

# Applied Statistics I

(IMT224 $\beta$ /AMT224 $\beta$ )

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# Statistical Software Packages

# Why do we need statistical software?

Statistical analysis computer applications have the advantage of being accurate, reliable, and generally faster than computing statistics and drawing graphs by hand.

# Comparison of commonly used statistical packages

Product	Latest version	Cost(\$)	Open source	Interface
Minitab	May 18, 2010	895 – 1395 <sup>1</sup>	No	CLI/GUI
SPSS	2011	4975	No	CLI/GUI
PSPP	May 05, 2011	Free	Yes	CLI/GUI
R	April 13, 2011	Free	Yes	CLI/GUI
SPlus	2005	2399/year	No	CLI

Higher prices may apply to current purchases and the lower pricing is offered to academic purchasers.

1- Perpetual

# Software cracking

- ▶ Software cracking is the process of bypassing the registration and payment options on a software product to remove copy protection safeguards or to turn a demo version of software into a fully functional version without paying for it.
- ▶ Software cracking is considered illegal and cracked software is often called pirated software.
- ▶ Cracked software generally has had the executable modified and can cause undesirable behaviour.

# *Minitab*

- ▶ *Minitab* is a statistical analysis software.
- ▶ It can be used for learning about statistics as well as statistical research.
- ▶ *Minitab* is relatively easy to use once you know a few fundamentals.

# Use of *Minitab*

- ▶ Data and File Management
- ▶ Tables and Graphs
- ▶ Regression Analysis
- ▶ Multivariate Analysis
- ▶ Nonparametrics
- ▶ Time Series and Forecasting
- ▶ Statistical Process Control
- ▶ Measurement System Analysis
- ▶ Analysis of Variance

# Thanks