

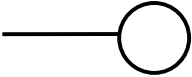
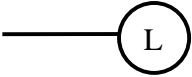
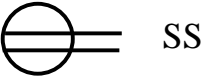
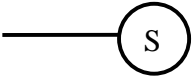

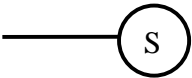
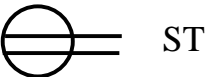
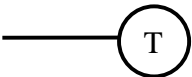

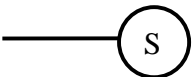
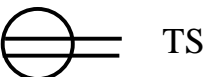
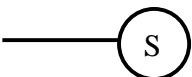
EEE 314

Electrical Services Design



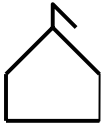
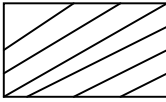

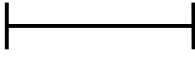
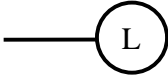
Conduit Layout Lecture 1

**Prepared by: Md. Itrat Bin
Shams (Sanin)**

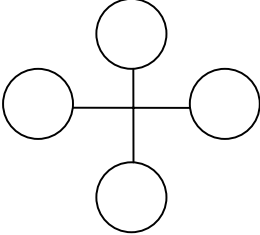

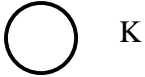
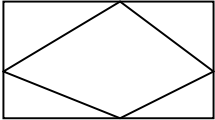
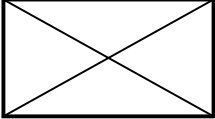

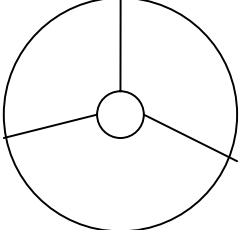

Symbols used in fittings and fixtures and in conduit layout:

Symbol Description	Fittings and Fixture	Conduit Layout
Wall Bracket Light at Lintel Level		
2-Pin 5A Socket at SB Level		
3-Pin 5A/15A Socket at Skirting Level		
2-Pin 5A Socket at Table Height		
3-Pin 5A Socket at Lintel Level		
2-Pin 5A Socket at Skirting Level for TV		


Prepared by: Md. Itrat Bin Shams (Sanin)
Lecturer, EEE, BUET.

2-pin TV Antenna Socket		Same
Push Button		Same
Calling Bell or Buzzer		Same
Switch Board Concealed		Same
20A SP MCB At Skirting Level		Same
Fluorescent Wall Light Fitting		


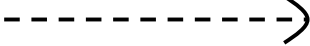


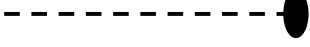
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4-point Chandelier Light Fitting		
Ceiling Light Fitting Type k		Same
Meter Board		Same
Distribution Board		Same
Exhaust Fan		Same
Ceiling Fan		

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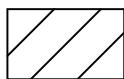
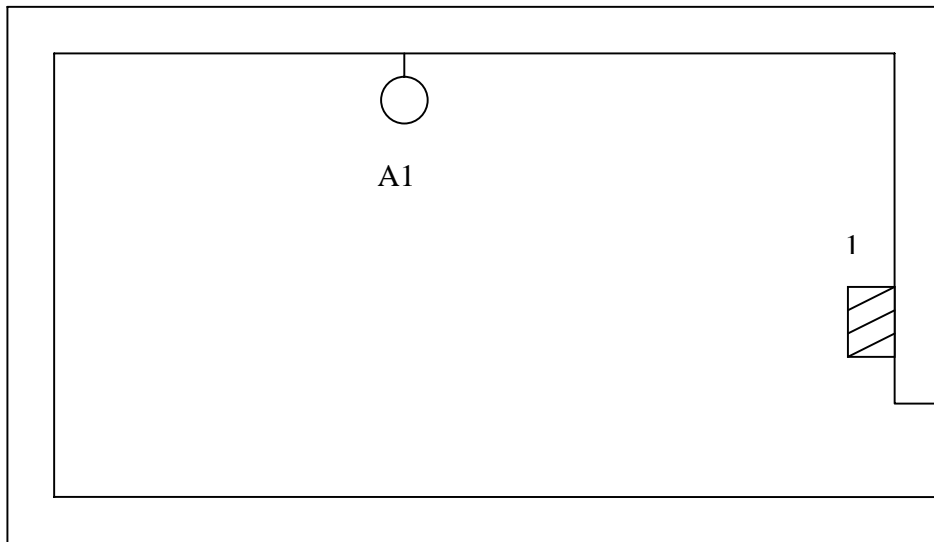
Telephone Grommet		Same
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Some Access Symbols:

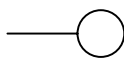
Symbol	Conduit Layout Symbol
Concealed Conduit	
Concealed Conduit Going Down	
PVC Pipe Running through Floor	
Miniature Circuit Breaker	
Conduit Going up	

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Lecturer, EEE, BUET.

