

Project Management & Operation Research

EE802D

Credit: 3

Project formalities - feasibility study and economic evaluation; UNI DO, OECD and RBI guidelines.

Network based project management-graph-theoretic applications. CPM, PERT, GERT and DCPM activities. Scheduling with limited resources, cash scheduling to multi projects situation.

Project monitoring and control. Project management under risk and uncertainty.

Operations research-decision-making, development of OR. Linear programming; Formulating of LP models, graphical solution, simplex method, duality theory and application.

Transportation problem, Assignment problem. Waiting line models; elements of queuing models. Poisson arrival and exponential service time distribution, M/M/I Queue. Finite population models. Queuing art models. Applications.

Simulation; modeling, use of random members, flow-chart development, Inventory Control-introduction, costs, deterministic and stochastic models, buffer stocks.