

SCHOOL OF ENGINEERING
UNIVERSITY COLLEGE SEDAYA INTERNATIONAL
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DESIGN OF EARLY WARNING SIGNBOARDS FOR HIGHLANDS

FINAL REPORT

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ABSTRACT

The objective of this study is to design a precaution system for display the different measurement of weather parameters. This precaution system is built to show the weather condition on highland. This study contains a design and development of collecting and displaying for the different measurement of weather parameters. The control system employs a PIC16F877 (Microchip Technology Inc.) to control and maintain the temperature, wind, and rain in the system within specified level without human intervention. The circuit design, simulation and practical results demonstrate the capability of the system to perform the desired outcomes. The accuracy, stability and reliability of the system were tested under different circumstances and the results obtained were compared, which indicated the system performance. Based on the results and analysis, the accuracy of the sensor has been improved to a maximum range. The design system successfully performs as expected and also data collection system with regards to the obtained result.

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