

LESSON PLAN (SESSION 2024-25)

CLASS:- B.C.A

SEM:- IV

FACULTY NAME :- ANIL KUMAR MAURYA

SUBJECT :- Operation Research

S.N o.	Date.	Day	Paper No.	Unit Name.	Topic.
1	16-Jan-25	Thursday	2	Introduction	Historical development, Meaning of OR
2	17-Jan-25	Friday	2	Introduction	Historical development, Meaning of OR
3	18-Jan-25	Saturday	2	Introduction	Modeling in OR, Principles of Modeling,
4	20-Jan-25	Monday	2	Introduction	Modeling in OR, Principles of Modeling,
5	21-Jan-25	Tuesday	2	Introduction	Application and role of OR in decision making.
6	22-Jan-25	Wednesday	CLASS TEACHING		
7	23-Jan-25	Thursday	2	Introduction	Application and role of OR in decision making.
8	24-Jan-25	Friday	2	Linear Programming Problem	Main components of LPP, Formulation of LPP
9	25-Jan-25	Saturday	2	Linear Programming Problem	Main components of LPP, Formulation of LPP
10	27-Jan-25	Monday	2	Linear Programming Problem	convex set, graphical solution of LPP
11	28-Jan-25	Tuesday	2	Linear Programming Problem	convex set, graphical solution of LPP
12	29-Jan-25	Wednesday	MONTHLY EVALUATION		
13	30-Jan-25	Thursday	2	Linear Programming Problem	convex set, graphical solution of LPP
14	31-Jan-25	Friday	2	Linear Programming Problem	slack and surplus variables, matrix form of LPP
15	1-Feb-25	Saturday	2	Linear Programming Problem	slack and surplus variables, matrix form of LPP
16	4-Feb-25	Tuesday	2	Linear Programming Problem	slack and surplus variables, matrix form of LPP
17	5-Feb-25	Wednesday	2	Linear Programming Problem	slack and surplus variables, matrix form of LPP
18	6-Feb-25	Thursday	CLASS TEACHING		
19	7-Feb-25	Friday	2	Linear Programming Problem	Simplex method for solving LPP
20	8-Feb-25	Saturday	2	Linear Programming Problem	Simplex method for solving LPP
21	10-Feb-25	Monday	2	Linear Programming Problem	Simplex method for solving LPP
22	11-Feb-25	Tuesday	2	Assignment Problem	Introduction, Mathematical formulation of Assignment problem

23	13-Feb-25	Thursday	2	Assignment Problem	Introduction, Mathematical formulation of Assignment problem
24	14-Feb-25	Friday	CLASS TEACHING		
25	15-Feb-25	Saturday	2	Assignment Problem	Introduction, Mathematical formulation of Assignment problem
26	17-Feb-25	Monday	2	Assignment Problem	fundamental theorems, application of assignment problem
27	18-Feb-25	Tuesday	2	Assignment Problem	fundamental theorems, application of assignment problem
28	19-Feb-25	Wednesday	2	Assignment Problem	fundamental theorems, application of assignment problem
29	20-Feb-25	Thursday	2	Assignment Problem	Balanced and unbalanced assignment problem
30	21-Feb-25	Friday	MONTHLY EVALUATION		
31	22-Feb-25	Saturday	2	Assignment Problem	Balanced and unbalanced assignment problem
32	24-Feb-25	Monday	2	Assignment Problem	Balanced and unbalanced assignment problem
33	25-Feb-25	Tuesday	2	Assignment Problem	Hungarian for solving assignment problem.
34	27-Feb-25	Thursday	2	Assignment Problem	Hungarian for solving assignment problem.
35	28-Feb-25	Friday	2	Assignment Problem	Hungarian for solving assignment problem.
36	1-Mar-25	Saturday	CLASS TEACHING		
37	3-Mar-25	Monday	2	Transportation Problem	Introduction, Transportation Matrix
38	4-Mar-25	Tuesday	2	Transportation Problem	Introduction, Transportation Matrix
39	5-Mar-25	Wednesday	2	Transportation Problem	mathematical model of TP, Balanced and Unbalanced TP
40	6-Mar-25	Thursday	2	Transportation Problem	mathematical model of TP, Balanced and Unbalanced TP
41	7-Mar-25	Friday	2	Transportation Problem	mathematical model of TP, Balanced and Unbalanced TP
42	8-Mar-25	Saturday	CLASS TEACHING		
43	10-Mar-25	Monday	2	Transportation Problem	mathematical model of TP, Balanced and Unbalanced TP
44	11-Mar-25	Tuesday	2	Transportation Problem	mathematical model of TP, Balanced and Unbalanced TP
45	17-Mar-25	Monday	2	Transportation Problem	Matrix minima method, Column minima method,
46	18-Mar-25	Tuesday	2	Transportation Problem	Matrix minima method, Column minima method,
47	19-Mar-25	Wednesday	2	Transportation Problem	Matrix minima method, Column minima method,
48	20-Mar-25	Thursday	CLASS TEACHING		

49	21-Mar-25	Friday	2	Transportation Problem	Vogel's approximation method for solving TP
50	22-Mar-25	Saturday	2	Transportation Problem	Vogel's approximation method for solving TP
	24-Mar-25	Monday	MID - TERM EXAM SCHEDULE		
	25-Mar-25	Tuesday			
	26-Mar-25	Wednesday			
	27-Mar-25	Thursday			
	28-Mar-25	Friday			
	29-Mar-25	Saturday			
51	1-Apr-25	Tuesday	2	Transportation Problem	Vogel's approximation method for solving TP
52	2-Apr-25	Wednesday	2	Network Analysis and Game Theory	Introduction of NA, definitions for Network
53	3-Apr-25	Thursday	2	Network Analysis and Game Theory	Introduction of NA, definitions for Network
54	4-Apr-25	Friday	2	Network Analysis and Game Theory	Fulkerson's rules, construction of Network
55	5-Apr-25	Saturday	2	Network Analysis and Game Theory	Fulkerson's rules, construction of Network
56	7-Apr-25	Monday	CLASS TEACHING		
57	8-Apr-25	Tuesday	2	Network Analysis and Game Theory	PERT and CPM method
58	9-Apr-25	Wednesday	2	Network Analysis and Game Theory	PERT and CPM method
59	11-Apr-25	Friday	2	Network Analysis and Game Theory	Introduction to Game Theory, competitive game
60	12-Apr-25	Saturday	2	Network Analysis and Game Theory	Introduction to Game Theory, competitive game
61	15-Apr-25	Tuesday	2	Network Analysis and Game Theory	finite and infinite game ,Zero sum game
62	16-Apr-25	Wednesday	CLASS TEACHING		
63	17-Apr-25	Thursday	2	Network Analysis and Game Theory	finite and infinite game ,Zero sum game
64	19-Apr-25	Saturday	2	Network Analysis and Game Theory	finite and infinite game ,Zero sum game
65	21-Apr-25	Monday	2	Network Analysis and Game Theory	finite and infinite game ,Zero sum game
66	22-Apr-25	Tuesday	2	Network Analysis and Game Theory	fundamental theorems of game
67	23-Apr-25	Wednesday	2	Network Analysis and Game Theory	fundamental theorems of game
68	24-Apr-25	Thursday	MONTHLY EVALUATION		

69	25-Apr-25	Friday	2	RIVISION	RIVISION
70	26-Apr-25	Saturday	2	RIVISION	RIVISION
71	28-Apr-25	Monday	2	RIVISION	RIVISION
72	29-Apr-25	Tuesday	2	RIVISION	RIVISION
73	30-Apr-25	Wednesday	2	RIVISION	RIVISION