Example 1:
Fittings and Fixtures layout:



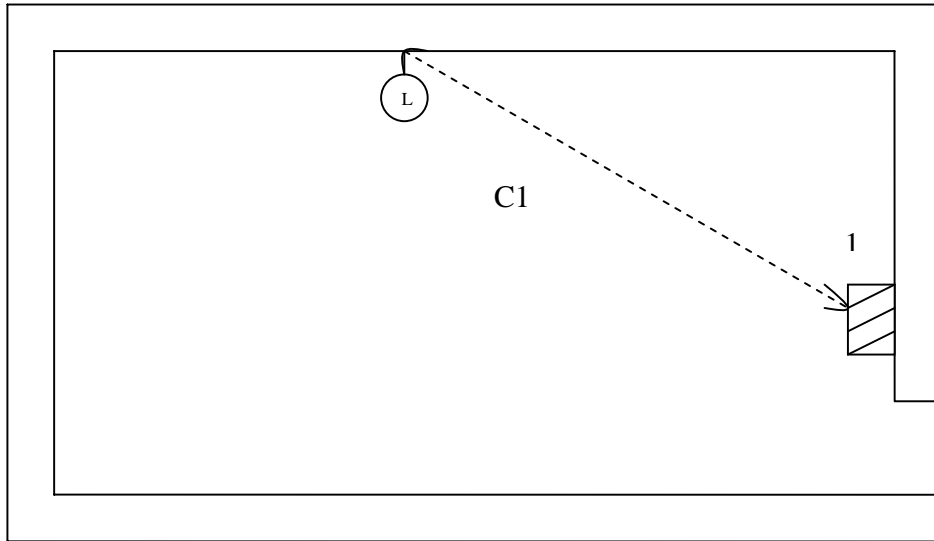
Switch Board Concealed



Wall Bracket Light at Lintel Level

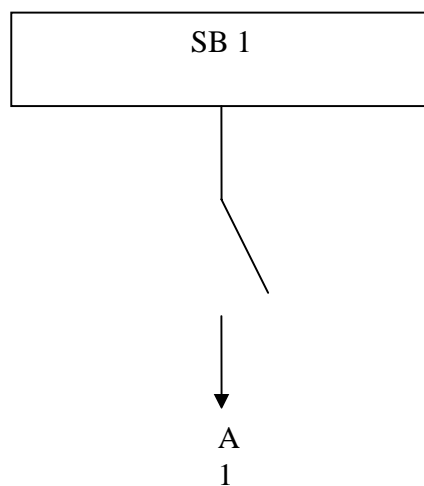
Prepared by: Md. Itrat Bin Shams (Sanin)
Lecturer, EEE, BUET.

Conduit Layout:



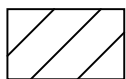
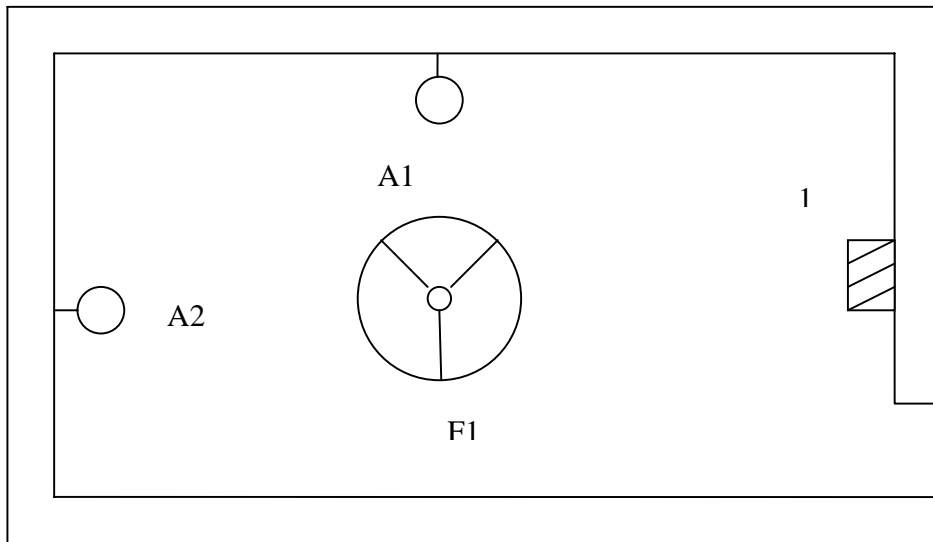
$$C1 = 2 \times 1.5 \text{ mm}^2$$

