K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU-560109
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SESSION: 2020-2021(ODD SEMESTER)

SUBJECT: TRANSFORMERS AND GENERATORS SUBJECT CODE: 18EE33

Presented on: 7/11/2020

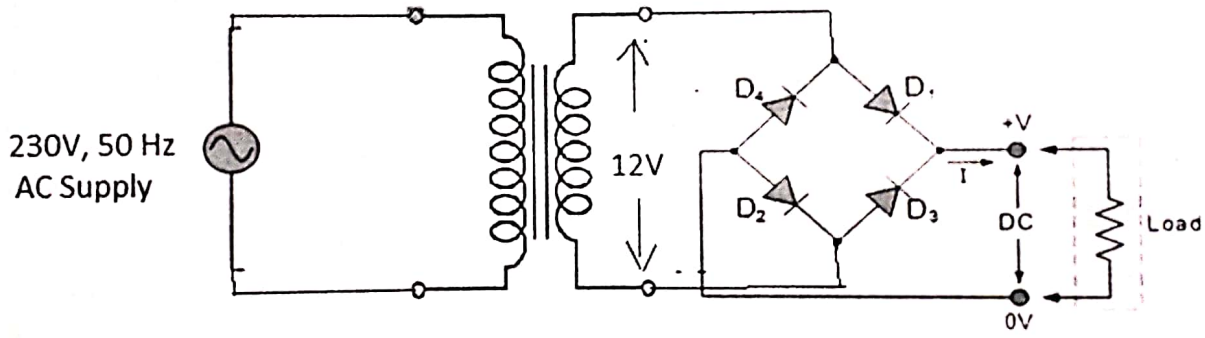
MINI PROJECT

TRANSFORMER APPLICATION

A Step down Transformer is a type of transformer, which converts a high voltage at the primary side to a low voltage at the secondary side. If we speak in terms of the coil windings, the primary winding of a Step down Transformer has more turns than the secondary winding i.e, N2<N1

The step-down transformer reduces the AC voltage from high to low whereas the step-up transformer increases the AC voltage from low to high. In fullwave rectifier, we generally use a step-down transformer because the voltage needed for the diode is very small.

CIRCUIT DIAGRAM:



Here input voltage is 230V, 50Hz AC supply and step down transformer of 230/12V rating is used . Input to full wave bridge the rectifier circuit is 12V AC. Rectifier circuit converts AC to DC . Output of the rectifier circuit is connected to the load.

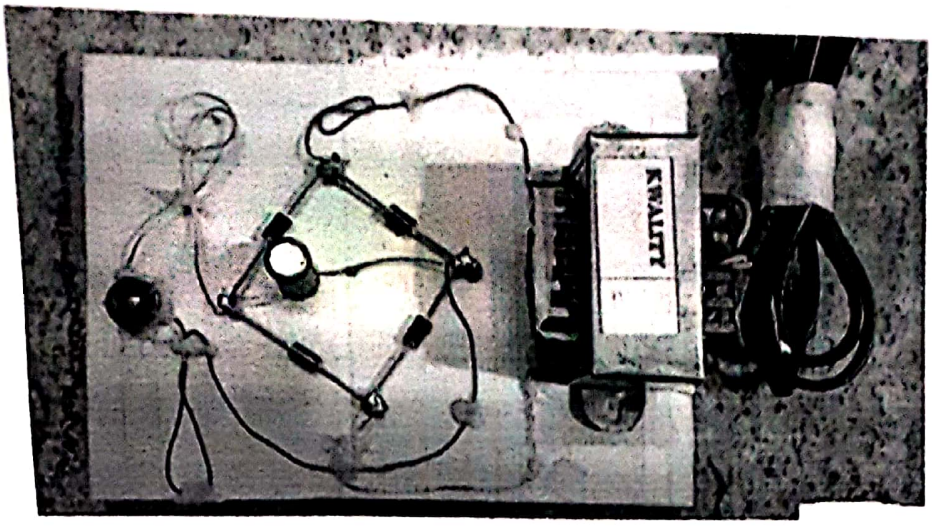


Fig: Miniproject Setup

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