



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

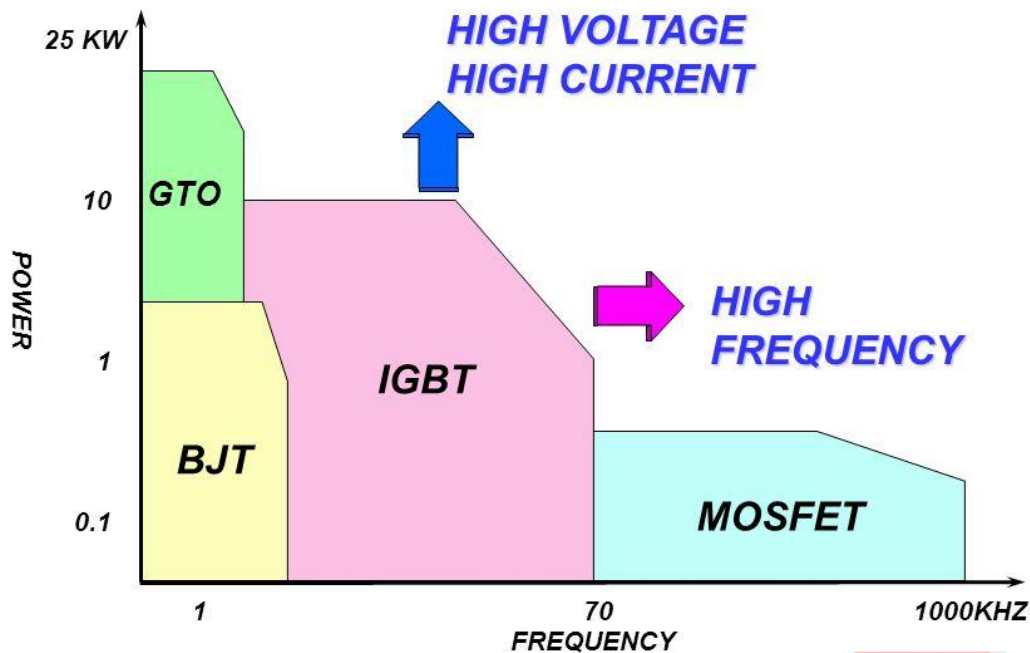
**SUBJECT: POWER ELECTRONICS AND  
PLC  
SEMESTER:5TH**

**SUBMITTED BY:-**

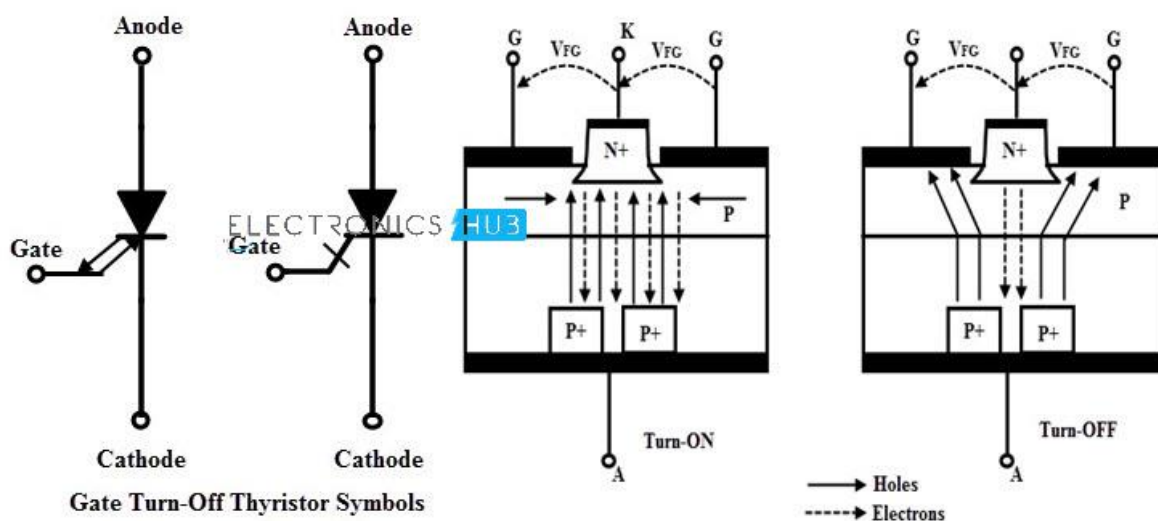
**ER. MONALISH GOUDA & ER. SHIDHART SAMANTRAY**

# CHAPTER-1: UNDERSTAND THE CONSTRUCTION AND WORKING OF POWER ELECTRONIC DEVICES

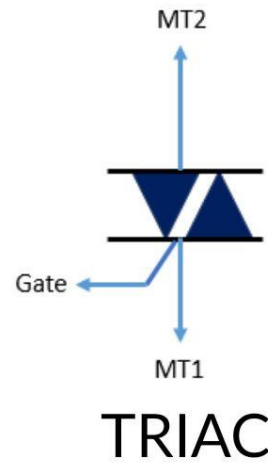
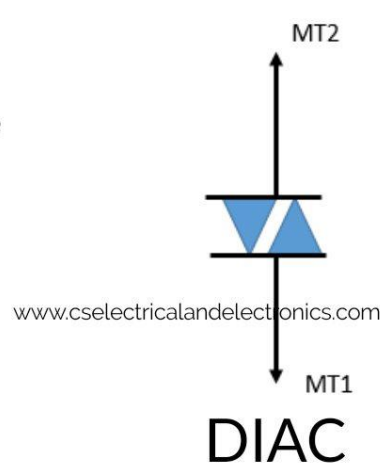
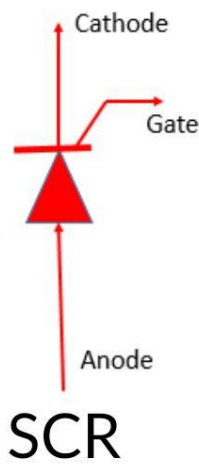
## IGBT Operation Area



