

# UEENEEG007 - SELECT AND ARRANGE EQUIPMENTS FOR GENERAL ELECTRICAL INSTALLATION

## BACKGROUND STUDY

ELECTRICAL WIRING & EQUIPMENTS

ELECTRICAL SYSTEM SAFETY

PROTECTION METHODS

ELECTRICAL SAFETY TESTING

ELECTRICAL EQUIPMENTS / MEASUREMENT

ELECTRICAL MACHINES

(GENERATOR / MOTOR / TRANSFORMER)

ELECTRIC MOTOR CONTROL

## ELECTRICAL WIRING RULES STUDY

✓ AS 3000: 2007 WIRING RULES

✓ AS 3008 CABLE SELECTION

MAXIMUM DEMAND

CABLE SELECTION / VOLTAGE DROP

APPLICATION OF WIRING RULES  
IN DOMESTIC & INDUSTRIAL

INSTALLATION

✓ NSW ELECTRICAL SERVICE RULES

## PRACTICAL

MOTOR CONTROL

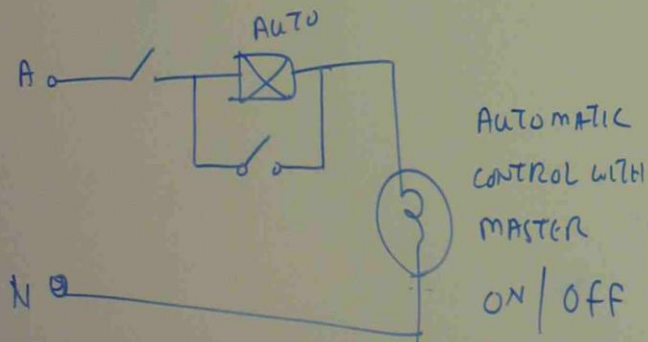
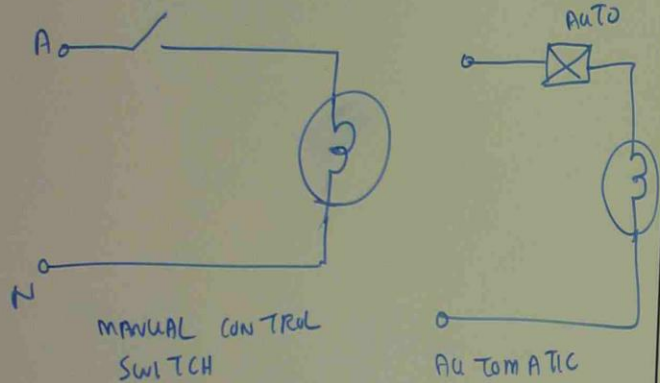
ADVANCED WIRING

THURSDAY

7 → 9 PM

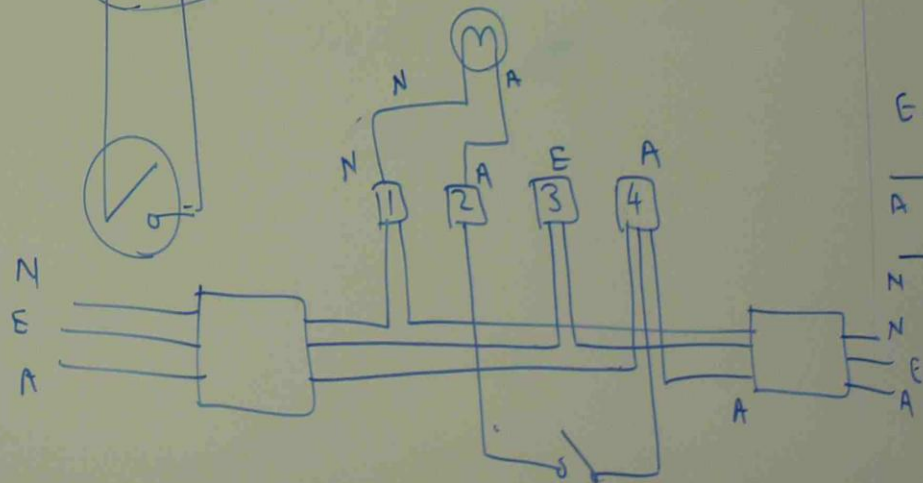
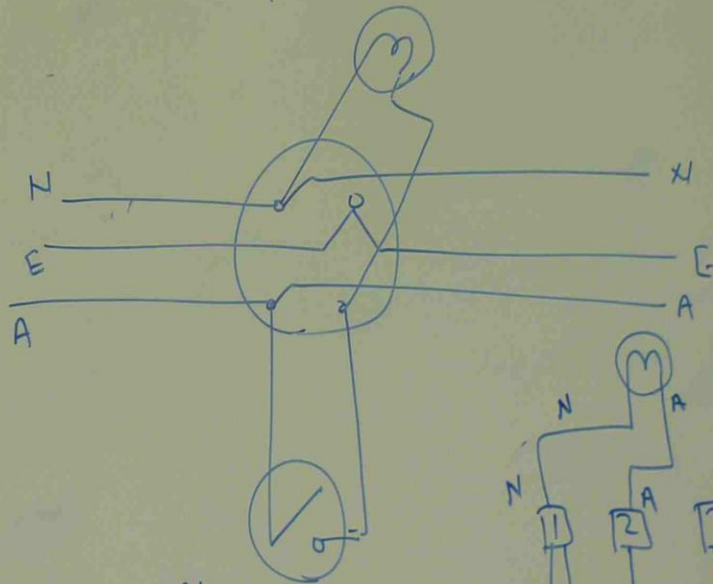
K2.11

