

SNS COLLEGE OF ENGINEERING



Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE NAME: 19EE01 BASIC ELECTRICAL AND ELECTRONICS ENGINEERING

I YEAR /II SEMESTER INFORMATION TECHNOLOGY

Unit 1 – Electrical Circuits and Measurements

AC & DC Circuits

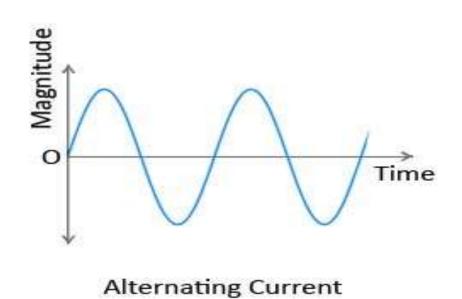






AC CIRCUITS





AC is a sinusoidal in nature which have frequency in its signal

Frequency F = (1/T)

- V- Voltage
- I- Current
- **Z-Impedence**

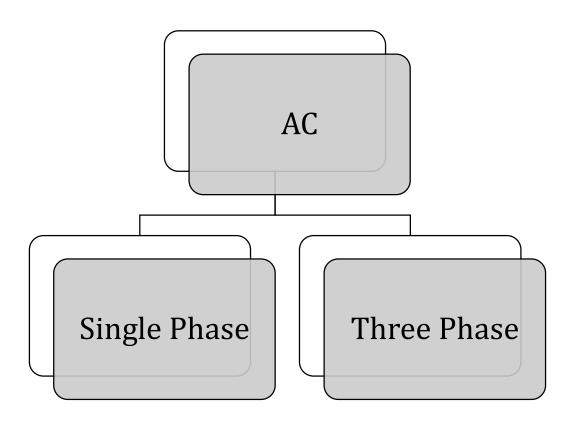






TYPES OF AC





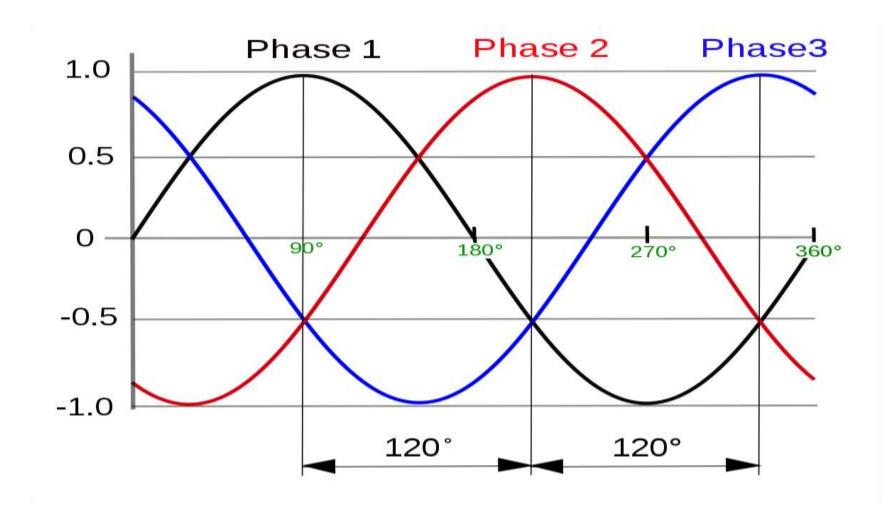






THREE PHASE SUPPLY











ADVANTAGES OF THREE PHASE SUPPLY



- More power
- Smaller in size with higher capacity
- Self starting
- P.f and efficiency
- More economical



