System and Operations Logistics Chain on

Transportation Problem Through Case

Date	29-10-20
Time:	11am-12.30pm
Venue:	Online ZOOM ID 784 049 6537
Section:	IFA, MHR and CHR
Batch:	2019-21
Semester:	Third
Faculty Coordinators Name:	Dr. Ranjith P V
Topic:	Transportation Problem through Case
No. of Attendees	106
Feedback:	Yes

1.   Introduction: This activity is to make students become more aware of concept of transportation problem in industry and usage of excel solver for solving it.

2.   Venue (Outside/Inside the campus): Online

3.   Program Objectives: To accumulate knowledge and promote ability to understand and communicate different facts of business

Apply theoretical inputs into practice and use tools of decision making

4. Activity Overview: About the Session (Activity):

- An activity is conducted for all three specializations. A case study on the optimization of the transportation cost for Raipur steel and thermal power plant was shared with the students.

- The case study contains the details of transportation of the raw materials that is iron, coal, and manganese ore which are supplied from three different sources t the common destination plant according to the demand of the plant.
- The objective of the activity is to determine the amounts transportation from each source to each destination that minimizes the total transportation cost while satisfying both the supply limits and demand requirements.
- Transportation model given in the case study is an unbalanced problem where Demand<Supply, so the model was balanced and then using Least cost and VAN method allocations are given for the same, found the minimum total cost i.e. optimum solution (which is 831917.72).
- Faculty explained about the Transhipment model.
- Using the excel solver the transportation model was solved again

5. **Summary and Key Learnings of the session:**

Students learnt how the transportation model solution helps in the reality or in the actual business Insights of how the solver helps in the business and how it is relevant practically.

Practical application of Least Cost Method and VAN method using the real time data provided in the case study.

6. **Participant Details**: Students of CHR, IFA AND MHR Specializations who has quantitative techniques as compulsory subject.

7. **Attendance records: Online(Attached in picture)**

1. 11:36:33   From Alisha khatri to Ranjith P v(Privately) : NW 833,317
2. 11:38:26   From 19mbar0456-elyon : 19mbar0456-elyon-MHR prsent
3. 11:38:29   From 19MBAR0404 Komal Dayama : komal Dayama 19MBAR0404 (MHR)
4. 11:38:29   From Neeraj Gautam : 19MBAR0048_Neeraj Gautam_IFA_Present
5. 11:38:30   From CHANDAN A 19MBAR0052 : Chandan a 19mbar0052 present
6. 11:38:31   From Karunya S Naidu : 19MBAR0507- KARUNYA S NAIDU - IFA PRESENT
7. 11:38:31   From   Maryam Tayyiba : 19MBAR0162 - MARYAM TAYYIBA - CHR - PRESENT
8. 11:38:31   From Jyothirmai P - 19MBAR0362 : Jyothirmai P - 19MBAR0362 - Present
9. 11:38:33   From Chaithra M D : Chaithra M D 19MBAR0186 MHR
10. 11:38:34   From Pavan Kumar M T : Pavan Kumar M T - 19MBAR0216

