

Automatic Weather Station Design and Development with Real Time Data Collection and Analysis

Course outlines

- **Introduction to AWS**
 - Introduction to Automatic weather station
 - Types of weather station
 - Site selection for AWS
 - Site visit and case study
- **Measuring Parameters**
 - Introduction to Sensors
 - Types of sensors required in measurement of different parameters
 - Selection of sensors
 - Hands on with multiple sensors
- **WMO Recommendation**
 - WMO Standards for AWS
 - Major meteorological variables according to WMO guideline
- **Data Acquisition/Data Analysis**
 - Introduction to Data Acquisition System
 - Components selection as per DAS requirements
 - Integration of hard ware with software of DAS
 - Designing data acquisition system using Advantech Hardware and Software
 - Data logging for weather station and developing charts
 - Data analysis using external softwares
- **Ready to install weather station**
 - Selecting the right system from DAVIS Weather stations
 - Requirements for the installation
 - Establishing communication between hardware and software
 - Hands on with vintage pro ad vintage pro 2 weather station
 - Hands on with Weather Link software