



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 COMPUTER SCIENCE AND DESIGN

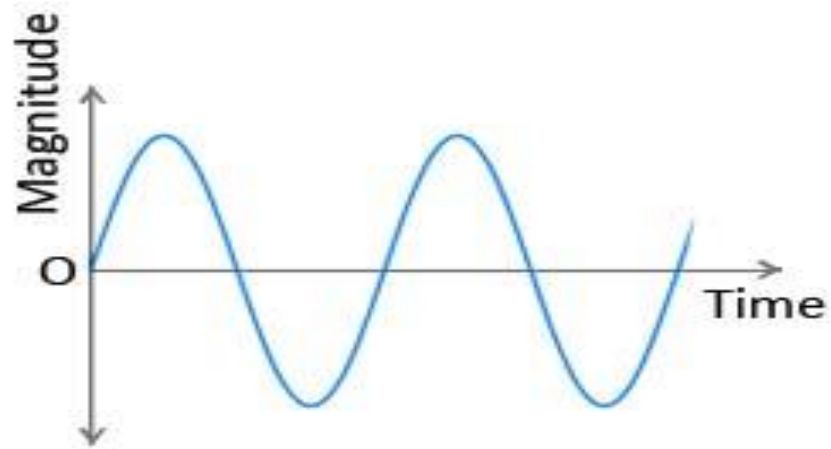
COURSE NAME : 19EE01 BASIC ELECTRICAL AND ELECTRONICS ENGINEERING

I YEAR /II SEMESTER - COMPUTER SCIENCE AND DESIGN

Unit 1 – Electrical Circuits and Measurements

Topic 4 : AC & DC Circuits

AC CIRCUITS

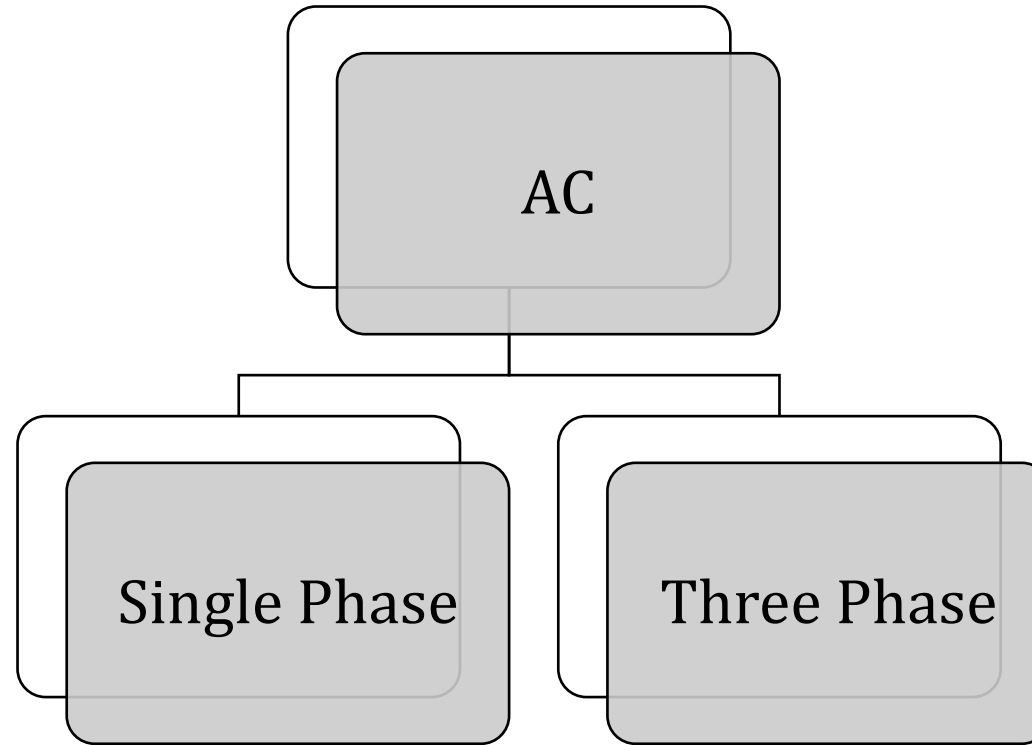


Alternating Current

- AC is a sinusoidal in nature which have frequency in its signal
- Frequency $F = (1/T)$
- V- Voltage
- I- Current
- Z- Impedence