## BASIC WIRING CIRCUITS

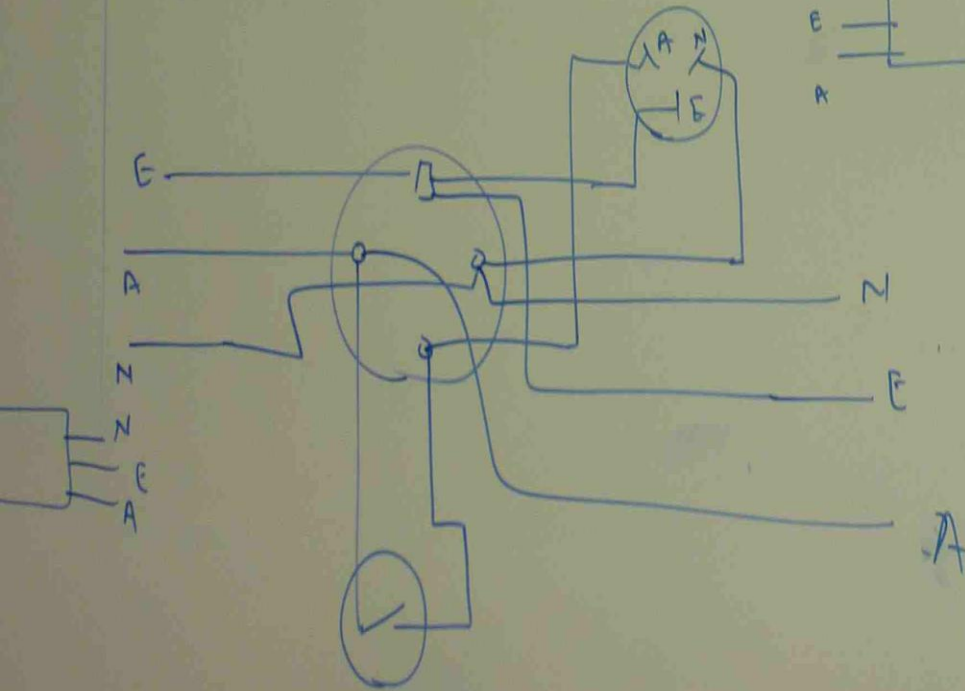
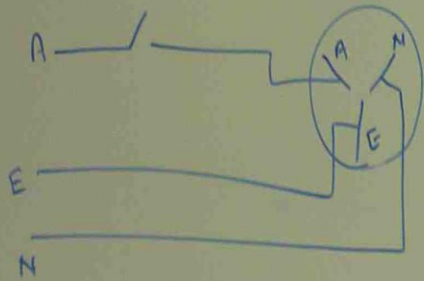


## TIME SWITCHES

ANALOGUE / DIGITAL — TO CONTROL THE LIGHT.



