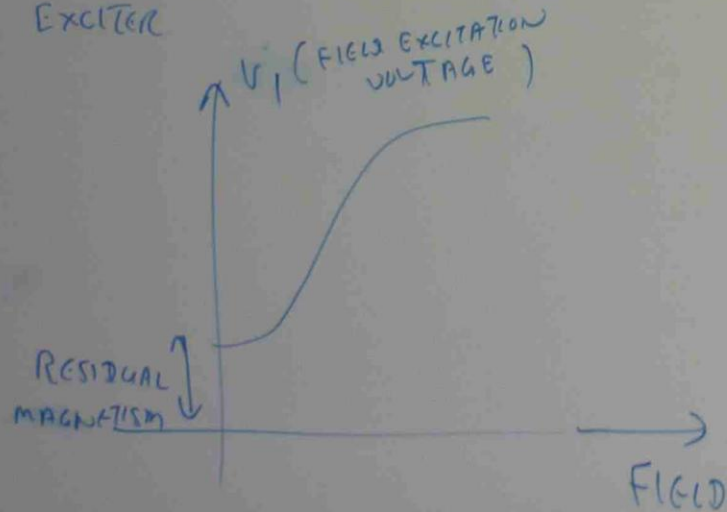
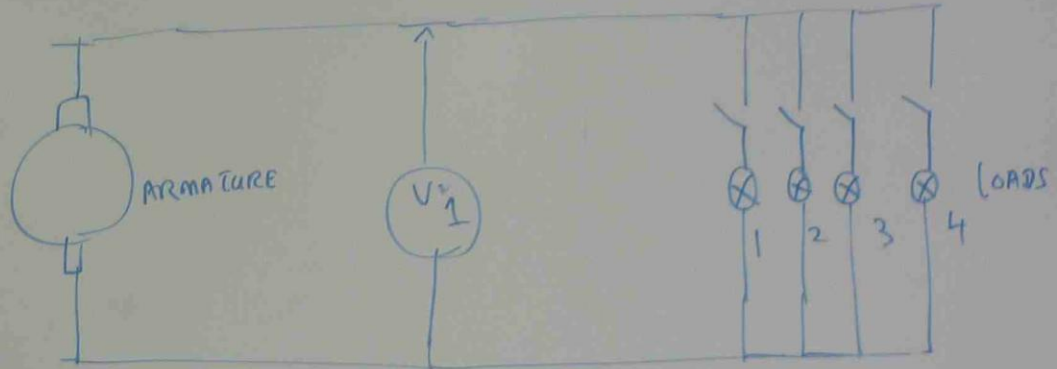


# DC GENERATOR CHARACTERISTICS TEST



EXCITER

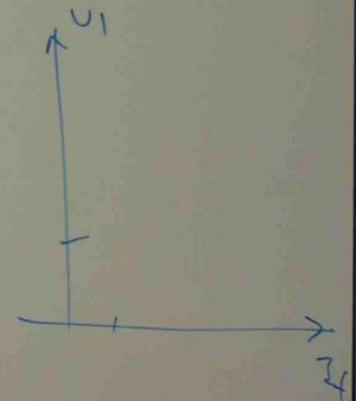


- ① CONNECT THE GIVEN CIRCUIT
- ② OFF THE FIELD EXCITATION SWITCH
- ③ NOTE THE TERMINAL VOLTAGE PRODUCED BY RESIDUAL MAGNETISM
- ④ ON THE FIELD EXCITATION SWITCH
- ⑤ REDUCE FIELD RESISTANCE AND NOTE TERMINAL VOLTAGE

FIELD RESISTANCE	$I_f = \frac{V_2}{\text{RESISTANCE}}$	$V_1$
FULL 290 $\Omega$		
$\frac{9}{10} \times 290$		
$\frac{8}{10} \times 290$		
$\frac{7}{10} \times 290$		
$\frac{6}{10} \times 290$		
$\frac{5}{10} \times 290$		
$\frac{4}{10} \times 290$		
$\frac{3}{10} \times 290$		

