

## SOR0220 - ELEMENTARY STATISTICAL THEORY

**Lecturer/s:** Various  
**Credits:** 2 ECTS  
**Prerequisites:** SOR0210 or equivalent  
**Lectures:** 14 hours, tutorials and computer sessions  
**Semester/s:** 2

- Sampling Techniques
- Sampling Distributions
- Inference through confidence Intervals
- Inference through hypothesis testing
- Parametric tests using SPSS
- Applications of the chi-squared distribution and contingency tables

**Method of Assessment:** 100% Examination (Duration: 1½ hours)

### **Suggested Texts:**

- Freund, J. E. and Simon, G. A. (1995) *Statistics – A First Course*, Prentice Hall Inc.
- Speigel, M. R. (1979) *Schaum's Outline Series: Theory & Problems of Statistics* – McGraw-Hill
- Sander, D. (1995) *Statistics - A First Course* – McGraw-Hill
- Freund, J. E. and Simon, G. A. (1997) *Modern Elementary Statistics*, Prentice Hall Inc.
- Wardlaw, A. C. (1999) *Practical Statistics for Experimental Biologists - Second Edition*, Wiley
- Campbell, R. C. (1989) *Statistics for Biologists – Third Edition*, Cambridge University Press
- Newbold, P. (1995) *Statistics for Business and Economics – Fourth Edition*, Prentice Hall Inc.
- Barrow, M. (2001) *Statistics for Economics, Accounting and Business Studies*, Financial Times Prentice Hall Inc.
- Knapp, R. G. (1984) *Basic Statistics for Nurses – Second Edition*, Delmar
- Finkelstein, M. and Levin, B. (2001) *Statistics for Lawyers – Second Edition*, Springer
- Ross, Sheldon M. (2005) *Introductory Statistics – Second Edition*, Academic Press