

FOR **STAFF**

## CASE STUDY VIDEOS

**Follow students** as they get help with understanding ANOVA



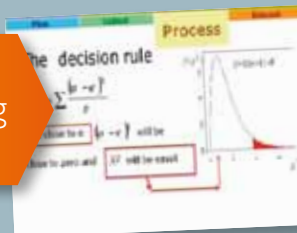
**See how** a problem solving approach is used for statistical analysis



**Follow the advice** being given to students to undertake a Chi-Squared Test



**Follow students** as they get help with understanding the Chi-Squared Test



[www.statstutor.ac.uk](http://www.statstutor.ac.uk)

# statstutor

## CONTACTS

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## statstutor

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**statstutor** was developed by Loughborough University, Coventry University and the sigma Network with contributions from the Royal Statistical Society's Centre for Statistical Education and colleagues from other HE institutions in the UK. Resources are made available for use under a Creative Commons licence.

## sigma $\Sigma$

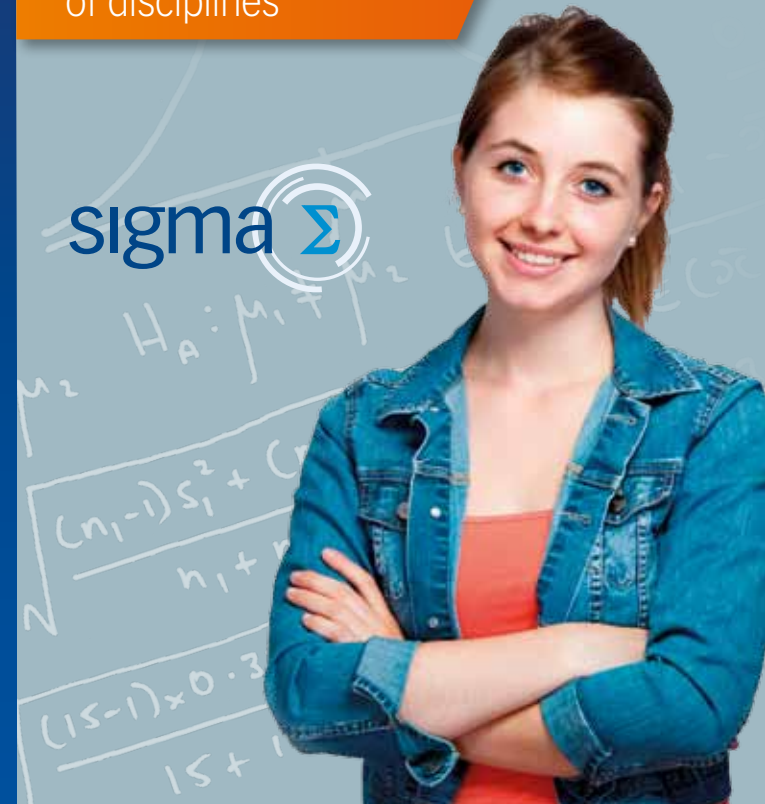
The sigma Network promotes cross-university mathematics and statistics support through regional hubs, developmental activities and mentoring.

[www.sigma-network.ac.uk](http://www.sigma-network.ac.uk)

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**statstutor** offers free online statistics support materials to students, lecturers and everyone looking for post-16 statistics help in a range of disciplines

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## FOR STUDENTS

### CASE STUDY VIDEOS

watch and listen as a tutor helps students handle projects involving real data

### VIDEO TUTORIALS

watch and listen to a tutor working through important topics in statistics

### TEACH YOURSELF

these paper based resources provide in-depth treatment of important topics, with theory and worked examples (sometimes written to accompany the video tutorials above)

### TESTS AND QUIZZES

on specific topics to enable you to gauge your competency and decide whether further work is required

### FACTS & FORMULAE LEAFLETS

electronic versions of the very popular leaflets distributed by the Higher Education Academy MSOR Subject Centre

## RESOURCES AVAILABLE NOW!

### Statistical Terminology

#### Presenting and Summarising Data

- Data summaries
- Graphs, plots and charts

#### Frequency Tables and Contingency Tables

#### Introduction to Hypothesis Testing

#### Chi-Squared Tests of Association

- Calculating expected frequencies in two-way tables
- Chi-squared tests for two-way tables

#### t-tests and comparing means

- Paired t-tests
- Independent samples t-tests

#### Analysis of Variance (ANOVA)

- Introduction to ANOVA
- Two-way ANOVA
- Repeated Measures ANOVA

#### Nonparametric Methods

- Wilcoxon Mann-Whitney tests
- Wilcoxon Signed Rank tests
- Sign tests

### Correlation

- Pearson's Correlation Coefficient
- Spearman's Correlation Coefficient
- Kendall's Correlation Coefficient

### Regression and Model Building

- Simple Linear Regression
- Multiple Linear Regression
- Multilevel modelling

### Multivariate Methods

- Cluster Analysis
- Factor Analysis
- Principal Components Analysis

### SPSS

- Data management using SPSS
- Statistical analyses using SPSS

### Probability

### Measurement Scales and Reliability

### Sample Size and Statistical Power

### Problem Solving Approach in Statistics

Resources continually being added .....

For mathematics resources see [www.mathcentre.ac.uk](http://www.mathcentre.ac.uk)

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## COMMUNITIES PROJECT

The **statstutor Communities Project** enables academics to contribute resources they have developed to enable the volume and scope of statistics materials available to support students to increase significantly.

