

Statistics and Data Analysis - Basics

Modules

Module 1:

Introduction to Probability Theory

Module 2:

Basics of Data Analysis

Module 3:

Explorative Data Analysis

Module 4:

Inferential Statistics – from Sample to Population

Module 5:

Regression Analysis

Contents

- Population and sample
- Statistical indicators
- Data visualisation
- Important distributions: binomial, Poisson, normal, exponential distribution
- Parameter estimation
- Testing differences between groups: t-test, z-test
- Correlations between variables
- Introduction to R

Practical requirements

You are confronted with data to...

- make decisions on a quantitative basis
- analyze measurement or test data
- make risk assessments
- compare groups, e.g. materials, suppliers, etc.
- measure correlations between interesting variables (e.g. to optimize efficiency or process quality)

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