

HIGHER TECHNICAL INSTITUTE
Nicosia - Cyprus

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E/625

ELECTRICAL ENGINEERING DEPARTEMENT
Diploma Project
1988 - 1989

Project Number : E/625

Title :

Instrumentation Of A Motor Generating Set.

Objectives :

1. To investigate the instrumentation available on an engine driven generator set .Attention to be paid to : Revolutions per Minute (RPM) meter , Oil Pressure , Oil Level , Water Temperature , Water Level , Output Voltage Level , Frequency and Battery Voltage .
2. To design , construct and test suitable electronic modules which may replace existing instrumentation .

Terms and Conditions :

1. Attention should be paid to safety of the equipment and the operators .
2. Construction must be modular , using printed circuit boards .
3. The components used in the constructions must be readily available in the Cyprus market and to keep cost to the minimum .

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ABSTRACT

This project (Instrumentation of a motor generating set) deals with various instruments, that will provide a complete view of the condition and performance of a motor generator .

Most of the instruments to be presented provide digital displays .

The instrumentation system consists of a water temperature meter (Thermometer), an RPM meter, an oil pressure indicator, a water level indicator, a voltmeter, a frequency meter and, a fuel level indicator .

As far as the cost of construction of this system is concerned, there will be use of an instrument or part of it for more than one purpose where this is possible .

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