ABSTRACT

Induction motor is a type of motor is often used in the process industries. This is because the induction motor has several advantages that are not owned by the DC motor and is a type of motor used in industry.

By using Boost Converter and inverter at the end of this project will be made for the supply of labor induction motor 1 phase as module development practice. Design for sub 1 phase inverter used to change the DC voltage (which comes from Boost Converter) into AC voltage on the module practice, which can change the frequency of the inverter output voltage between 20 Hz until 65 Hz, can be used for power supply with voltage 220 Vac. Inverter used is a single phase full bridge inverter with PWM switching method. The drive "mosfet" be carried out using a digital microcontroller AT Mega 16.

With practice this module is expected to help learning lectures in the field of Electrical engineering Industrial especially so established harmony and balance between theories with practice obtained.

Key words: Single Phase Full Bridge inverter, Microcontroller AT Mega 16, PWM.