ASM's Institute of Professional Studies Pimpri, Pune – 411 018

Teacher's Course Plan

Name of Subject Teacher: Dr. Lalit Kanore

No. of Lectures Allotted per Week: 4(1 Hr Lecture)

Basic Course Information

Programme: MBA II (A)	Semester: III	Title of the Course: Decision Science	Course Code: 302
A: Course Outcomes: On succe	essful completion of the cour	rse the learner will be able to:	

CO#	COGNITIVE ABILITIES	COURSE OUTCOMES
CO-302.1	REMEMBERING	DESCRIBE the concepts and models associated with Decision Science.
CO-302.2	UNDERSTANDING	UNDERSTAND the different decision-making tools required to achieve optimization in business processes.
CO-302.3	APPLYING	APPLY appropriate decision-making approach and tools to be used in husiness environment
CO-302.4	ANALYSING	ANALYSE real life situation with constraints and examine the problems using different decision-making tools.
CO-302.5	EVALUATING	EVALUATE the various facets of a business problem and develop problem solving ability
CO-302.6	CREATING	DISCUSS & propose the various applications of decision tools in the present business scenario.

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Lecture No.	Unit	Topics to be covered	Teaching Pedagogy	Planned Date	Actual Date	Coordin ator's
1	1	Importance of Decision Sciences & role of quantitative techniques in decision making	Interactive Teaching	16/11/22	16/11/22	Sign
2	П	Linear Programming: Concept, Formulation of problem as LPP.	Interactive Teaching	17/11/22	17/11/22	(
3		Graphical Solution of LPP	Interactive Teaching	18/11/22	18/11/22	4
4		Graphical Solution of LPP	Tutorial	19/11/22	19/11/22	ho
5	I	Transportation Models: Concept, formulation, Problem types: balanced, unbalanced, restriction and maximization	Interactive Teaching	23/11/22	23/11/22	- 493-
6		Basic initial solution using NWCM, LCM/MMM & VAM,	Interactive Teaching	24/11/22	24/11/22	
7		More Examples on NWC, LCM & VAM	Tutorial	26/11/22	26/11/22	
8		More Examples on NWC, LCM & VAM	Tutorial	30/11/22	30/11/2	_1/2_
9		Optimal Solution Using MODI Method	Interactive Teaching	01/12/22	1112/22	$\overline{)}$
10		Examples on MODI Method	Tutorial	02/12/22	2/12/22	
- 11		Alternative Solution and special cases in TP	Interactive Teaching	03/12/22	3/12/22	
10		Miscellaneous examples on Transportation Problem	Tutorial	07/12/22	7/72/22	-
12		Assignment Problem, Hungarian Method	Interactive Teaching	08/12/22	8/12/21	
13		Special Cases in Assignment Problem	Interactive Teaching	09/12/22	9/12/122	_
14	п	Markov Chains: Applications related to management functional areas, estimation of transition probabilities.	Interactive Teaching	10/12/22	10/12/22	142-
15		Examples based on Markov chains	Tutorial	14/12/22	14112422	_
16		Simulation Techniques: Monte Carlo Simulation, scope, and limitations.	Interactive Teaching	15/12/22	15/12/22	-
17		Markov Chain examples and monte Carlo simulation examples	Tutorial	16/12/22	16/12/22-	_
18	III	Probability: Concept, & Different definitions of probability	Interactive Teaching	21/12/22	17110101-	
19		Examples on Probability	Interactive Teaching	22/12/22	21/12/22	
20		Conditional Probability	Interactive Teaching	23/12/22	22/12/22	
21		Baye's Theorem & Examples based on bayes theorem	Interactive Teaching	24/12/22	28/12/2	/
22		Probability Distribution: Binomial Distribution with examples	Interactive Teaching	28/12/22	24112/22	- Vo

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2.5		Poisson Distribution with examples	Interactive Teaching	29/12/22	1921111
24		Normal Distribution and examples	Interactive Teaching	30/12/22	28/1/2
25		Examples based on Binomial, Poisson & Normal distribution	Tutorial	30/12/22	29/1422
26		Queuing theory: Single server and multi-server model	Interactive Teaching	31/12/22	30/11/22) 13
27		Numerical based on Single server model	Interactive Teaching	04/01/23	31112pz
28		Numerical based on Single server model	Tuterial	05/01/23	8/1123
29	IV	CPM & PERT: Concept, Drawing network	Internetive Texal	06/01/23	8/1/23
30		Network calculations- calculating EST 1 ST FET 1 ET	Interactive Teaching	07/01/23	3 1/23
31		Slack, floats & Examples	Interactive Teaching	08/01/23	5/1/23
32		Critical Path and prob. of project completion in and of DED T	lutorial	08/01/23	411123
33		Examples	Interactive Teaching	08/01/23	\$1123
		Decision Theory: Concert D.	Tutorial	11/01/23	6/1123
34	V	Maximax, Maximin, Minimax regret	Interactive Teaching	12/01/23	11123
35		Hurwitz's & Laplace criterion, Decision making under risk (EMV, EVPI) for items with and without salvage value.	Interactive Teaching	13/01/23	12/1/23
36		Theory: Concept, 2 × 2 zero sum game, Pure & Mixed Strategy, solution of games with dominance, average dominance method	Interactive Teaching	14/01/23	13/1123
37		Examples	Interactive Teaching	15/01/22	11.1.1.
		Sequencing problem: Introduction Problems involving pricks 2	interactive reaching	15/01/23	1411125
38		machines, n jobs- 3 machines & n jobs-m machines, Comparison of priority sequencing rules.	Interactive Teaching	15/01/23	15/1/23
39		Examples based on n job 2 machines	Tutorial		
40		Examples based on n job 3 machines	Internetion To 11	15/01/23	1511123 A
41		Revision	Interactive Teaching	18/01/23	18/1/23 10
42		Student Presentation	Tutorial	19/01/23	25 1123
43		Student Presentation		21/01/23	25/1125 5
44		Student Presentation		25/01/23	28/123 13
45		Student Presentation		27/01/23	30/1/26
Note	• DD • D	Student Fresentation		28/01/23	3111192

Note: RB: Reference Book; WL: Web Link; CS: Case Study

C: Concurrent Evaluation Plan.

Sr. No.	Concurrent Evaluation	Date	Time	Course Outcome (linkages of CCE with the Course Outcomes and attainment levels for each CO)				the targeted	
	Component			CO-104.1	CO-104.2	CO-104.3	CO-104.4	CO-104.5	CO-104.6
1	Assignment 1	08/12/22 to 14/12/22		0	0	10	15	0	0
2	Online Exam	15/01/2023	06:00 pm 07:00 pm	10	15	0	0	0	0
3	Presentation	21/01/23 to 28/01/23	-	0	0	0	0	10	15

D: Method of Internal Evaluation: 75 Marks are mapped to 50 Marks.

Types of CCE	Max. Marks	
Assignment 1	25	
Online Exam	25	
Presentation	25	

Subject Teacher

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Director

Course Coordinator