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FACULTY OF ENGINEERING AND INFORMATION

TECHNOLOGY

SCHOOL OF ENGINEERING

FINAL REPORT

FINAL YEAR ENGINEERING PROJECT 2002

Project title : DESIGN AND IMPLEMENTATION OF PHASE METER

OPERATES TO 10 MHZ

Name : LOW KIEN YAP

Student ID : 99005566

First supervisor : MR. FAWWAZ

Second supervisor : DR. KHEDR

Project coordinator : DR. KHEDR



**ABSTRACT**

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The following report discusses about the final project entitled “**Design and Implementation of Phase Meter Operates to 10 MHz**”. This project is part of the final year engineering curriculum done at Sedaya International College with the collaboration with Northumbria University.

This project attempts to introduce a device namely phase meter *to measure the phase shift* between two signals instead of using oscilloscope. Phase measurement using a phase meter is simple and more accurate than an oscilloscope. Moreover, the procedures are very easy to follow and not time consuming.

This project report has four main parts and will discuss about the introduction of the project, the theoretical basis of the phase meter, circuit implementation and simulations and also the project management and costing. The **aim** of the project is to design and implement a phase meter that operates to 10 MHz.