OBE based Teaching Lesson Plan 2020-21

Program: B.Com (Travel & Tourism)

Course Name: Operations Research

Course Code: C2 15 MC 602

Semester: VI Lecture hours: 60

Faculty in-charge: Mr. Vinay Pradeep C

Course Outcome No.	Course Outcomes	T level Indicator
CO1.	Describe the nature and scope of OR models and its applications for Business decision making.	T2
CO2.	Develop linear programming models by using graphs for maximization and minimization objectives and interpret such solutions.	Т6
CO3.	Solve Transportation problems for business decision making and interpret such solutions.	Т3
CO4.	Solve assignment problems for business decision making and interpret such solutions.	ТЗ
CO5.	Compare and contrast different Queuing models and its applicability on arriving at business solutions.	T4
CO6.	Solve business problems by using Monte-Carlo simulation technique.	Т3

Continuous Internal Assessment:

Module No. &	Course	No. of	Pre-Class	Instructiona	Assessme	T
Topics Covered	Outcom	Lecture	Activity	1 techniques	nt	leve
	e No.	Hours				1
Module - 1:	CO1	4 Hrs	YouTube	Lecture,	Evaluation	T2
Introduction to			video on	Discussion	through	
Operation			Introduct		tests and	
Research			ion to OR		Question	
					& Answer	
Module - 2:	CO2	12 Hrs	YouTube	Lecture,	Evaluation	Т6
Introduction to			video on	Discussion	through	
Linear			Linear	and	tests and	
Programming			Program	Problem	Question	
			ming	Solving	& Answer	
Module - 3: The	CO3	16 Hrs		Lecture,	Evaluation	Т3
Transportation				Discussion,	through	
Problem				and	tests and	
				Problem	Question	
				Solving	& Answer	
Module - 4: The	CO4	10 Hrs		Lecture,	Evaluation	Т3
Assignment				Discussion,	through	
Problem				and	tests and	
				Problem	Question	
				Solving	& Answer	
Module - 5:	CO5	6 Hrs		Lecture,	Evaluation	T4
Queuing Theory				Discussion,	through	
				and	tests and	
				Problem	Question	
	_			Solving	& Answer	
Module - 6:	CO6	12 Hrs		Lecture,	Evaluation	T3
Simulation				Discussion,	through	
				and	tests and	
				Problem	Question	
				Solving	& Answer	

• Class test 1 : Last week of February

• Assignment : 2nd week of March

• Class test 2: 1st week of April

Books for Reference:

- Budnik, Frank S Dennis Mcleaavey& Richard Mojena: Principles of Operation Research, AIT BS, New Delhi.
- Gould F J: Introduction to Management Science, Englewood Cliffs N J Prentice Hall
- Kalavathy S: Operation Research, Vikas Pub Co.

- Naray J K: Operation Research, Theory and applications, McMillan, New Delhi.
- Richard, I. Levin & Charles A. Kirkpatrick: Quantitative Approaches to Management, McGraw Hill, Kogakusha Ltd.
- Sharma J K: Operation Research, Theory and Applications, McMillan, New Delhi.
- Srivastava V. K. et al: Quantitative Techniques for Managerial Decision Making, Wiley Eastern Ltd.
- Taha Hamdy: Operations Research, Prentice Hall of India.

Approved by: