SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
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 MECHATRONICS

INDUSTRIAL ELECTRONCIS & APPLICATION

III YEAR V SEM

UNIT 5 – Cyclconverter

TOPIC –Introduction- Cycloconverter

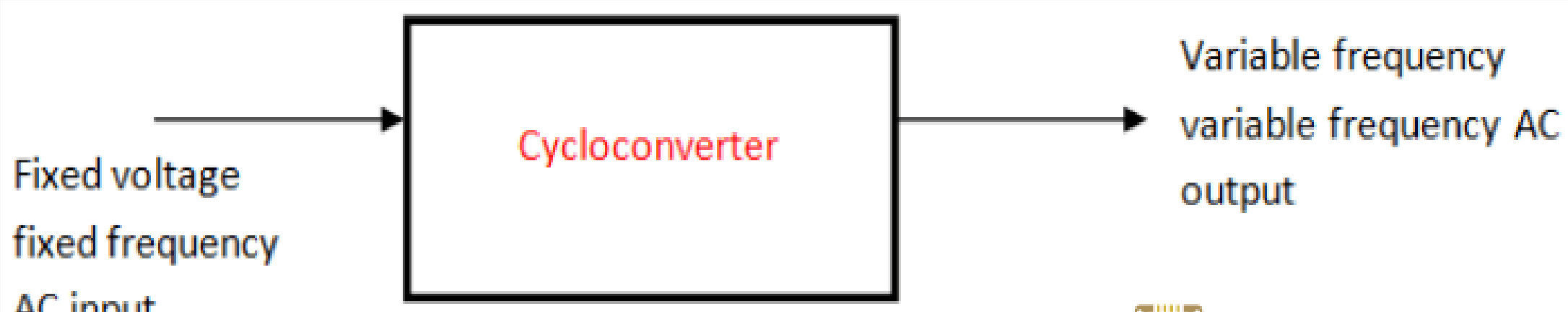
Mr. M.Anand., M.E.,(Ph.D.,)

ASSISTANT PROFESSOR,

DEPARTMENT OF MECHATRONICS,

SNSCT, Coimbatore.

Introduction



Cycloconverter

What is Cycloconverter

A cycloconverter (also known as a cycloinverter or CCV) converts a constant voltage, constant frequency AC waveform to another AC waveform of a different frequency. A cycloconverter achieves this through synthesizing the output waveform from segments of the AC supply (without an intermediate DC link).

Types

Mainly there are two types according to the output frequency which are showing below

- Step-up cycloconverters
- Step-down cycloconverters

Step Up Cycloconverters

It can provide an output having the frequency greater than the input frequency by using line commutation.

Step Down Cycloconverters

It provides output having lower frequency than the input frequency by using forced commutation.