— (L) Wall Outlet at Lintel Level

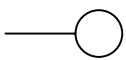


Prepared by: Md. Itrat Bin Shams (Sanin)
Lecturer, EEE, BUET.

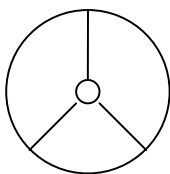
Example 2:
Fittings and Fixture Layout:



Switch Board Concealed



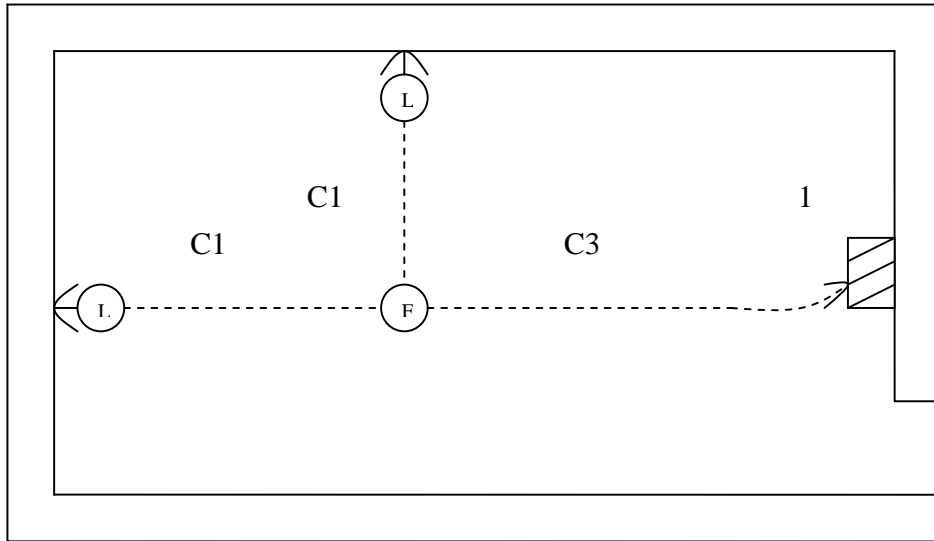
Wall Bracket Light at Lintel Level



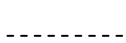
Ceiling Fan

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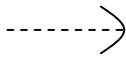
Conduit Layout:



