Course: Modelling and Analysis of Information Technology Systems
Lecturer: János Sztrik
Course code: INHK521
Type: Lecture
Lessons/Week: 2
Credit: 2
Status: Normal/ Exam course
Requirement:

Competence: After the course the students will be able to use mathematical models for simpler systems
Exam type: Written (Oral)

Weekly schedule of the lectures:

Overview from the earlier topics concerning this course
Convolution of discrete distributions
Convolution of continuous distributions
Exponential distribution
Series systems
Parallel systems
Distribution derived from the exponential distribution
Poisson-process and its properties
Generating function and its properties, examples
Laplace-transform and its properties, examples
Random sums, examples
Renewal processes
Markov chains, birth-death processes
Markov-type systems, examples

Szoftver:
Recommended References


- **J. Sztrik**: http://irh.inf.unideb.hu/user/jsztrik/education/lectures.htm


Dr. János Sztrik

full professor