



**GANDHI SCHOOL OF
ENGINEERING, BHABANDHA, BERHAMPUR**










TEACHING AND LEARNING MATERIAL

**SUBJECT: CIRCUIT NETWORK THEORY
SEMESTER: 3RD**

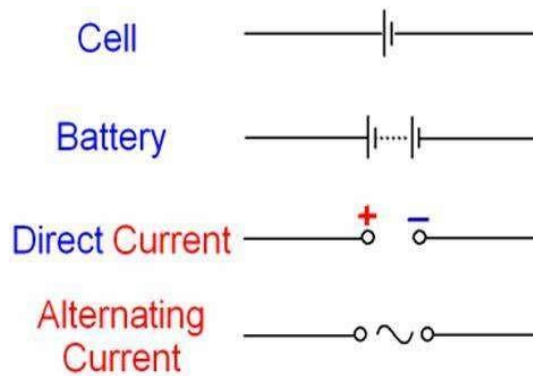
SUBMITTED BY:-ER.AMARESH CHOUDHURY &ER. S.K MAHARANA

CHAPTER-1

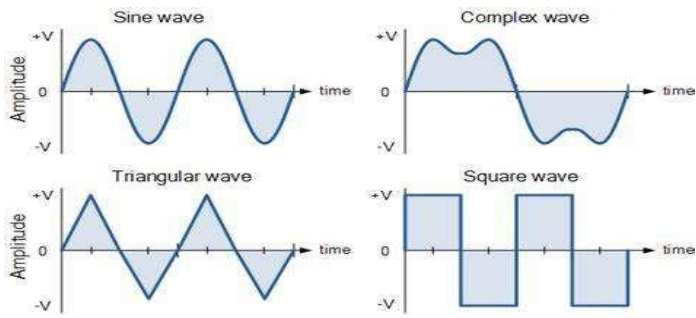
DIFFERENT TYPES OF POWER SOURCE

Power sources	
	Battery
	Battery with polarity labels
	Ideal current source
	Ideal voltage source
	Oscillator
	AC current source
	AC voltage source
	DC current source
	DC voltage source

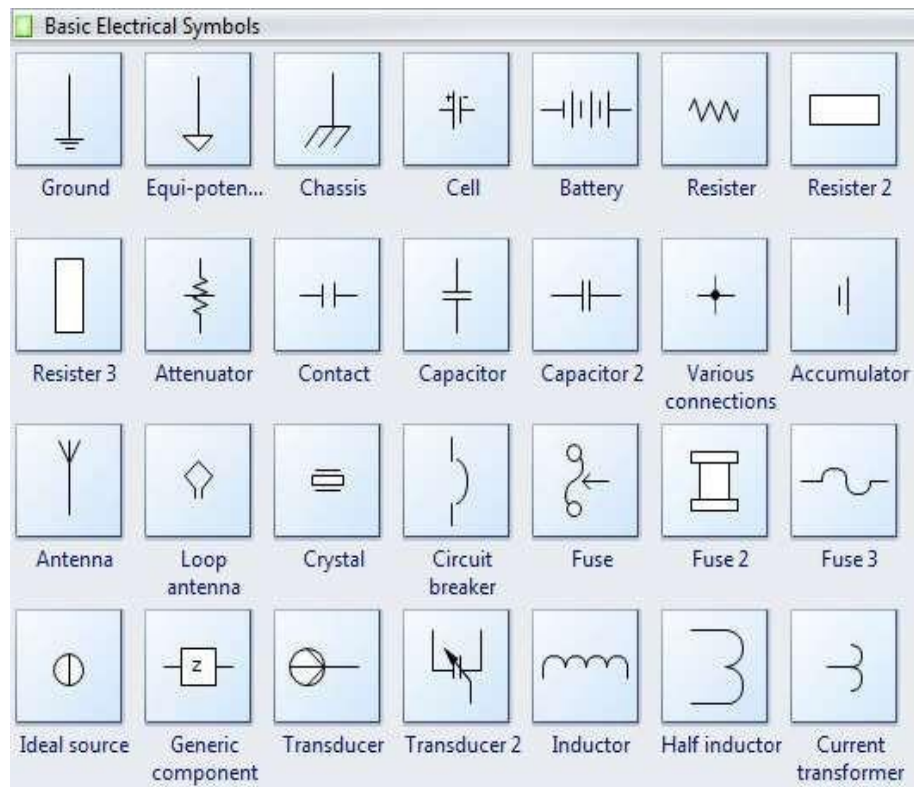
DIFFERENT TYPES OF SOURCE



DIFFERENT TYPE OF WAVE



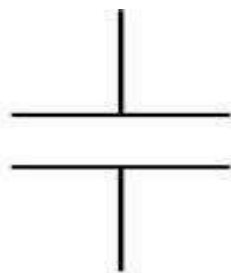
BASIC ELECTRICAL SYMBOLS



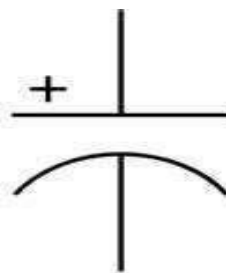
**RESIS
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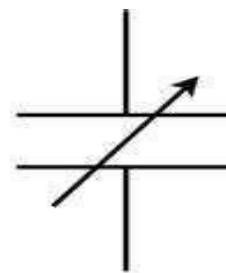
DIFFERENT TYPES OF CAPACITOR



**Non-polarized
Capacitor**



**Polarized
Capacitor**



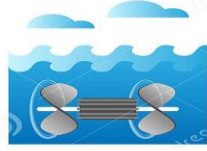
**Variable
Capacitor**

ENERGY SOURCES

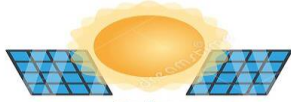
RENEWABLE ENERGY



Wind



Hydropower



Solar



Geothermal



Biomass

NON-RENEWABLE ENERGY



Oil



Coal



Nuclear



Natural Gas

ENERGY SOURCES

DESERTIFICATION

LAND DEGRADATION