TRd

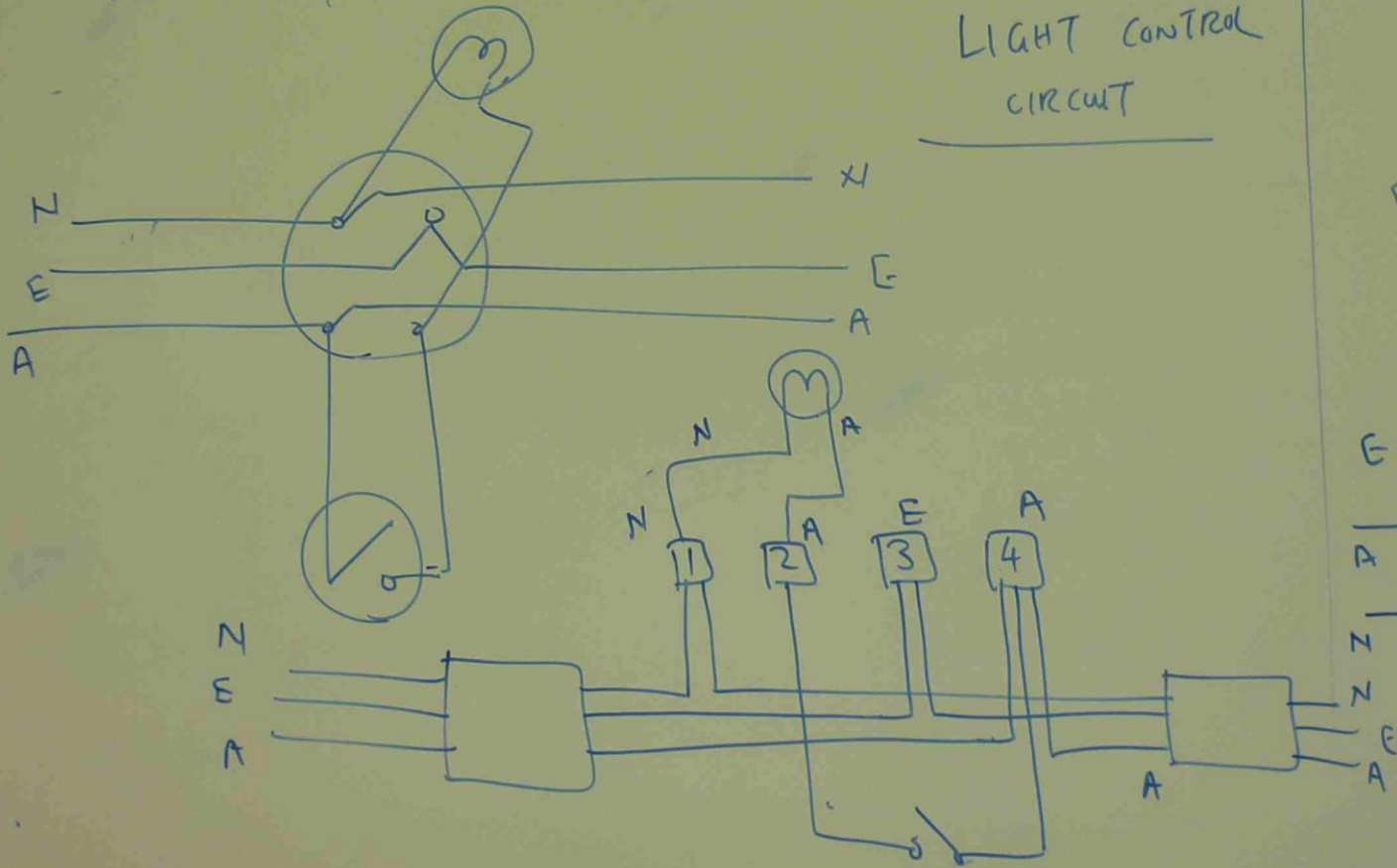




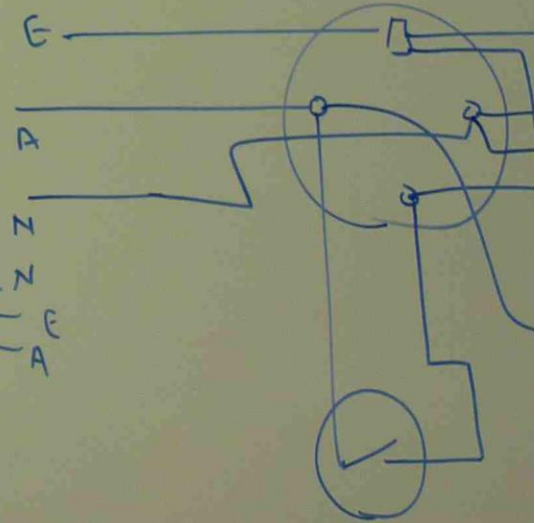
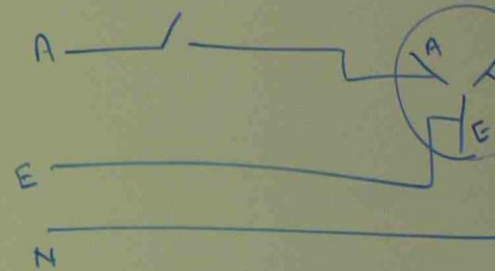
# TIME SWITCHES

