

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

NPTEL Video Course - Mechanical Engineering - NOC:Modelling and Simulation of Discrete Event System

Subject Co-ordinator - Dr. Pradeep K. Jha

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Introduction to Simulation
- Lecture 2 - Concept of System, Model and Simulation
- Lecture 3 - Time advance mechanism, Components of a simulation model
- Lecture 4 - Program organization and logic, Steps in a simulation study
- Lecture 5 - Simulation examples
- Lecture 6 - Statistical Models in Simulation
- Lecture 7 - Input probability distribution functions for discrete systems
- Lecture 8 - Continuous distribution functions
- Lecture 9 - Continuous distribution functions and empirical distribution functions
- Lecture 10 - Problem solving on statistical models in simulation
- Lecture 11 - Characteristics of a queueing system
- Lecture 12 - Performance measures of queueing system
- Lecture 13 - Analysis of a single server queueing system
- Lecture 14 - Simulation of a single server queueing system
- Lecture 15 - Computer representation of simulation of single server queueing system
- Lecture 16 - Generation of Random Numbers
- Lecture 17 - Issues and Challenges in Congruential Generators
- Lecture 18 - Testing of random numbers
- Lecture 19 - Generation of Random Variates
- Lecture 20 - Problem Solving on Random Number and Random Variate Generation
- Lecture 21 - Input modeling
- Lecture 22 - Input modeling
- Lecture 23 - Input modeling
- Lecture 24 - Input modeling
- Lecture 25 - Problem Solving on input modeling
- Lecture 26 - Output analysis of a single system
- Lecture 27 - Obtaining a specified precision
- Lecture 28 - Comparison of alternative system configurations
- Lecture 29 - Confidence Intervals for comparing more than two systems

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

www.digimat.in

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

- Lecture 30 - Problem Solving on output analysis of single and alternative systems
- Lecture 31 - Introduction to simulation of manufacturing and material handling system
- Lecture 32 - Issues in material handling system
- Lecture 33 - Modeling of system randomness
- Lecture 34 - Verification of simulation models
- Lecture 35 - Model validity and credibility
- Lecture 36 - Problem solving and case studies on simulation of manufacturing system
- Lecture 37 - Introduction to Monte Carlo Simulation
- Lecture 38 - Inventory Control Simulation using Monte Carlo Technique
- Lecture 39 - In this lecture, Monte Carlo technique was used to solve inventory system problems
- Lecture 40 - Problem solving on Monte Carlo Simulation