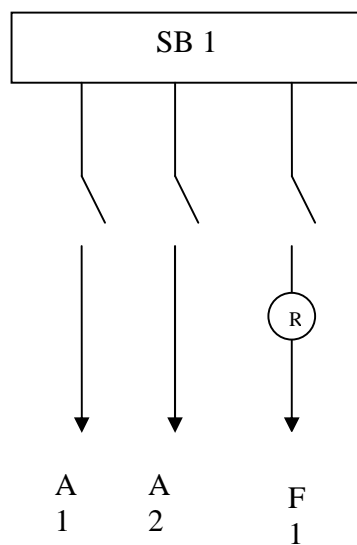
Ceiling Fan Outlet



Concealed Conduit

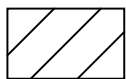
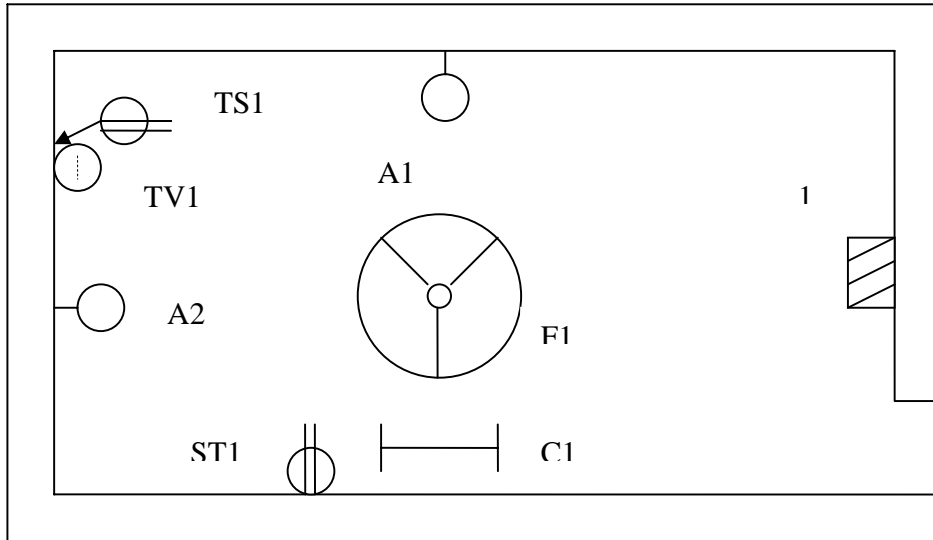


Conduit Going Down

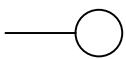


Prepared by: Md. Itrat Bin Shams (Sanin)
Lecturer, EEE, BUET.

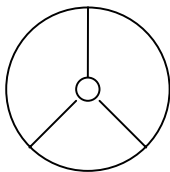
Example 3:
Fittings and Fixture Layout:



Switch Board Concealed



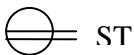
Wall Bracket Light at Lintel Level



Ceiling Fan



Two Pin TV Antenna Socket



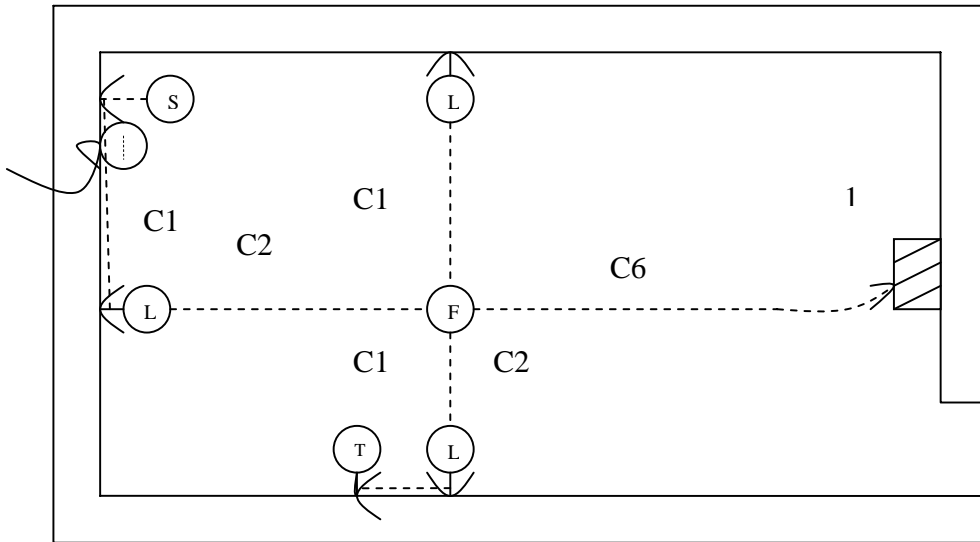
Two Pin 5A Socket at Table Height



Two Pin 5A Socket at Skirting Level for TV

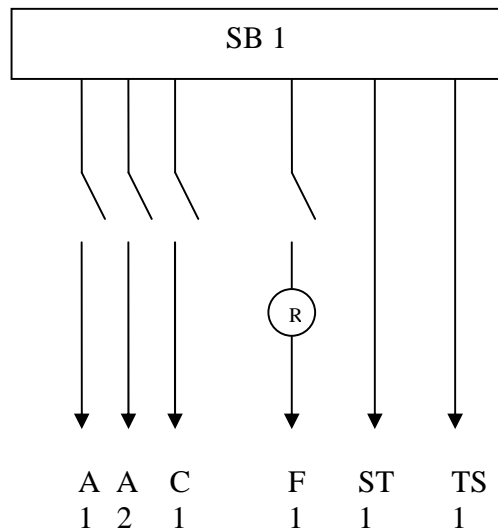
Prepared by: Md. Itrat Bin Shams (Sanin)
 Lecturer, EEE, BUET.