11. 11:38:35   From   Rashmita : 19MBAR0163-RASHMITA(MHR)
12. 11:38:37   From   Syed Muqeet : Syed Muqeet - 19MBAR0673 - IFA - Present
13. 11:38:38   From   Talanki sirisha : 18MBAR0179- TALANKI SIRISHA-PRESENT (MHR)
14. 11:38:38   From   smriti kharel : 19MBARO558-SMRITI KHAREL-PRESENT(CHR)
15. 11:38:40   From   A.Kusumitha Aishwarya 19MBAR0452 : 19MBAR0452- A. Kusumitha Aishwarya (IFA): Present.
16. 11:38:41   From   19MBAR0542 - R.Divya Deepika : 19MBAR0542-R.Divya Deepika - CHR - Present
17. 11:38:44   From   Chaithanya S 19MBAR0133 : 19MBAR0133 Chaithanya S IFA Present
18. 11:38:44   From   19MBAR0443 : 19MBAR0443- SELVARAJ KAPILRAJ- MHR- PRESENT
19. 11:38:47   From   Jhanvi Rajesh : 19MBAR0277 - JHANVI RAJESH - CHR - PRESENT
20. 11:38:47   From   Sibika Gadia : Sibika Gadia-IFA-19MBAR0399
21. 11:38:48   From   mohan kumar rp : 19MBAR0436- Mohan Kumar R P- present
22. 11:38:49   From   19MBAR0328 CHENNU MANEESHA : 19MBAR0328 CHENNU MANEESHA(MHR) PRESENT
23. 11:38:50   From   nitesh kumar sharma : 19mar0586-nitesh-mhr-present
24. 11:38:51   From   19MBAR0158 Priyanka Sebastian : 19MBAR0158- Priyanka Sebastian - CHR - Present
25. 11:38:53   From   Noel Dominic : Noel Dominic- 19MBAR0038-IFA
26. 11:38:55   From   Sarika 19MBAR0074 : S.T.Sarika 19MBAR0074 - present
27. 11:38:56   From   Harsh Kandele : 19MBAR0242-IFA-Harsh Kandele
28. 11:38:57   From   Vanishree.B - 19MBAR0281 : 19MBAR0281- Vanishree B CHR - Present
29. 11:38:58   From   19MBAR0113 Apeksha Jain : Apeksha M IFA 19MBAR0113 present
30. 11:38:59   From   19MBAR0602 Haafis : 19MBAR0602-Haafis Musthafa IFA
31. 11:39:00   From   anusha hosad : Anusha Hosad - 19MBAR0154 - CHR
32. 11:39:01   From   Meda Sai Ramya Lakshmi : 19MBAR0087-Meda sai ramya Lakshmi -IFA - Present
33. 11:39:01   From   19MBAR0145 : MOHAMMED NIZAM 19MBAR0145 MHR
34. 11:39:01   From   Rahul Krishnan : 19mbar-0365- Rahul Krishnan- present
35. 11:39:02   From   VIVEK CP : VIVEK C P - 19MBAR0166 - CHR - Present
36. 11:39:02   From   sumith kumar : Sumith Kumar 19MBAR0512 IFA Present
37. 11:39:02   From   19MBAR0320(MHR) Ankit Hanumant Kulkarni : Present
38. 11:39:04   From   snehlata singh : Snehlata singh - 19MBAR0676 - Present
39. 11:39:05   From   JERRIPOTHU NAGENDRA PRASAD : 19MBAR0205 - J Nagendra Prasad - IFA - Present
40. 11:39:06   From   Sp Adarsh 19MBAR0140(MHR) : 19MBAR0140 SP ADARSH(56) PRESENT.
41. 11:39:08   From   19MBAR0167 . : 19MBAR0167-Amitha Madhu-CHR-Present
42. 11:39:10   From   SHRUTI RAJ : SHRUTI RAJ 19MBAR0682 CHR PRESENT
43. 11:39:10   From   elezabath judis joseph : 19MBAR0041 JUDIS ELEZABATH JOSEPH - IFA
44. 11:39:16   From   19MBAR0310 : 19MBAR0310_UHA_PRESENT.
45. 11:39:17   From   Arun Rajan 19MBAR0435 : 19MBAR0435 - Arun Rajan S - (MHR) - present
46. 11:39:18   From   jeevitha j : 19MBAR0651 jeevitha.j IFA present
47. 11:39:21   From   19MBAR0028 JAGADEESWAR REDDY : 19MBAR0028- IFA - JAGADEESWAR REDDY T V - Present
48. 11:39:22   From   Kusuma Kr : 19MBAR0545 - kusuma k r - IFA- present
49. 11:39:22   From   benson philip : 19MBAR0447 Benson Philip (IFA) Present
50. 11:39:23   From   Annu Liss Anto : 19MBAR0342- ANNU LISS ANTO - PRESENT

51. 11:39:23   From T Pavan : T PAVAN-19MBAR0100- IFA Present

52. 11:39:26   From 19MBAR0191 Pavan Kumar Chari : Pavan Kumar Chari- 19MBAR0191-CHR-Present

53. 11:39:28   From 19MBAR0168_monisha shekar : 19MBAR0168 Monisha Shekar CHR Present

54. 11:39:41   From Sp Adarsh 19MBAR0140(MHR) : 19MBAR0140 SP ADARSH (MHR) PRESENT

