



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

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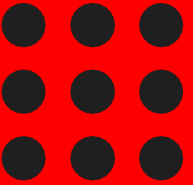
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME : 19EE101-BASIC ELECTRICAL & ELECTRONICS ENGINEERING

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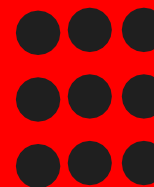
Unit 3: Electrical Wiring

Topic : Types of Wiring





NEED FOR WIRING





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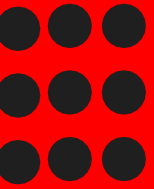




CLEAT WIRING

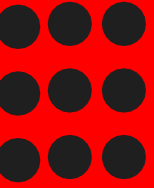


Cleats with grooves are used to hold the cable. It is a temporary wiring system so not used in typical house constructions





CASING WIRING



Open wiring system where the wires are run through casing enclosure and capping is used to cover the casing.

Casing and Capping Electrical Wiring

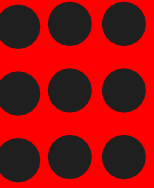




BATTERN WIRING

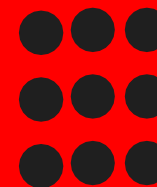


Single or a group of wires are laid over a wooden batten. The wires are held to the batten using a brass clip, which is attached to the wooden battens at an interval of 10-15 cms





SURFACE CONDUIT WIRING



Surface Conduit Wiring

PVC or GI conduits are laid on the surface of the wall or ceiling. These conduits are attached to the walls with a 2-hole strap and base clip at a regular certain distances. Electrical wires are laid inside the conduits





CONCEALED CONDUIT WIRING



PVC conduit pipes are placed inside the chiselled brick/block wall before plaster. The wall is later completely plastered and painted. Electrical wires are laid inside the conduits. This type of wiring are aesthetically appealing since they are no electrical wires/conduits seen on the top of the wall.



REFERENCES

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2. Bhattacharya. S.K, “Basic Electrical and Electronics Engineering”, Pearson Education , (2017) – UNIT I – IV
3. Mehta V K, Mehta Rohit, “Principles of Electrical Engineering and Electronics”, S.Chand & Company Ltd, (2010)- UNIT I and II
4. Mehta V K, Mehta Rohit, “Principles of Electronics”, S.Chand & Company Ltd, (2005)- UNIT IV and V
5. <https://happho.com/install-concealed-conduit-electrical-wiring-system-properly/>

THANK YOU