

Ebook free Course syllabus measurements and instrumentation Copy

this course provides an overview of the fundamentals of measurement as applied to psychological testing knowledge of and practical experience in the use of standardized psychological tests in counseling for personality assessment evaluation students become familiar with various types of measurement systems and to set up and perform various experiments according to a given procedure topics include basic measurement methods of rotational frequency temperature pressure and power and a d conversion techniques and data acquisition basic concepts of measurement and measurement instruments sensors and characteristics of sensors calibration errors and methods to minimize professional standards experiment design temperature measurements labview fundamentals application of probability and statistics to measurement regression correlation and causatio unit i concepts of measurements instruments classification applications elements of a generalized measurement system static and dynamic characteristics errors in measurement statistical evaluation of measurement data unit ii measurement of parameters in electrical systems through a series of readings lectures applied analysis and activities students will learn about measurement advanced topics including extensions on definitions of key terms from introductory measurement and will be introduced to methodological approaches to develop and evaluate the adequacy of scales designed both for educational settings 1 1 fundamental quantities and units in science there are five fundamental or base quantities all other quantities are related to these mass symbol m length l and time t are three of these quantities we will use two others later electric current and temperature students will learn classical and modern measurement techniques including reliability generalizability theory validation differential item functioning item response theory scaling linking standard setting and adjustments for measurement error labs 1 session week 3 hours session course goals this course provides the ocean scientist and engineer with an understanding of the theoretical and

practical principles of making measurements in the ocean an introduction to basic oceanographic instrumentation being used today anna university metrology and measurements me8501 mm syllabus for all unit 1 2 3 4 and 5 b e b tech ug degree programme anna university measurements and instrumentation ee8403 mi syllabus for all unit 1 2 3 4 and 5 b e b tech ug degree programme examination and application of principles underlying the theory interpretation and administration of psychological tests including a study of tests of intelligence achievement and ability ee3403 measurements and instrumentation unit i concepts of measurements instruments classification applications elements of a generalized measurement system static and dynamic characteristics errors in measurement statistical evaluation of measurement data unit ii measurement of parameters in electrical systems this course covers measuring techniques analog and digital instruments transducers and signal processing techniques errors and uncertainty analysis and resistance inductance capacitance power energy and frequency measurement 1 why measure what problems does measurement solve 2 how to set measurable goals 3 how to define your audience parameters and benchmarks 4 how to select the most appropriate metrics for your department or programs units and measurement 2 1 introduction 2 2 the international system of units 2 3 measurement of length 2 4 measurement of mass 2 5 measurement of time 2 6 accuracy precision of instruments and errors in measurement 2 7 significant figures 2 8 dimensions of physical quantities a measurement consists of two parts one is numeric and the other is standard chosen for example 5 meter of length implies 5 times the standard meter it is not necessary to establish a measurement standard for every physical quantity understanding units of measurement encompasses how a student becomes increasingly able to recognise attributes that can be measured and how units of measure are used and calculated transitioning from informal to formal units a student attends to the structure of the unit used to measure mechanical measurements introduction to measurements errors in measurements statistical analysis of data regression analysis correlation estimation of uncertainty and presentation of data design of experiments a system of units of measurement also known as a system of units or system of measurement is a collection of units of measurement and rules relating them to each other systems of measurement have historically been important regulated and defined for the purposes of science and

commerce the metric system has 3 main units namely meter to measure the length kilogram to measure the mass and seconds to measure time meter length is measured in meters the unit is denoted by the alphabet m look at the chart below

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