55. 11:39:41   From 19MBARO515 . : Dhanush MN 19MBAR0515 IFA

56. 11:39:42   From 19MBAR0599Amarthya C Prabhu : Amarthya C Prabhu 19MBAR0599- IFA - Present

57. 11:39:48   From VIGNESH BHAT : Vignesh bhat B 19MBAR0109 IFA present

58. 11:39:49   From 19mbar0421 : 19mbar0421-Sankeerthana-CHR-present

59. 11:39:55   From 19MBAR0517 Jayasree : 19MBAR0517 Jayasree-IFA present sir

60. 11:39:56   From 19MBAR0107--niharika : 19MBAR0107-NIHARIKA-MHR-PRESENT

61. 11:40:19   From ankitha merin john : ankitha - 19mbar0036- IFA - present

62. 11:40:21   From ANJANA KV : 19MBAR0035 Anjana kv IFA present

63. 11:40:32   From 19MBAR0276 - Harshaa Modi : 19MBAR0276 - Harshaa Modi - Present

64. 11:40:39   From 19MBAR0303 Syeda Amreen Tanaz : sy6edac amreen tanaz MHR-PRESENT

65. 11:40:43   From 19MBAR0352 : 19MBAR0352 Aditya Chauhan-MHR Present

66. 11:40:44   From Barsha Kandel : 19MBAR0032_Barshakandel_IFA (PRESENT)

67. 11:40:47   From Malavika Pradeep : 19MBAR0047-Malavika P present

68. 11:40:52   From Ryan Dcosta : 19MBAR0125-RYAN AMRIT DCOSTA-PRESENT

69. 11:41:05   From Abhishek Kumar NR : Abhishek Kumar NR - Present

70. 11:41:13   From Alisha khatri : 19MBAR0016-Alisha Khatri-IFA

71. 11:41:27   From supriya s : 19MBAR0076-Supriya.s- present

72. 11:41:38   From 19MBAR0280 Divakar V : 19MBAR0280 Divakar MHR

73. 11:41:56   From Pooja Lakhotia : 19MBAR0574-POOJA LAKHOTIA-CHR-PRESENT

74. 11:42:37   From 19MAR0080- Rupanagudi sai sree vaishnavi : 19MBAR0080 - Rupanagudi sai sree vaishnavi -MHR -present

75. 11:42:53   From 19MBAR0584 Sriram : 19MBAR0584 sriram ifa present

76. 11:43:00   From M Lalith : M LALITH - 19MBAR0286 - MHR - PRESENT

77. 11:43:10   From Madhukar Periwal : 19MBAR0206 - IFA - Madhukar.

78. 11:43:11   From 19MBAR0443 : 19MBAR0443-SELVARAJ KAPILRAJ-MHR-PRESENT

79. 11:43:38   From suchithra m 19MBAR0097 : 19MBAR0097 - M Suchithra - CHR present

80. 11:44:09   From pranathi : 19MBAR0170- Pranathi- CHR

81. 11:44:19   From punam kumari : Punam kumara-19MBAR0321-CHR- Present

82. 11:44:32   From Maryam Fathima : Maryam Fathima-19mbar0177-present

83. 11:45:31   From BHARATH KUMAR : 19MBAR0349 -BHARATH KUMAR - MHR - PRESENT

84. 11:46:09   From ROHIT KUMAR : Rohit Kumar- 18MBAR0443- PRESENT-MHR

85. 11:48:28   From 19MBAR0479 Manaswini Ghatak : manaswini Ghatak- CHR- 19MBAR0479 present

86. 11:48:47   From C Shiva Charan Reddy : present

87. 11:48:58   From 19MBAR0327-SOUMIYA B : 19MBAR0327-SOUMITA B-MHR-PRESENT

88. 11:49:13   From 19MBAR0571 -bavithra r : BAVITHRA R [IFA] - 19MBAR0571 - PRESENT

