LESSON PLAN

Name of the faculty : Dr. Neetu Gupta

Discipline : EIC

Subject : Operational Research

Programme : B.Tech.

Semester : Eighth

Work Load for this Subject : 04 (Lectures) = 04 Hours/Week

Week	Lecture day	Topic (Excluding assignment and test)
1st	1st	Different types of O.R. models, their construction and general methods of solution.
	2nd	Continue…
	3rd	Continue…
	4th	Linear Programming Problem-Formulation
2nd	1st	Graphical solution
	2nd	Problems based on Graphical method
	3rd	The Standard form of the L.P. Model
	4th	Some Definitions related to solution of the L.P.P.
3rd	1st	The Simplex Method
	2nd	Continue…
	3rd	Problems based on the Simplex Method
	4th	The dual of L.P.P.
4th	1st	Continue…
	2nd	Theorems based on the duality
	3rd	Primal dual relationship
	4th	Dual simplex method
5th	1st	Continue…
	2nd	Sensitivity analysis
	3rd	Transportation Problem-its solution and applications
	4th	Continue…
6th	1st	Continue…
	2nd	Continue…
	3rd	Transportation Problem -Problems for practice
	4th	The assignment model
7th	1st	The assignment model-Problems for practice
	2nd	Travelling salesman problem
	3rd	Network Minimisation
	4th	Continue…
8th	1st	Shortest route problem
	2nd	Continue…

	3rd	Maximum Flow Problem
	4th	Continue…
9th	1st	Project of scheduling by PERT, CPM
	2nd	Continue…
	3rd	Continue…
	4th	Problems of PERT ,CPM
10th	1st	Critical path calculations
	2nd	Construction of the time chart and resource leveling
	3rd	Continue…
	4th	Continue…
11th	1st	Integer programming-examples, method and algorithms
	2nd	Continue…
	3rd	Continue…
	4th	Dynamic programming – Examples of D.P. Models
12th	1st	Continue…
	2nd	Continue…
	3rd	Bellman's principle of optimality
	4th	Continue…
13th	1st	Continue…
	2nd	Method of Recursive optimization
	3rd	Continue…
	4th	Problems based on Method of Recursive optimization