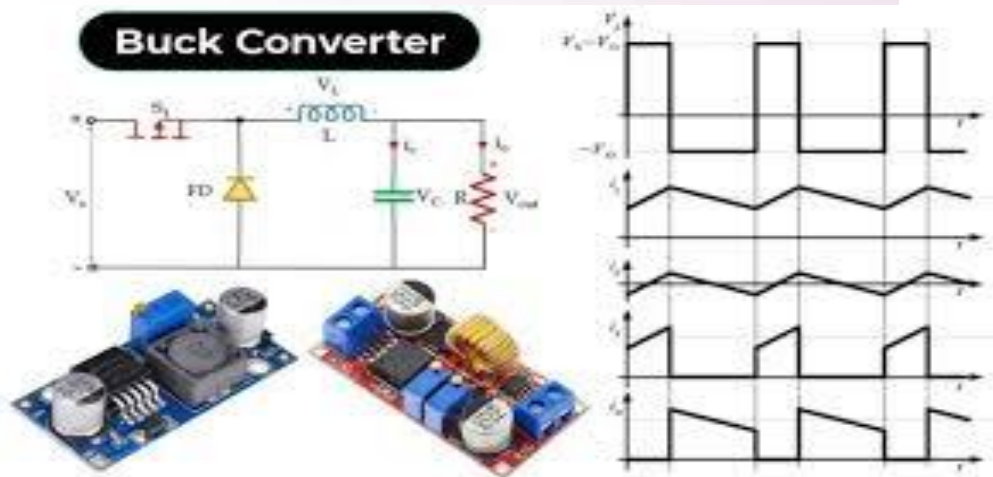
## GATE TURN-OFF THYRISTOR



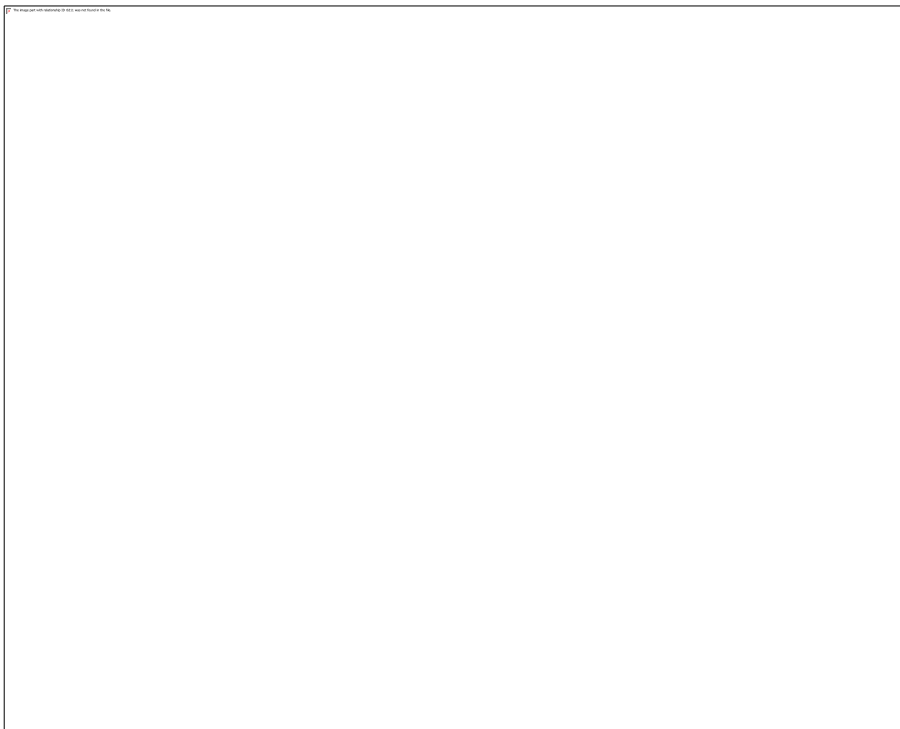
# Difference Between SCR, TRIAC, DIAC



CHAPTER-2: UNDERSTAND THE WORKING OF CONVERTERS, AC REGULATORS AND CHOPPERS.