89. 11:49:17   From   19MBAR0327-SOUMIYA B : 19MBAR0327-SOUMIYA B-MHR-PRESENT

90. 11:52:21   From kaushal kishan : Kaushal kishan - 19MBAR0565 - IFA - present sir
91. 11:52:34   From gopika sb : GOPIKA SB 19MBAR0575-CHR
92. 11:52:50   From Pooja Hegde : 19MBAR0573 POOJA HEGDE PRESENT-IFA
93. 11:53:15   From 19MBAR0389 KUSHAL MPVS : 19MBAR0389 - Kushal - MHR - Present
94. 11:54:56   From TEJAS B M : 19MBAR0675 - Tejas BM - IFA - Present sir
95. 12:00:04   From 19MBAR0588-Neeraja.N : Neeraja.N-19MBAR0588(MHR)-PRESENR
96. 12:02:00   From 19MBAR0635 : 19MBAR0635-Rajitha-MHR-Present
97. 12:02:20   From 19mbar0134- vignesh N : Vignesh N- 19MBAR0134 IFA- Present
98. 12:03:47   From Hithyshi H A : 19MBAR0282- Hithyshi H A-MHR-Present
99. 12:14:15   From 19MBAR0480 Skanda : 19MBAR0480 SKANDA V.C (MHR) PRESENT
100.   12:15:53   From   19MBAR0536 Narmadha S : NARMADHA S - 19MBAR0536 (MHR) - present
101.   12:19:53   From   Ranjith   P   v :   https://docs.google.com/forms/d/10-nsv8ZpPkqcretAzkYkg9eH7GFL8atk23_SltHqan0/edit
102.   12:21:48   From 19mbar0638 : 19mbar0638 Pallavi singh
103.   MHR
104.   12:28:14   From Justin Wilson : Justin Wilson - Present sir
105.   12:28:26   From Justin Wilson : Mic issues sir
106.   12:29:10   From Ryan Dcosta : RYAN-PRESENT SIR

8. **Participants' Feedback, Feedback Analysis and Attainment Calculation: Yes**

i) **Feedback Analysis:**

Questions to Map Pos	List of Pos & PSOs	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total
	Wt Score ▸	5	4	3	2	1	
The program/activity was relevant to my area of specialization	PO2 PSO3	27	39	19	19	2	106
The program/activity enabled me to understand application of concept(s)	PO1 PO7	18	29	38	20	1	106
The program/activity provided an opportunity to apply my skill set	PO3 PSO3	18	40	29	17	2	106
The program/activity provided a platform to interact with peers and professionals	PO5 PSO1	39	29	37	0	1	106
The learning from the program/activity was useful from my career perspective	PO5 PSO2	47	29	10	19	1	106
The program/activity was well planned and executed	PO6	29	10	19	37	11	106

(ii). Attainment Calculation:

POs	Q1	Q2	Q3	Q4	Q5	Q6	Captured By	Total Attainment Score	Level Achieved
PO1		68%					Q2	68%	**2**
PO2	73%						Q1	73%	**3**
PO3			70%				Q3	70%	**3**
PO4									
PO5				80%	79%		Q4 Q5	80%	**3**
PO6						62%	Q6	62%	**2**
PO7		68%					Q2	68%	**2**
PSO1				80%			Q4	80%	**3**
PSO2					79%		Q5	79%	**3**
PSO3	73%		70%				Q1 Q3	72%	**3**

9. Proposals for the Event/Programme: Yes

From   26-10-2020

Dr.V. Navaneethakumar

Professor

Co-Ordinator (SOLS-Club)

CMS Business school

Bangalore

To

The Dean,

CMS Business school

Bangalore

Respected sir,

Sub: requisition of permission to organize Activity-Reg.

We Decision science department like to organize an activity entitled "**Case analysis of transportation model**" on 29-10-2020, time 11.00-12.30 pm by online mode, kindly grant us permission.

Thanking you

Your sincerely

Dr.V. Navaneethakumar

Details:

1. Area chair: Dr. Dheemant Ganathara
2. Facuty coordinator: Dr. Ranjith.P.V
3. Section: **CHR, IFA AND MHR**
4. Semester: Third

10. Minutes of Meetings:

Area Chair: Dr.Dhimant Ganathara

Faculty present:

1. Dr. L.Sudarsan reddy
2. Dr. Srinivasa rao
3. Dr. V.Navaneethakumar
4. Dr. Ranjit.P.V
5. Dr. D.Dilip
6. Dr. Jaya Kumar
7. Dr. Yavana rani

Minutes:

- Area chair welcomed all the faculty members
- Dr. Ranjith and Dr. Sudarshan Reddy proposed their activity plan
- All the faculties suggested their views on the events to be organized
- Area chair received all the views and finalized the event mode, duration and branches
- All the faculties views were received and approved by area chair
- Decided to forward The proposal to The Dean, CMS business school, Bangalore.