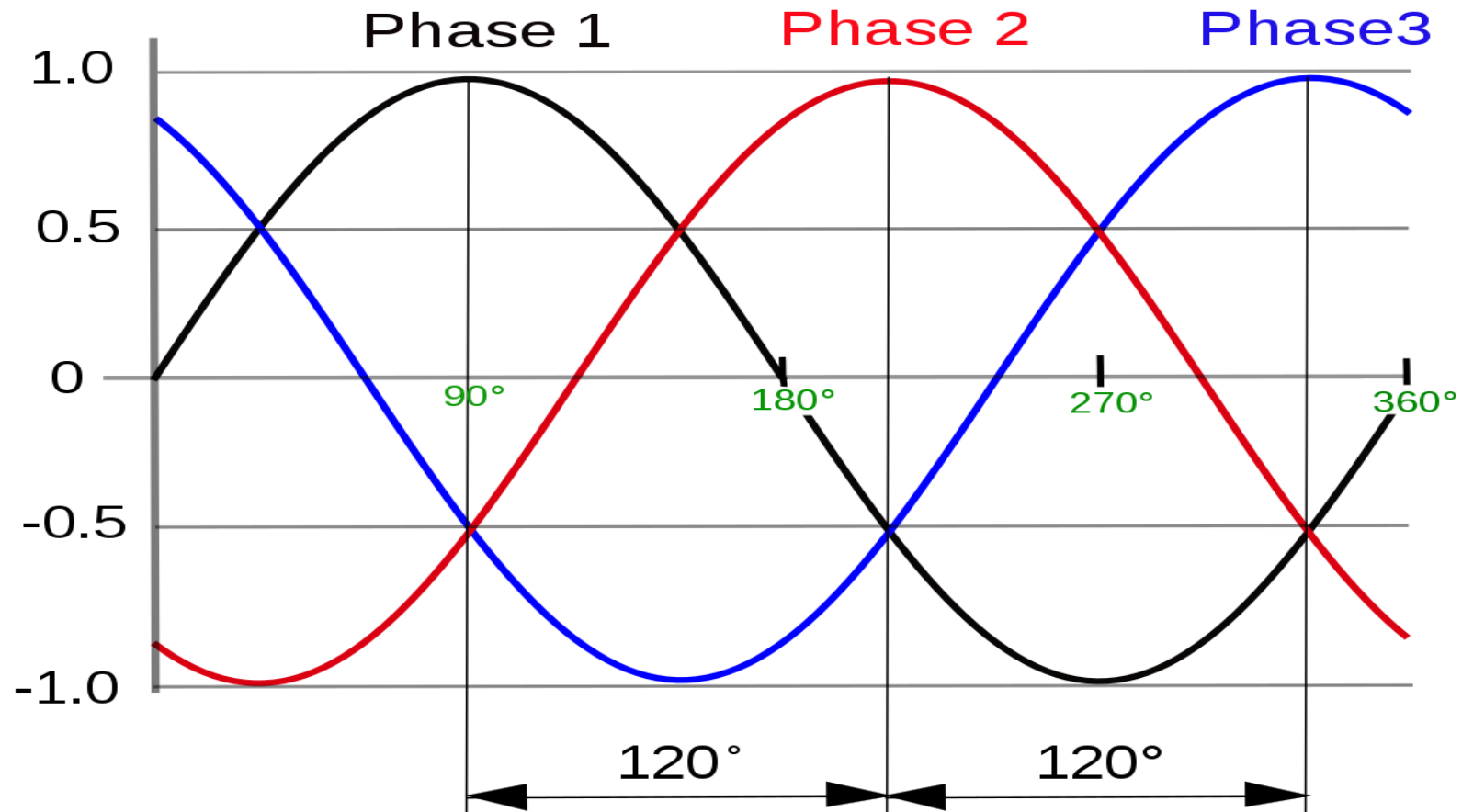


TYPES OF AC





THREE PHASE SUPPLY

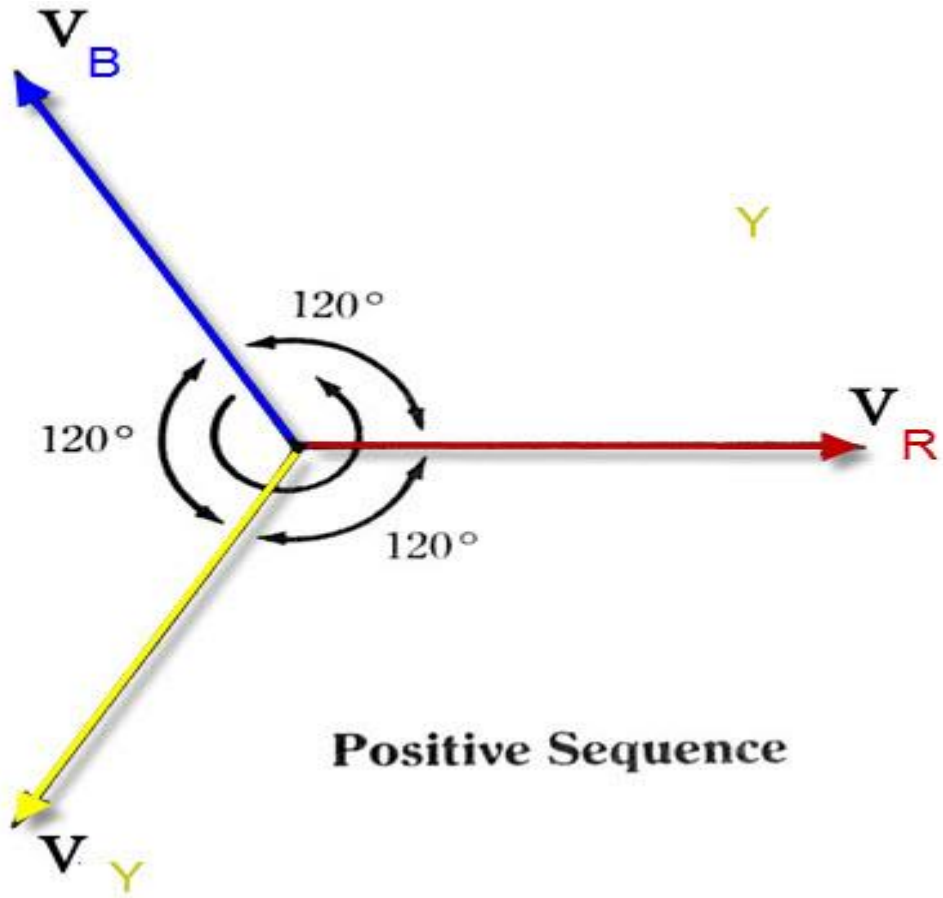




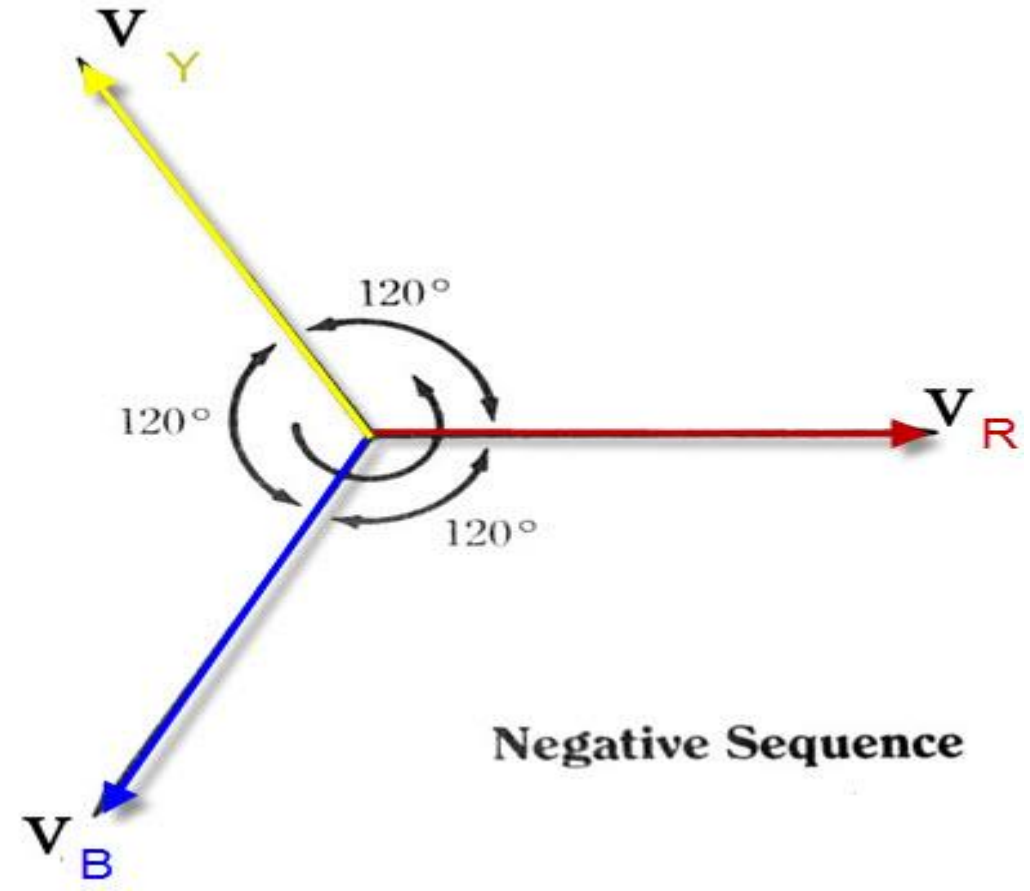
ADVANTAGES OF THREE PHASE SUPPLY

