

College of IT and Management Education

Lesson plan

Sub : QUANTITATIVE TECHNIQUE-I (OR)(MCC 405)

Branch : MCA

Semester :4th Semester MCA(jan-jun-2017)

Name of the Faculty : PRANAB KUMAR MOHANTY

Total Credit Point: :3

Total number of classes: 40

Sl. No.	TOPIC PLANNED	SESSION
MODULE-I		13Hours
1	Graphical solution of LPP.	1
2	Simplex algorithm.	1
3	Big-O method.	1
4	Two phase simplex.	1
5	Duality.	1
6	Dual theorems.	1
7	Transportation Problem.	1
8	Variants in Transportation.	1
9	Assignment problem.	1
10	Variants in Assignment.	1
11	Problem discussion.	1
12	Transshipment Problem.	1
13	Problem discussion.	1
MODULE-II		13 Hours
13	Queuing Theory: Basic structure of queuing model.	1
14	Role of exponential distribution.	1
15	Birth and death process.	1
16	Queuing models based on Birth-and-death process.	1
17	Problem discussion.	1
18	Queuing models based on Non-exponential distributions.	1
19	Problem discussion.	1
20	Inventory Theory: Components of inventory models.	1
21	Deterministic Continuous-Review model.	1
22	Problem discussion.	1
23	Deterministic Periodic-Review model.	1
24	Problem discussion.	1

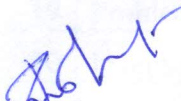
25	Deterministic Multiechelon inventory models for supply chain management.	
26	Problem discussion.	1
MODULE-III		14 Hours
27	Project management: Visual display of a project.	1
28	Scheduling a project with CPM.	1
29	Scheduling a project with PERT.	1
30	Dealing with uncertain activity.	1
31	Time-cost trade-offs.	1
32	Scheduling and controlling project costs.	1
33	Evaluation of PERT/CPM.	1
34	Decision analysis: Decision making without experimentations.	1
35	Decision trees.	1
36	Utility theory.	1
37	Problem discussion.	1
38	Problem discussion.	1
39	Problem discussion.	1
40	Problem discussion.	1

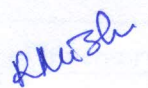
Text book:


1. Frederick S. Hiller, Gerald J. Lieberman, "Introduction to Operations Research", Eighth Edition, McGraw Hill Education, New Delhi

Reference Books:

1. W. L. Winston, "Operations Research Application and Algorithm, Fourth Edition, CENGAGE Learning India Pvt Ltd, New Delhi.
2. Taha, "Operations Research", Eighth Edition, Pearson Education Inc, New Delhi
3. J. K. Sharma, "Operations Research theory and application", 3rd Edition MacMillan India Ltd.
4. Ravidran, Philips, Solberg, "Operations Research, Principles and Practice", Second Edition, John Wiley and Sons, 2006


Faculty


course Coordinator


Principal