Enclosures:

- Enclosed copy of proposal letters

Prepared by:

Dr. V. Navaneetha Kumar

Coordinator

SOLS club

Decision science department

11. Pictures of the Event
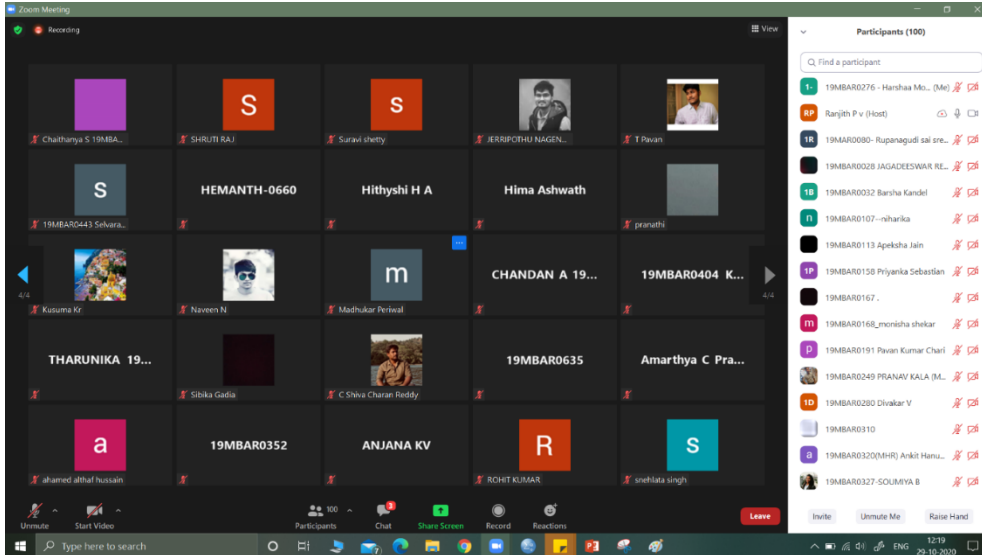
Fig 1.1- Attendance Record for Hands-on training, Case study on Transportation held on October 29th 2020 (Batch and Event: 2019-21; Programme: III Semester MBA, IFA,MHR AND CHR)
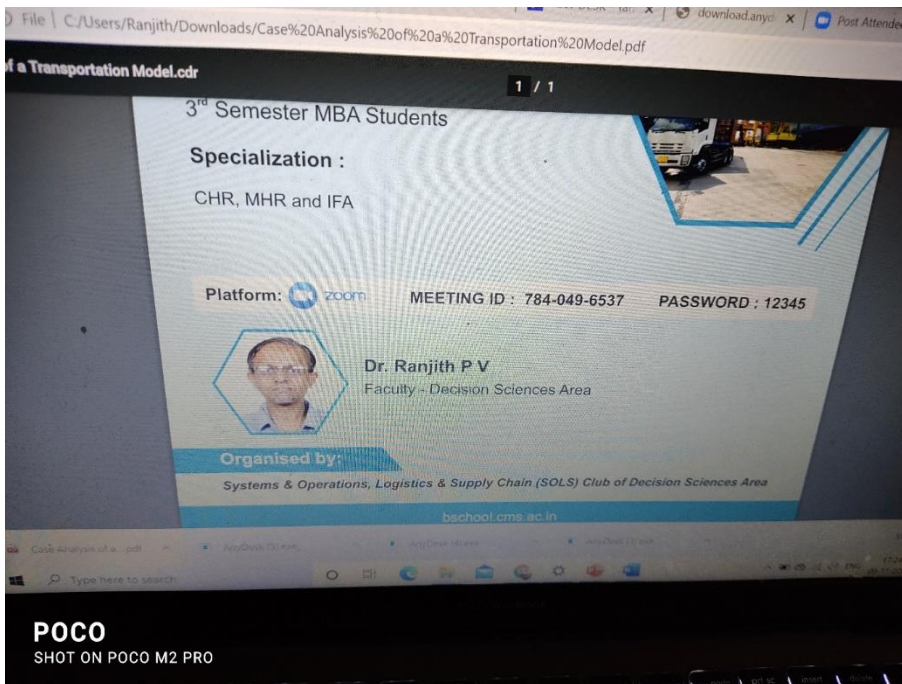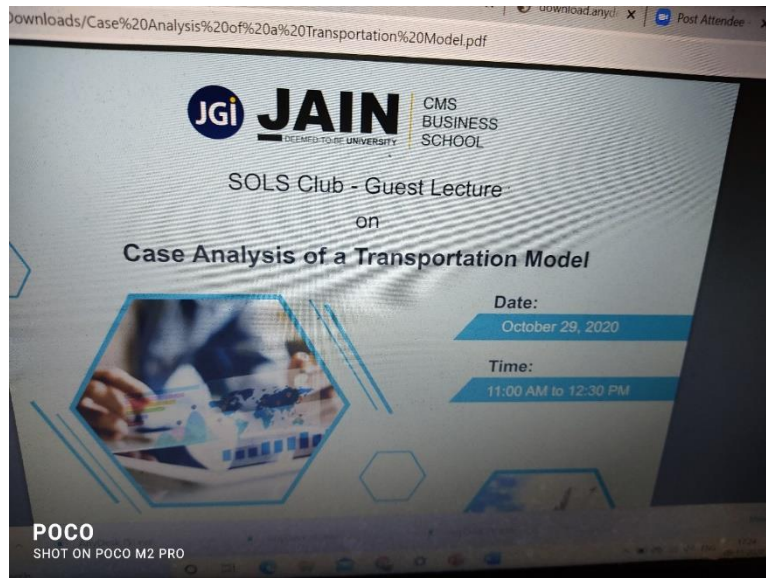*Faculty-Dr Ranjith P V, Students-IFA,MHR AND CHR*