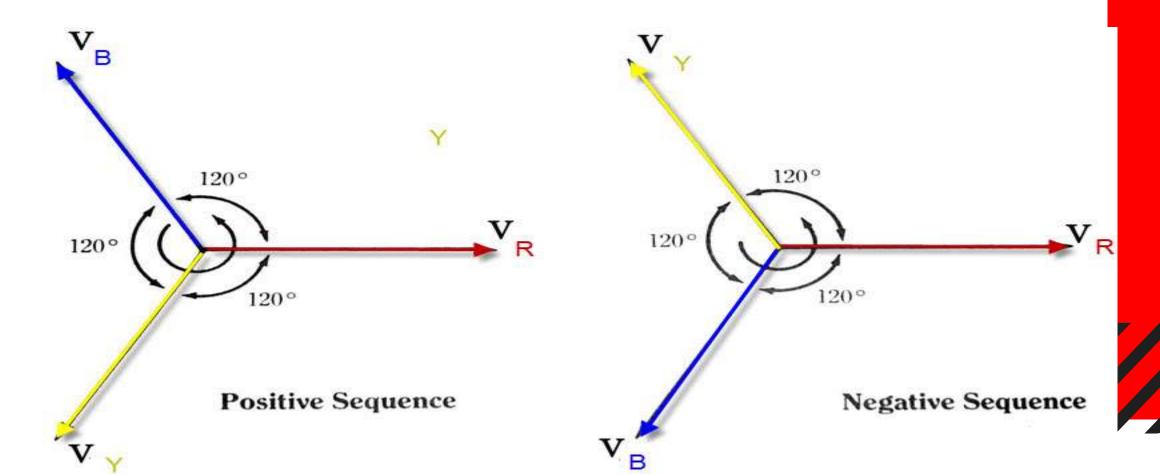






AC & DC



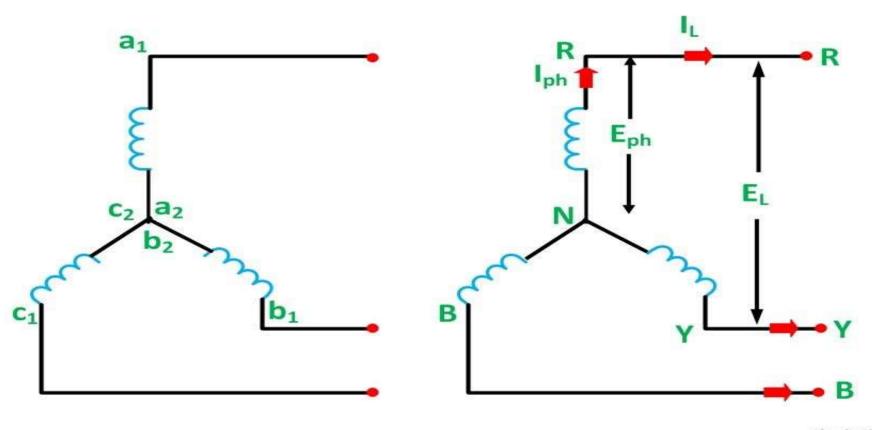






Star connection







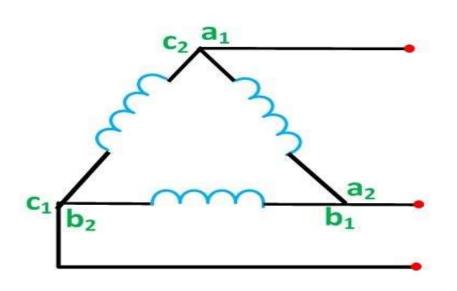
Circuit Globe

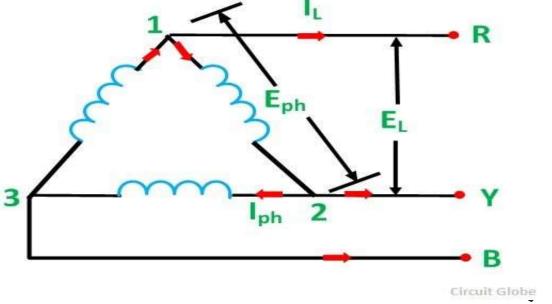




Delta connection













DC





DC source is Direct current where the frequency is zero

I-Current V-Voltage R-Resistance









REFERENCES



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- 2. Muthu Subramanian R, Salivahanan S," Basic Electrical and Electronics Engineering", Tata McGraw Hill Publishers, (2009)
- 3. V.Mittle" Basic Electrical Engineering", Tata McGraw Hill Publishers, (2017)
- 4. Nagrath. I.J, "Electronics: Analog and Digital", Prentice Hall India Pvt. Ltd., (2013)

THANK YOU