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





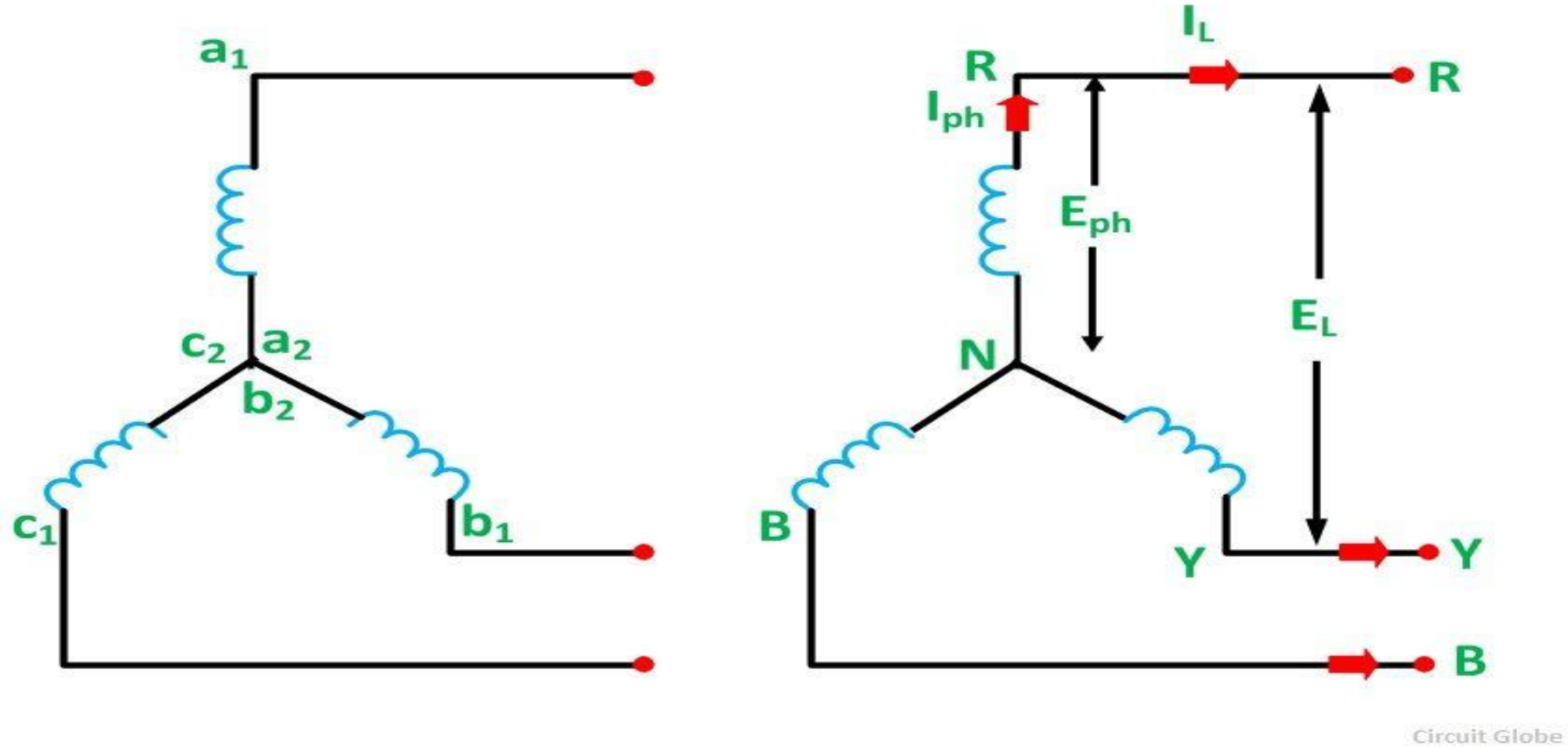
Positive Sequence



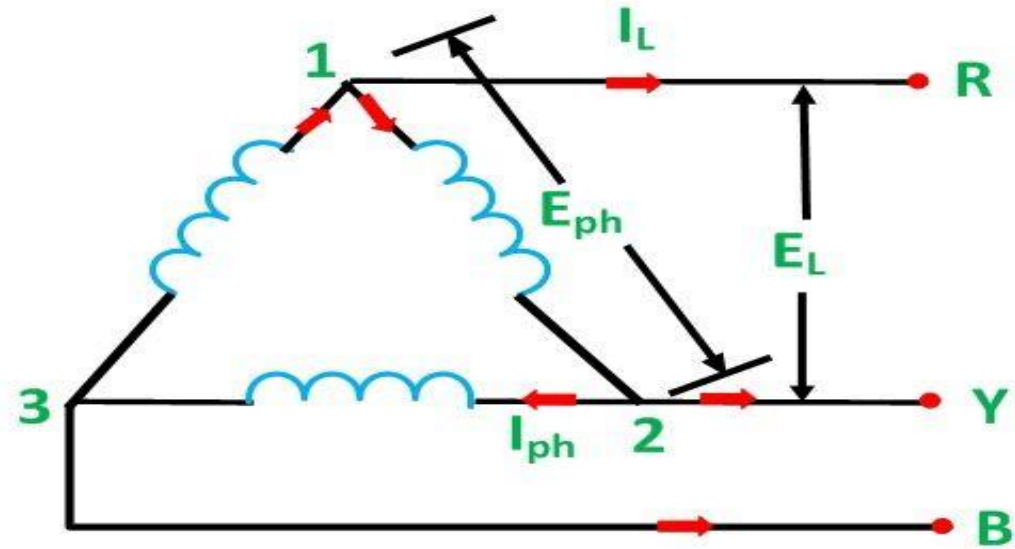