Fig 1.2- Proposal for Hands-on training, Case study on Transportation held on October 29th 2020 (Batch and Event: 2019-21; Programme: III Semester MBA, IFA, MHR AND CHR)

Fig 1.3- Proposal for Hands-on training, Case study on Transportation held on October 29th 2020 (Batch and Event: 2019-21; Programme: III Semester MBA, IFA, MHR AND CHR
Faculty-Dr Ranjith P V, Students-IFA, MHR and CHR
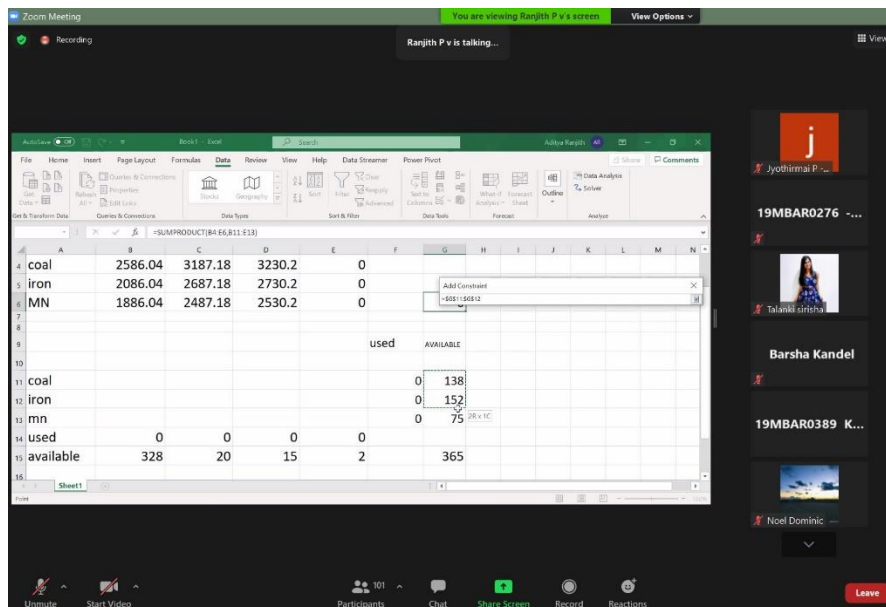