Conduit Layout:



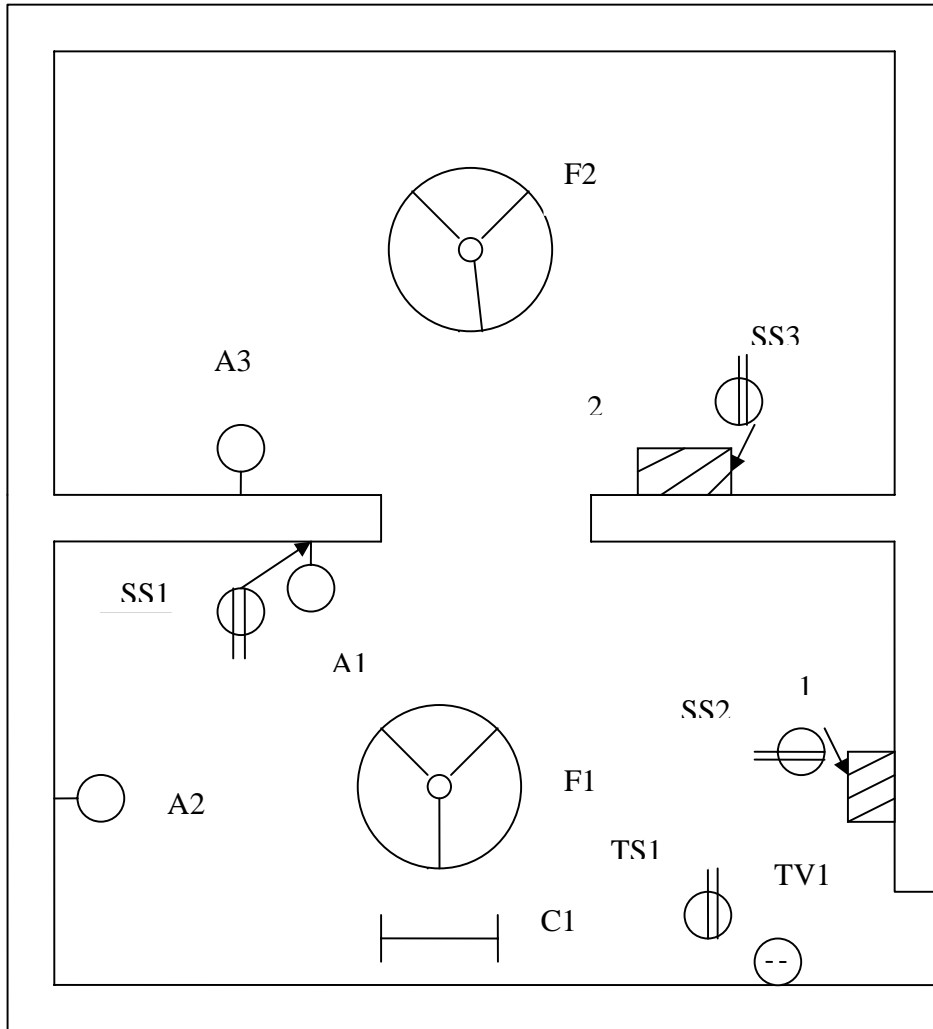
—○(S) Socket Outlet at Skirting Height

—○(T) Socket Outlet at Table Height



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Lecturer, EEE, BUET.