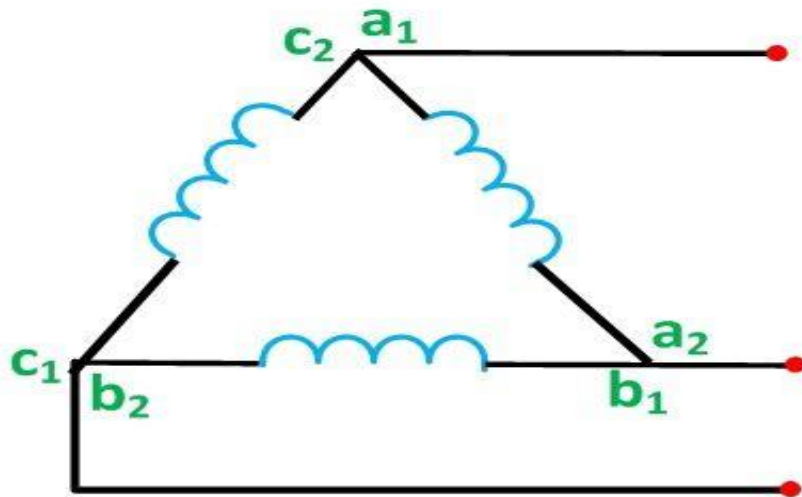
Negative Sequence



Star connection



Delta connection



Circuit Globe



DC



Direct Current

DC source is Direct current
where the frequency is zero

I-Current
V-Voltage
R-Resistance



REFERENCES

1. Bhattacharya. S.K, “Basic Electrical and Electronics Engineering”, Pearson Education , (2017)
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