ANALOGUE / DIGITAL — TO CONTROL THE LIGHT.

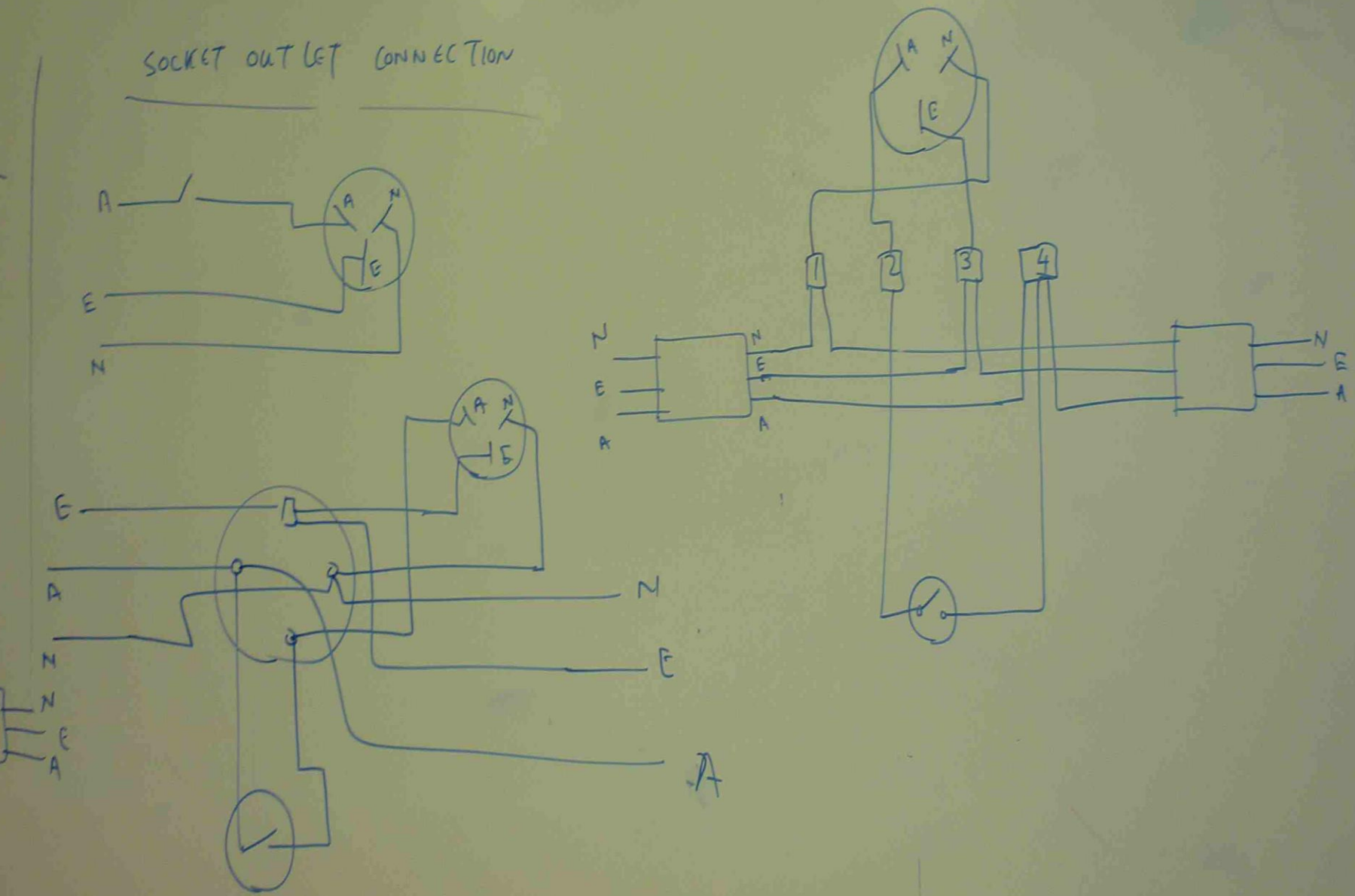
## LIGHT CONTROL CIRCUIT



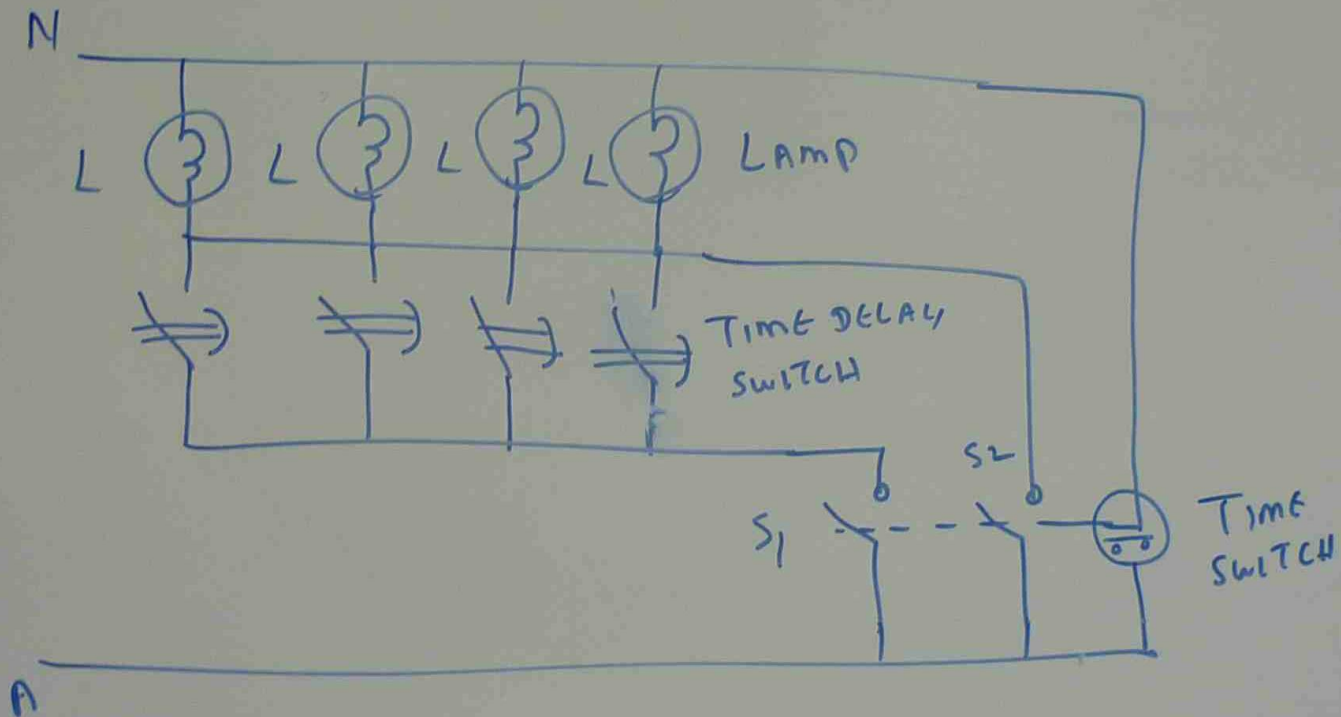
