

## NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Computer Science and Engineering - NOC:Introduction to Computer and Network Performance

Subject Co-ordinator - Prof. Varsha Apte

Co-ordinating Institute - IIT - Bombay

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction, why do delays happen, contention for resources
- Lecture 2 - Performance metrics and parameters
- Lecture 3 - Introducing Queuing Systems
- Lecture 4 - Memoryless Distributions
- Lecture 5 - Operational Laws
- Lecture 6 - Asymptotic Analysis of G/G/1, G/G/1/K queues
- Lecture 7 - Asymptotic Analysis of G/G/c/K queues
- Lecture 8 - Little's Law
- Lecture 9 - Little's Law examples and A Case Study of Open Load test on a Web server
- Lecture 10 - Some results for M/G/1 queue and Memoryless Arrivals
- Lecture 11 - Continuing the Case Study of Open Load test on a web server (Response Time)
- Lecture 12 - Open queuing networks - tandem queuing network
- Lecture 13 - Open queuing networks - general (Jackson) queuing networks
- Lecture 14 - Open queuing networks - examples
- Lecture 15 - Closed Queuing Systems
- Lecture 16 - Closed Queuing System (Continued...)
- Lecture 17 - Case study of Closed Load Test on a Web Server
- Lecture 18 - General formulation of Jacksonian Closed Queuing Networks
- Lecture 19 - Mean Value Analysis for Closed Queuing Networks
- Lecture 20 - Mean Value Analysis examples, Case Study of a Load test on a web server, Closing Remarks

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