LTP- 3-1-0,CRD- 4

SYLLABUS :-

Definitions and Classification of Systems, Concept of Wholeness, Organisation, Hierarchy, Methodology and use of systems approach.Systems Thinking, Learning Organizations, System Archetypes and their use.System dynamics: Causal-loop and flow diagramming, Modelling non-linearity, simulation, policy analysis and design. Consensus Methodologies: Measurement of Consensus, ArrowâÂÂs Conditions, Group Decision Processes, Interpretive Structural Modelling, Analytic Hierarchy Process.Statistical investigations into causal relationships. Principal component analysis, Factor analysis, Discriminant analysis, Cluster analysis. Books1.Business Dynamics: Systems Thinking and Modeling for a Complex World, John Sterman, McGraw-Hill, 2001.2.Introduction to Systems Dynamics Modelling, P K J Mohapatra, P Mandal and M C Bora, University press, Orient Longman, India, 1994.3.Methodology for Large-Scale Systems, A.P. Sage, McGraw Hill, 1977.