QUEUEING THEORY AND
ITS APPLICATIONS TO THE PERFORMANCE ANALYSIS OF COMPUTER SYSTEMS

presented by

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Contents

November 3:
Exponential distribution and its properties, Poisson process, Markov Chains, Birth-Death Processes, Queueing Systems, Kendall's Notation.

November X:
Markov-type Queueing Systems (M/M/1, M/M/n/n, M/M/1//n) and their investigations.

November 10:
Modeling tools, Retrial Queueing Systems, Case Studies

References

Lecture Notes of Janos Sztrik:
http://irh.inf.unideb.hu/~jsztrik/education/16/IRMA_Main_Angol.pdf
http://irh.inf.unideb.hu/~jsztrik/education/16/SOR_Main_Angol.pdf

e-notes:
http://web2.uwindsor.ca/math/hlynka/qonline.html

from which I recommend 1, 2

Tool:
http://irh.inf.unideb.hu/user/jsztrik/education/09/english/index.html

http://web2.uwindsor.ca/math/hlynka/qsoft.html

Exercises

1. Find the distibution function of the response time at an M/M/1 system
2. Prove the recurrence relation for the Erlang-blocking probabilities