PROBABILITIES AND STATISTICS

- 1. Events. Probability. Conditional probability
- 2. Sample schemes: Bernoulli, Poisson, hypergeometrical
- 3. Random variables
- 4. Numerical characteristics of random variables
- 5. Random vectors. Correlation and regression
- 6. Discrete and continuous random variables: Bernoulli Distribution, Poisson Distribution, Normal Distribution, Student Distribution, Chi Squared D istribution
- 7. Convergence of random variables. Laws of large numbers
- 8. Selections. Estimators
- 9. Hypothesis testing applied to means and variance
- 10. Applications of probabilities to actuarial science