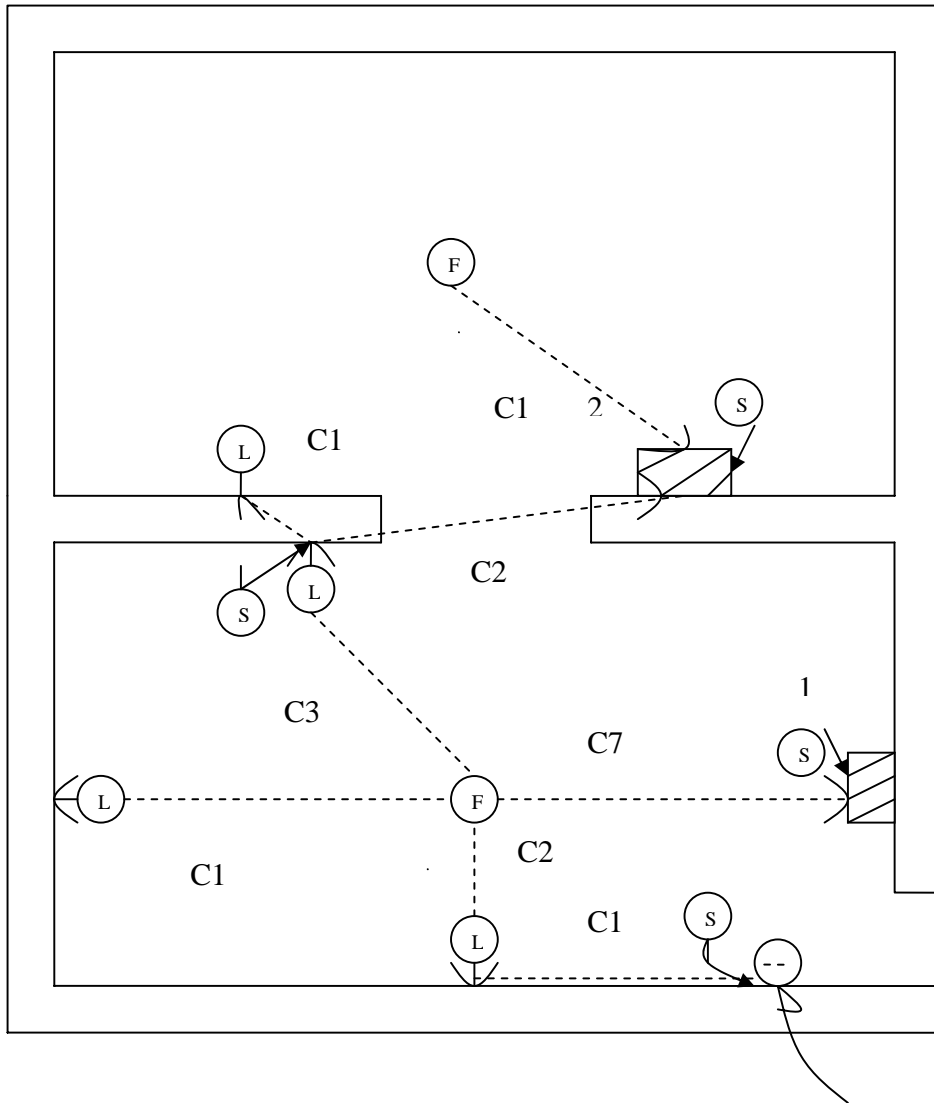
Example 4:
Fittings and Fixture Layout:



 Two Pin 5A Socket at SB Level

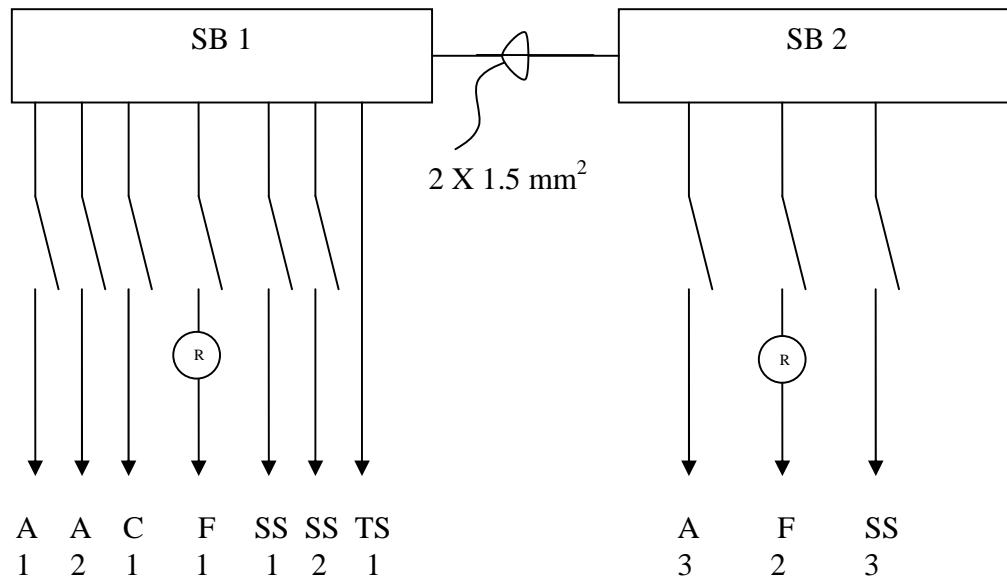
Prepared by: Md. Itrat Bin Shams (Sanin)
Lecturer, EEE, BUET.