## SOCKET OUTLET



# SOCKET OUTLET CONNECTION



## LIGHT CONTROL BY TIMER

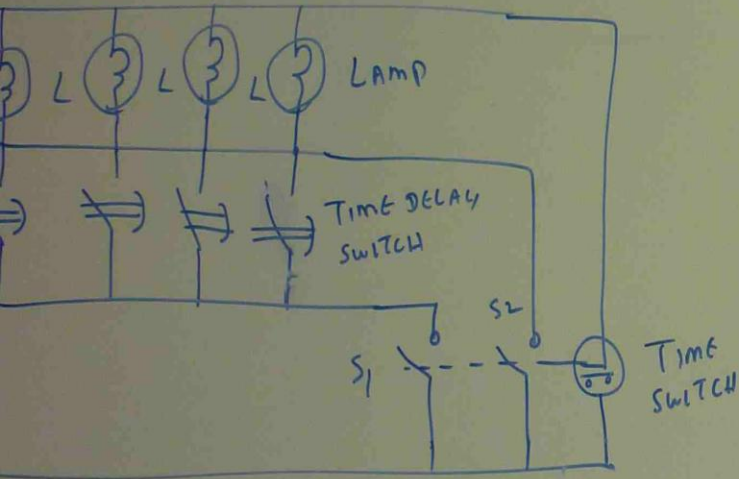


LAMP INCANDESCENT LAMP

DISCHARGE LAMP.