	$V_1$
$\frac{2}{10} \times 290$	
$\frac{1}{10} \times 290$	

PLOT FIELD CURRENT  
VS TERMINAL  
VOLTAGE

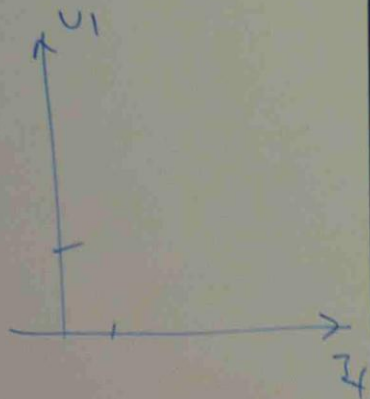


⑥ REDUCE TERMINAL VOLTAGE TO 30V

⑦ INCREASE THE LOADS AND NOTE TERMINAL VOLTAGE, FILL THE TABLE

LOAD LAMP	$V_1$
1	
2	
3	
4	

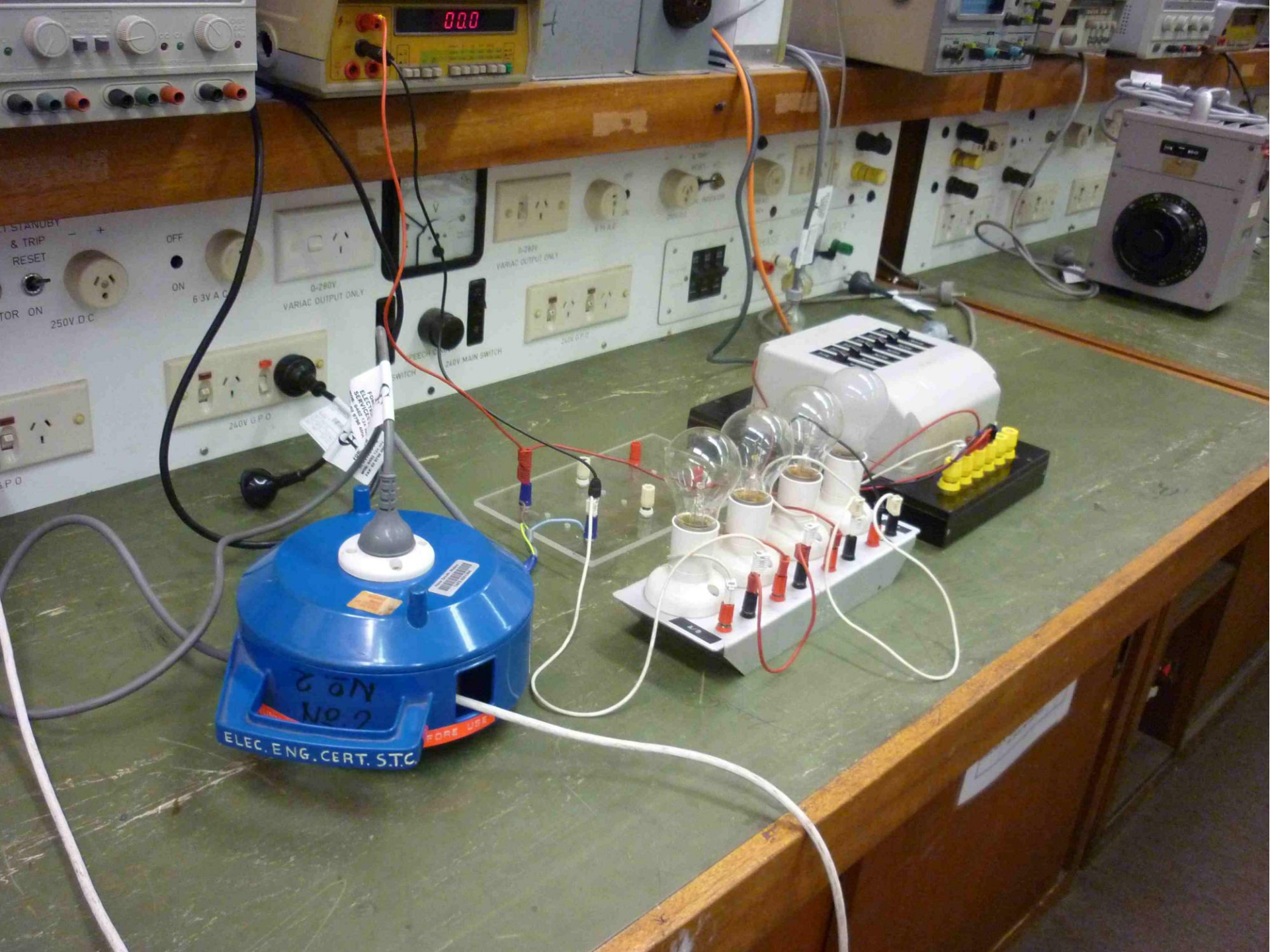
PLOT FIELD CURRENT  
VS TERMINAL  