Conduit Layout:



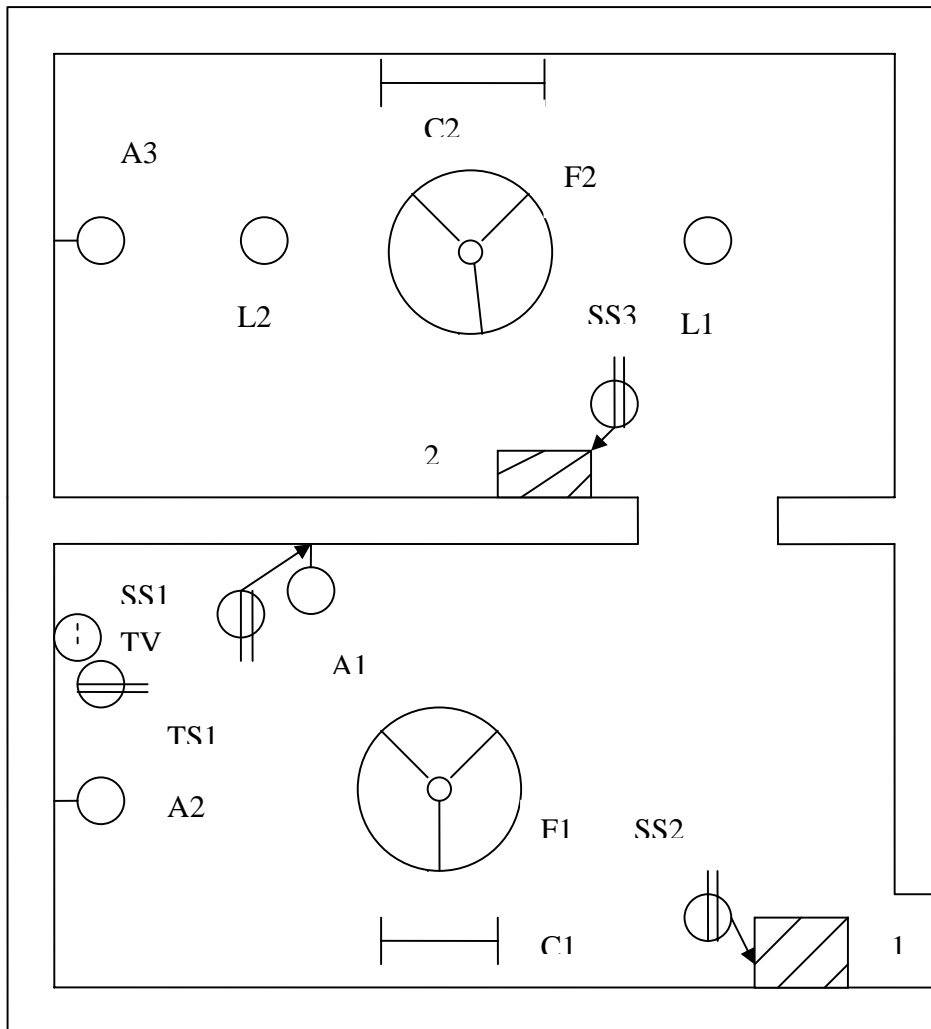
Prepared by: Md. Itrat Bin Shams (Sanin)
Lecturer, EEE, BUET.

Switch-Board Connection Diagram:



Prepared by: Md. Itrat Bin Shams (Sanin)
Lecturer, EEE, BUET.

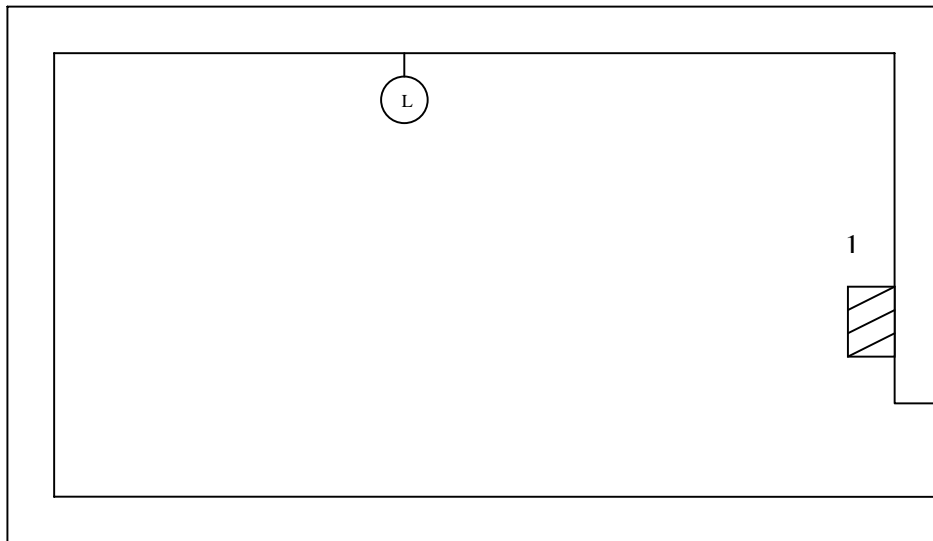
Assignment:



Prepared by: Md. Itrat Bin Shams (Sanin)
Lecturer, EEE, BUET.