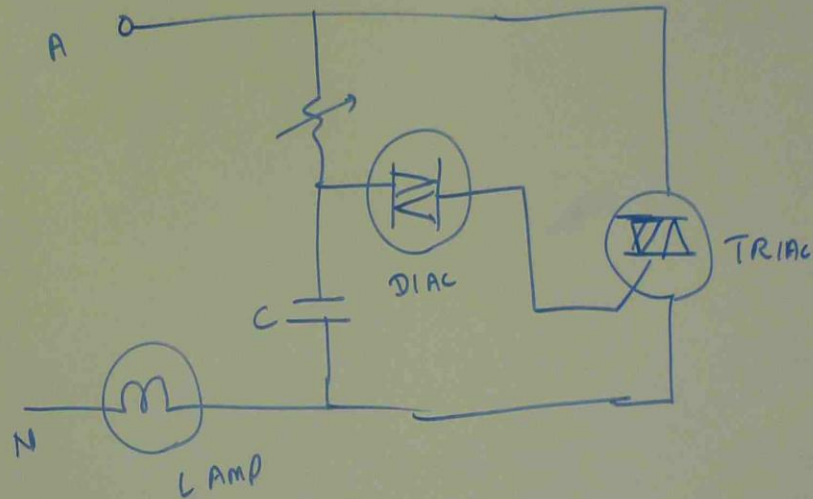


## LIGHT CONTROL BY TIMER



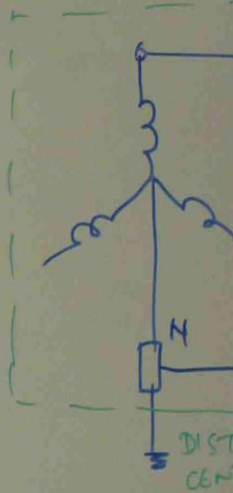
Lamp INCANDESCENT LAMP  
DISCHARGE LAMP.

## LIGHT DIMMERS



A - ACTIVE  
N - NEUTRAL

## TYPICAL



MSS - MAIN SUPPLY SWITCH

F<sub>1</sub>, F<sub>2</sub> - FUSES

KWH - KILOWATT HOUR METER

MS - MAIN SWITCH

CNL - CONSUMER NEUTRAL

LINK

SNL - SUPPLY NEUTRAL

The diagram illustrates a single-phase distribution system. It starts with a 'DISTRIBUTION CENTRE' on the left, which feeds a 'FEEDER' line. The feeder line carries the supply to a 'SERVICE CABLE' area. In this area, the line passes through a 'Supply Switch' and 'Fuses' (labeled 'F1'). It then goes through a 'WATT HOUR METER' (labeled 'KWH') and a 'Consumer Neutral Link' (labeled 'CNL'). The line then splits into 'Consumer Neutral Link' (labeled 'N') and 'Supply Neutral Link' (labeled 'N'). The 'Consumer Neutral Link' leads to a 'Main Switch' (labeled 'MS') and then to 'Appliances such as Electric Range' (labeled 'F2'). The 'Supply Neutral Link' leads to a 'Ground' symbol. The entire system is labeled 'TO CONSUMER' at the top right. The diagram is divided into sections by dashed lines, with 'MSS' (Main Service Switch) and 'FSS' (Feeder Service Switch) labels.

TRIAL

To consumer

To CONSUMERS

TO CONSUMER

F1

KWH

A 1

A<sub>2</sub>

MS

CNL

## APPLIANCE

SUCH AS ELECTRIC RANGE

mss

MSS - MAIN SUPPLY SWITCH

$F_1, F_2$  - fuses

KWH - KILOWATT HOUR METER

MS - MAIN SWITCH

CNL-CONSUMER NEUTRAL  
LINK

SNL - SUPPLY NEUTRAL LINE