



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

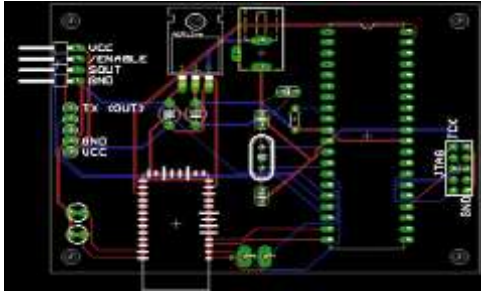
SUBJECT : CIRCUIT THEORY

I B.Tech II SEMESTER

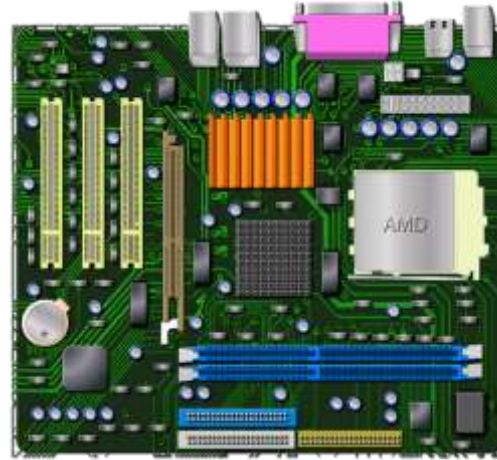
Why am I teaching Circuit Theory

(If circuit theory is not there)

CIRCUIT DESIGN NOT POSSIBLE



NO
ADVANCEMENT IN
COMMUNICATION



INTERNET CAN'T
BE ACCESED

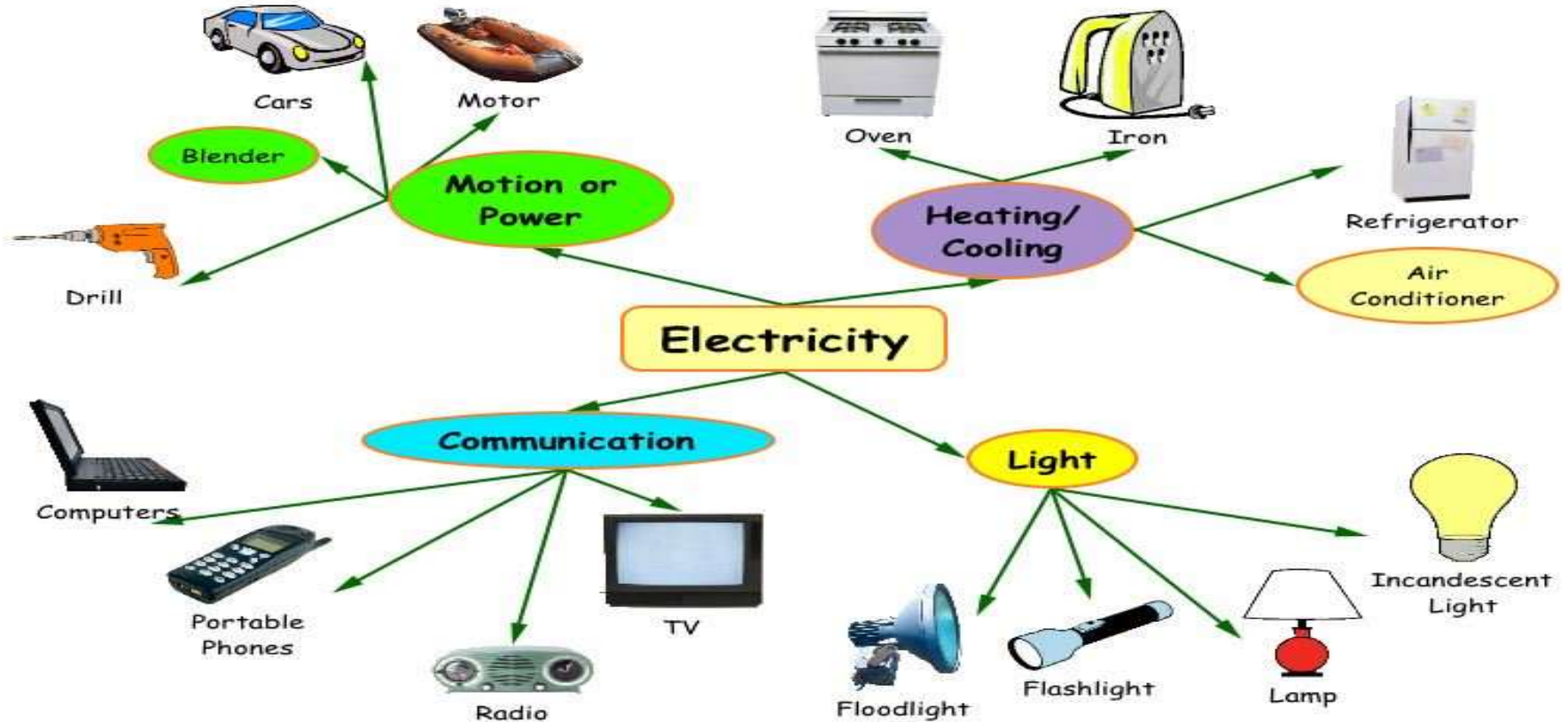


Life with out electricity.

