

EE6204 SYSTEMS ANALYSIS

Acad Unit: 3.0
Prerequisite: Nil
Effective: Acad Year 2013-2014
Last update: 2 September 2013

CONTENT

Linear, Dynamic and Integer Programming. Optimization Techniques. Random Processes. Queuing Models. Markov Decision Process.

ASSESSMENT SCHEME

Continuous Assessment 20%
Final Examination 80%

TEXTBOOKS

1. Taha H. A., Operations Research: an Introduction, 9th Edition, Prentice Hall, 2010.
2. Puterman, Martin L., Markov Decision Processes: Discrete Stochastic Dynamic Programming (Wiley Series in Probability and Statistics), John Wiley & Sons, 2005.

REFERENCES

1. Frederick S. Hillier and Gerald J. Lieberman, Introduction to Operations Research, 9th Edition, McGraw Hill, 2010.
2. Viswanadham N. and Narahari Y., Performance Modeling of Automated Manufacturing Systems, Prentice Hall, 1992.
3. Christos G. Cassandras, and Stéphane Lafortune, Introduction to Discrete Event Systems, Kluwer Academic, Boston, 1999.
4. D. J. White, Markov Decision Processes, John Wiley, New York, 1997.