

There are different types of Power Electronics Converters used in industries. In this assignment you are required to search the industrial applications and catalogues of these converters and write on any of the following converters, your assignment should cover the following topics;

- i) Block Diagram
- ii) Circuit Diagram
- iii) Waveforms
- iv) Equations
- v) Specifications
- vi) Application in Industries
- vii) Converter Design

Types of Power Electronic Converters:

- a) Controlled Rectifier
- b) DC Converter (Buck, Boost and Buck-Boost)
- c) AC converters (Cycloconverters, Phase Converter, Triacs, Diacs)
- d) Inverters
- e) VFDs and VSD

Helpful Links:

- 1) <http://dir.indiamart.com/impact/industrial-rectifier.html>
- 2) <http://www.industry.siemens.com/verticals/global/en/mining-industry/heavy-duty-rectifier-applications/pages/default.aspx>
- 3) <http://www.ni.com/manuals/>
- 4) <https://www.industry.siemens.com/drives/global/en/pages/drive-technology.aspx>