

SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc – Information Technology (Integrated)
Semester: VI
Syllabus with Effect from: June - 2014

Paper Code: PS06EIT02	Total Credit: 3
Title of Paper: Introduction to Simulation	

Unit	Description in Detail	Weightage (%)
I	Introduction to simulation Introduction Continuous and discrete system System simulation When to use simulation Phase of simulation study Advantages of simulation Limitations of Simulation Technique Areas of application	25%
II	System Models Concept of a system System Environment System Modeling Types of Models Static Physical Model Dynamic Physical Model Static Mathematical Model Dynamic Mathematical Model Principles Used in Modeling	25%
III	System Study Subsystems A Corporate model Environments Segment Production Segment Management Segment The Full Corporate Model System Analysis System Design System Postulation	25%
IV	System Simulation The Technique of Simulation Monte Carlo Method Types of system Simulation NCT for continues Model NCT for discrete Model	25%



	Distributed Lag Models Cobweb Models Progress of system simulation	
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Basic Text & Reference Books:

- D.s.hira..system simulation by s.Chand and company Ltd
- Geoffrey Gordon.System simulation 2nd Edition by PHI