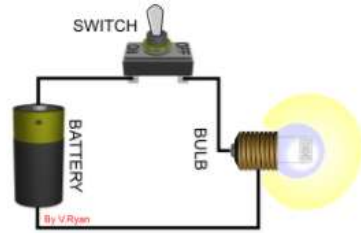


Why am I learning Circuit Theory?

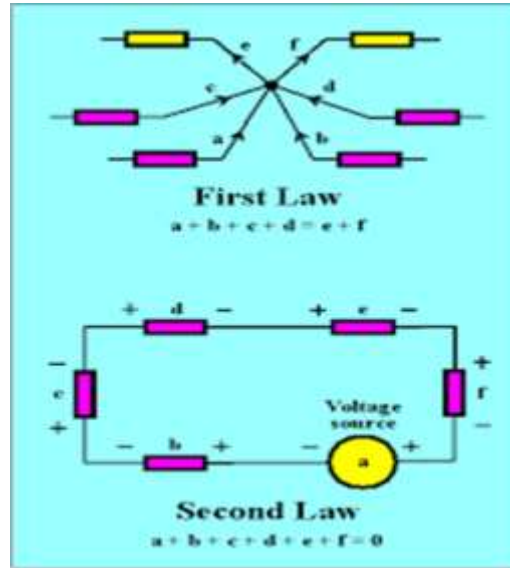
Uses Of Electricity In Our Daily Life



What am I teaching

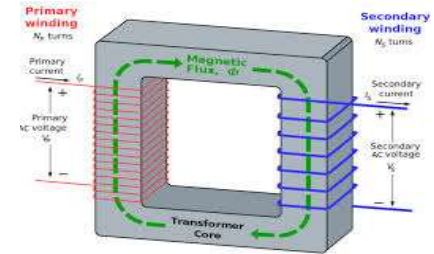


Understanding Circuits

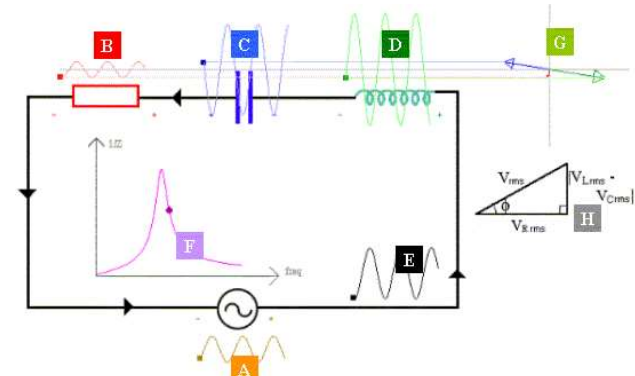
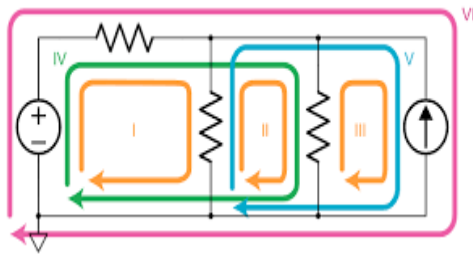


KCL and KVL

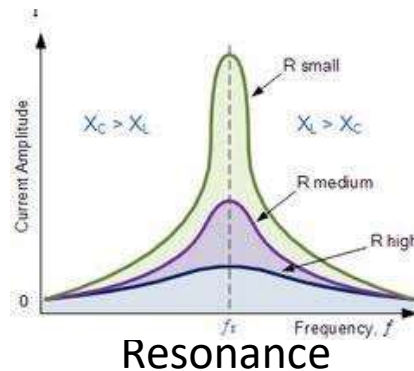
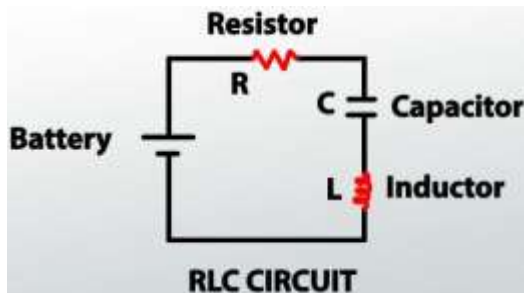
**Nodes
Loops
&
Branches**



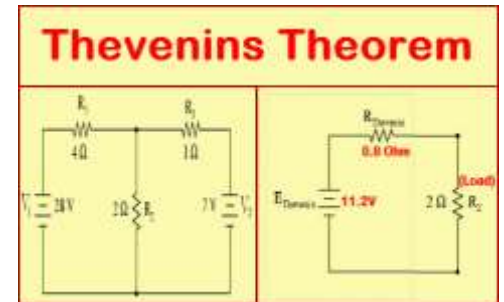
How Magnetic Circuits Work



Analysis of AC Circuits



Resonance



Network Theorems

What am I learning

- **Circuit Concept – R-L-C parameters** to understand how to build the circuit
- **Kirchhoff's laws – network and reduction techniques** to simplify the circuits and make analysis easily
- **Magnetic Circuits** to understand the magnetic behavior and analogy between electric and magnetic circuits
- **Single Phase A.C Circuits** to understand the behavior of R,L,C parameters for ac analysis.
- **Locus Diagrams and Resonance** to understand the concept of resonance and phasors.
- **Network Topology and Network Theorems** to understand the way to solve complex circuits in easier way.