Fig 1.4- Excel based exercise based on Hands-on training, held on October 29th 2020 (Batch and Event: 2019-21; Programme: III Semester MBA, IFA, MHR AND CHR
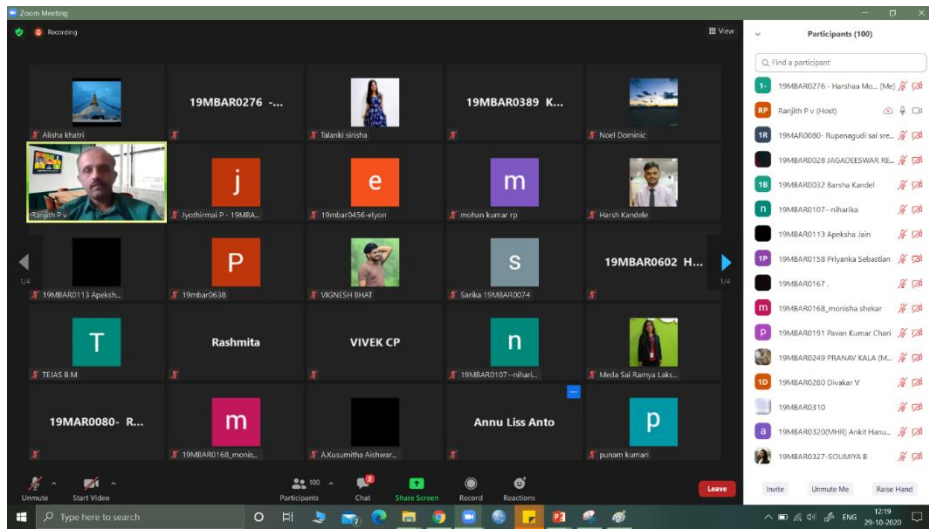*Faculty-Dr Ranjith PV, Students-IFA, MHR, CHR*

Fig 1.5- Students attending Hands-on training of case study on Transportation held on October 29th 2020
(Batch and Event: 2019-21; Programme: III Semester MBA, IFA, MHR AND CHR
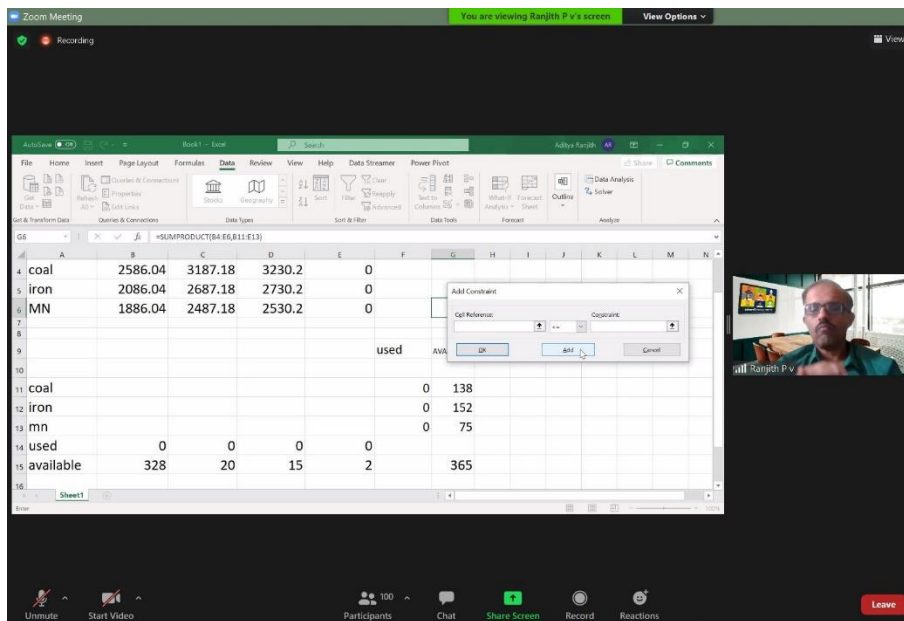*Faculty-Dr Ranjith P V, Students-IFA, MHR and CHR*

Fig 1.6- Hands-on training, Excel example of solution of Transportation problem held on October 29th 2020
(Batch and Event: 2019-21; Programme: III Semester MBA, IFA, MHR AND CHR

Faculty-Dr Ranjith P V, Students-IFA, MHR and CHR