# CHAPTER-3: UNDERSTAND THE INVERTERS AND CYCLO-CONVERTERS



## CHAPTER-4: UNDERSTAND APPLICATIONS OF POWER ELECTRONIC CIRCUITS

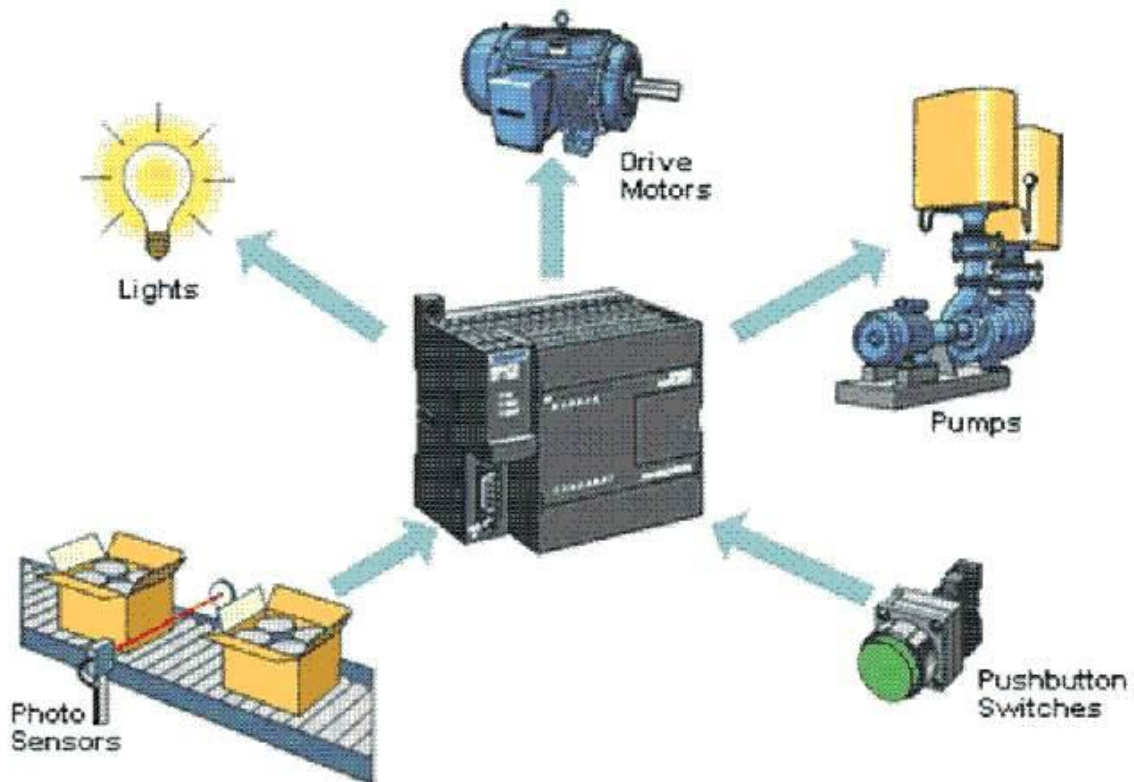
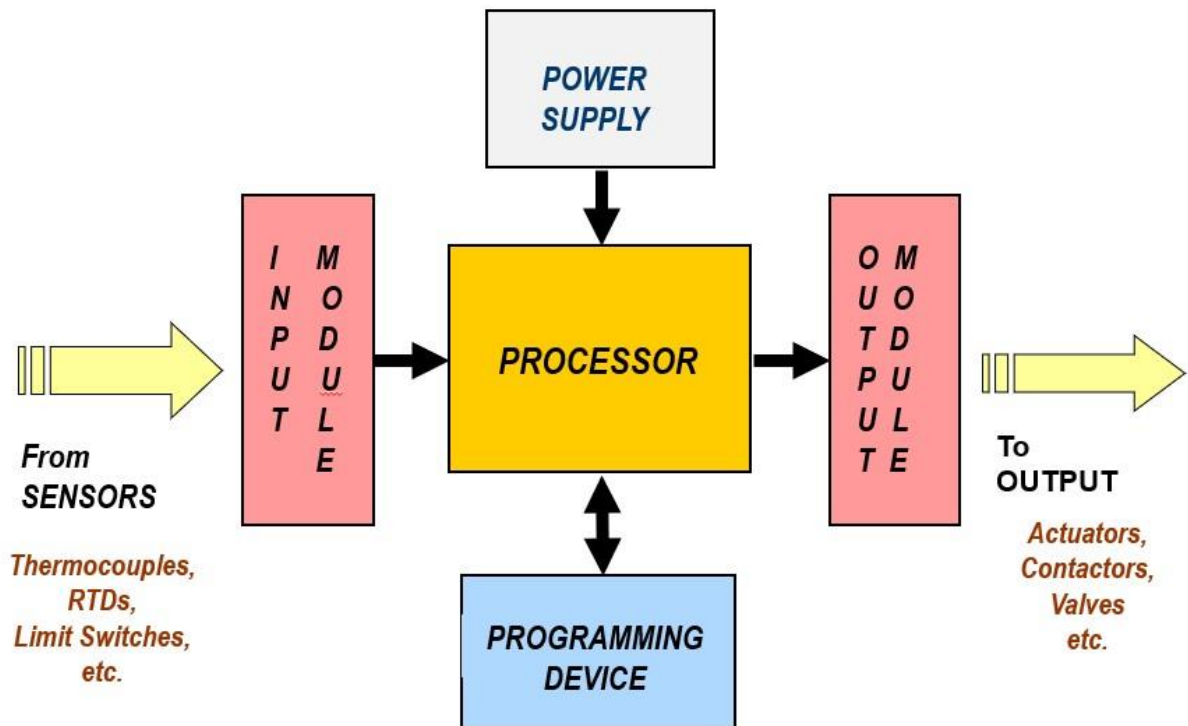


[www.cselectricalandelectronics.com](http://www.cselectricalandelectronics.com)



SMPS - Switched Mode Power Supply

# CHAPTER-5:PLC AND ITS APPLICATIONS





WHAT IS A

**Programmable  
Logic Controller  
(PLC)?**