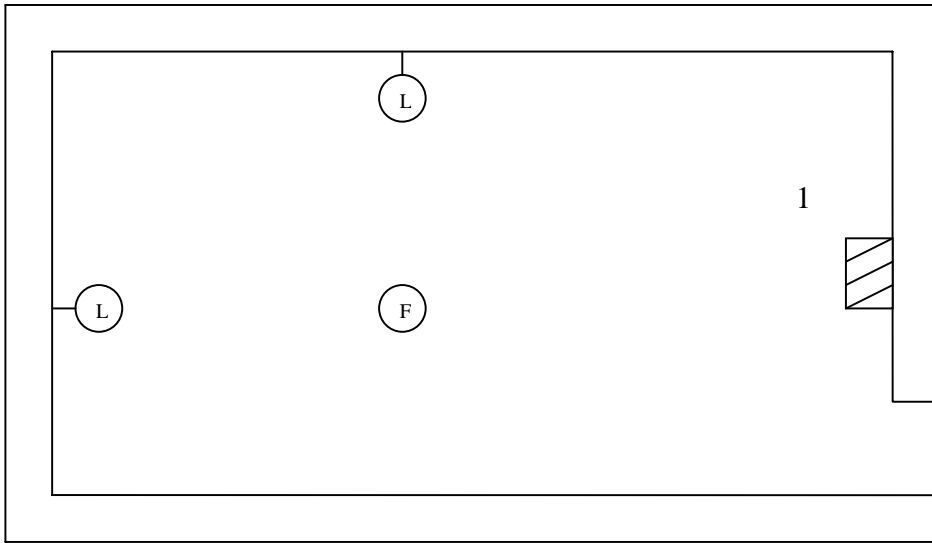
Practice Section:

Draw Conduit Diagram for Example 1:

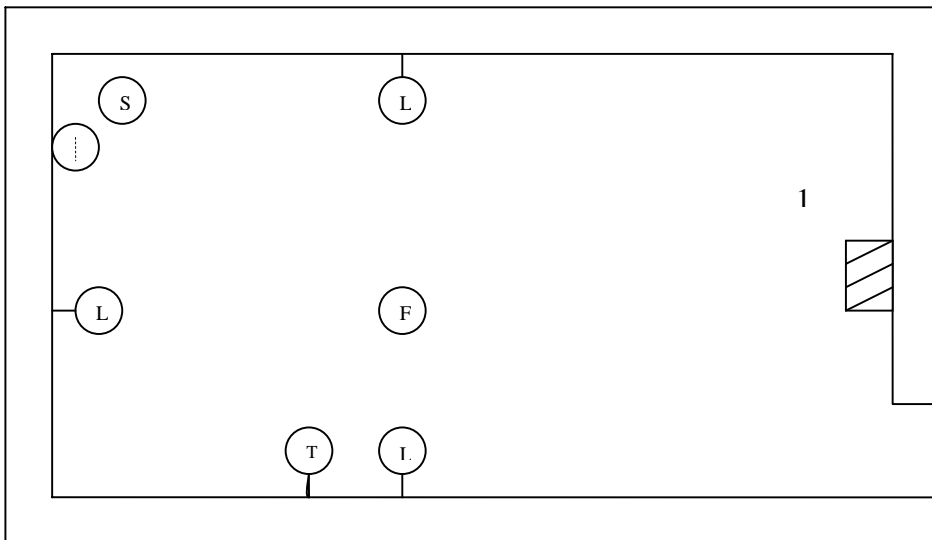


Draw Conduit Diagram for Example 2:

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Lecturer, EEE, BUET.



Draw Conduit Diagram for Example 3:



Draw Conduit Diagram for Example 4:

Prepared by: Md. Itrat Bin Shams (Sanin)
Lecturer, EEE, BUET.