VOLTAGE



PLOT LOAD VS TERMINAL VOLTAGE



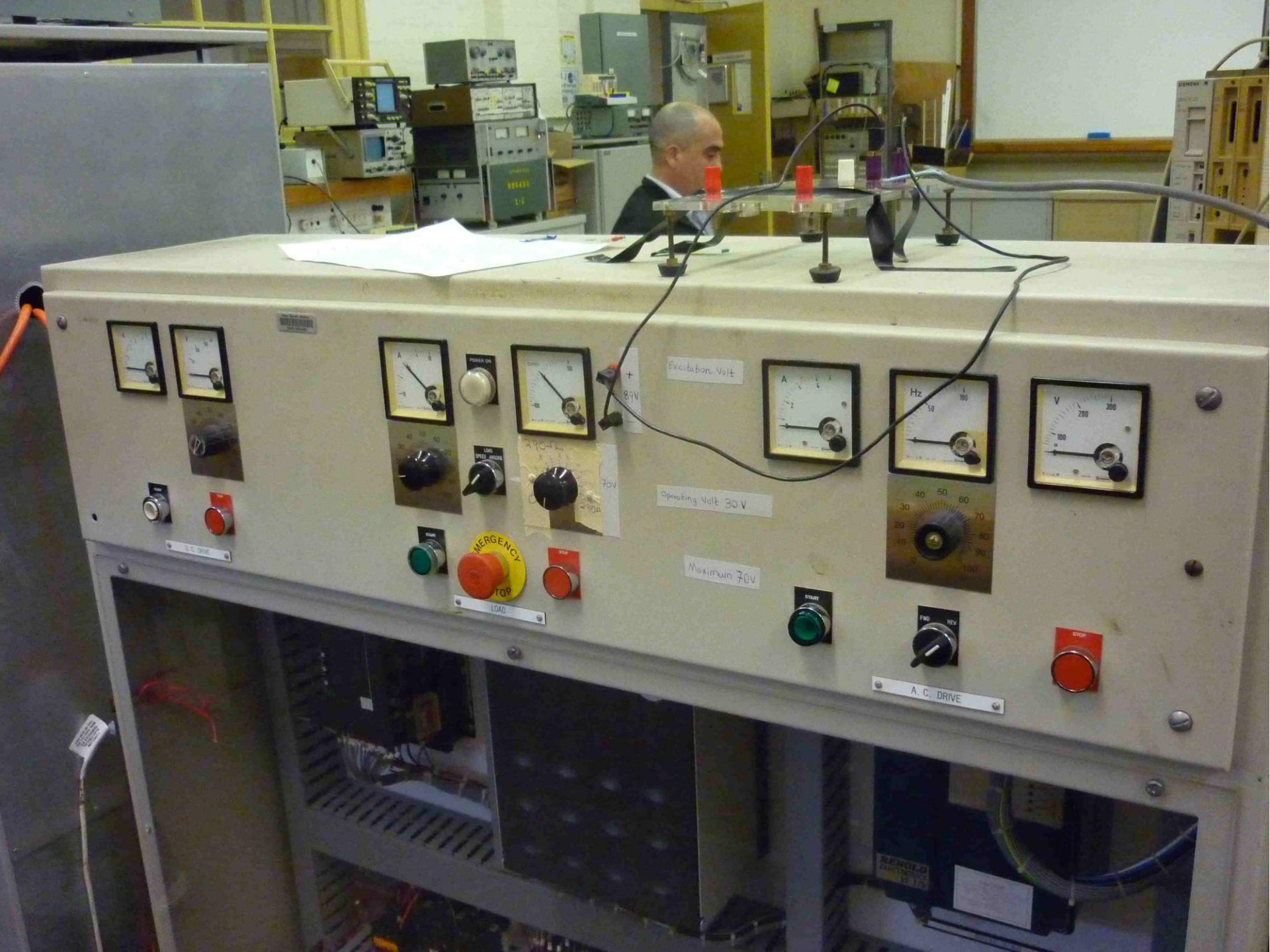




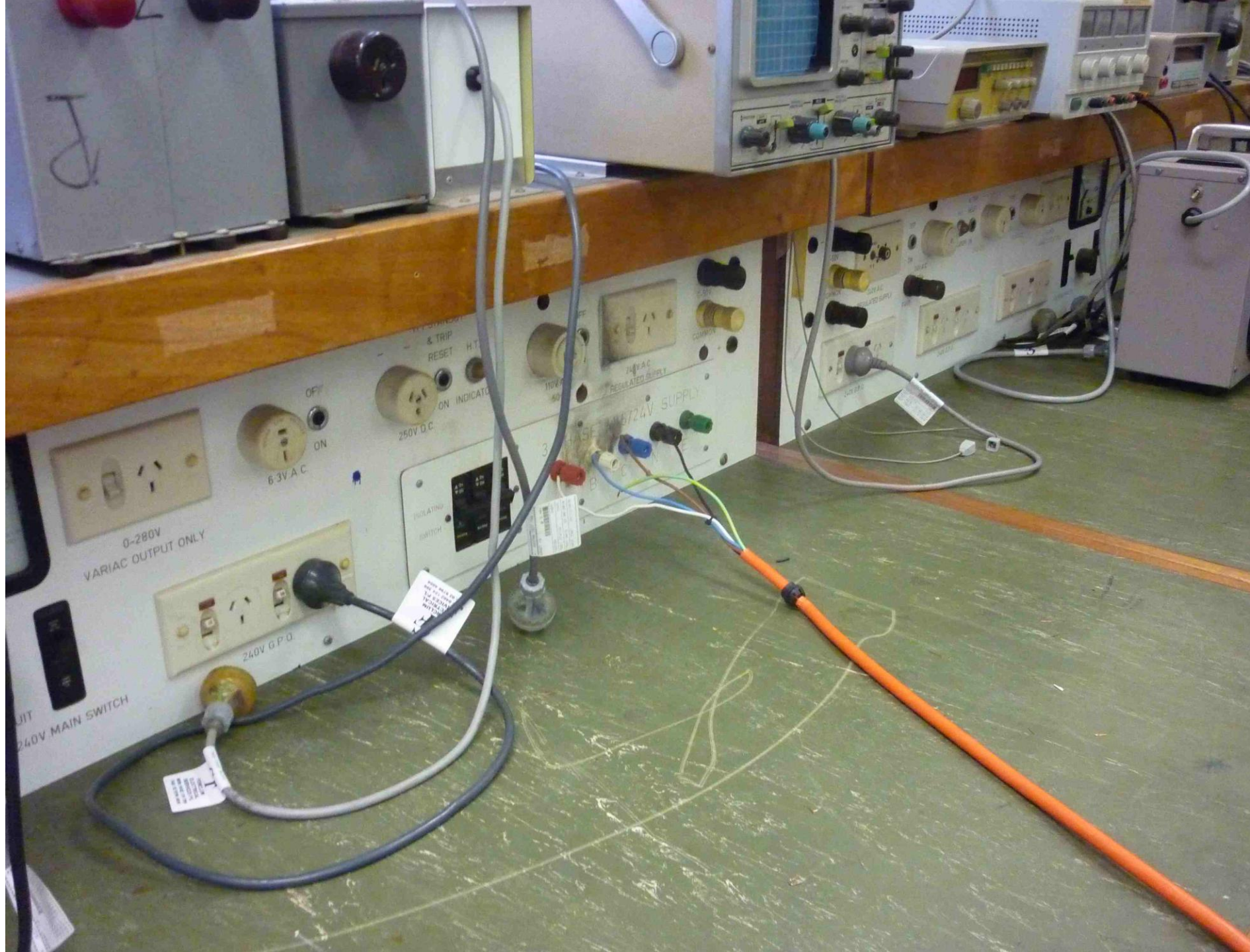
















D. C. DRIVE



LOAD





