MANIPAL UNIVERSITY JAIPUR TEACHER EMPOWERMENT CENTRE (MUJ-TEC)

A report on

2 Days Workshop
on

"OUTCOME BASED EDUCATION"

22nd to 23rd December 2022 (online mode)

DPSharma

Introduction of the Event

"Outcome-Based Education" (OBE) is the heart of the accreditation process, and over time, across the globe, OBE has started to play a crucial role in the accreditation. OBE is not only used for Accreditation but also can be used as a tool for measuring the "Quality of Education". The major components of OBE are Course Outcome (CO) and Program Outcome (PO). Depending upon how well these two parts are defined and evaluated, OBE attainment is measured.

Objective of the Event

The aim of the workshop is to facilitate and train teachers to understand the fundamentals of outcome-based education and its implementation in higher education. Manipal Teacher Empowerment Centre at Manipal University Jaipur (MUJ TEC) was established with the intent to invest in teacher training to help them grow professionally and personally. Teachers who are made to feel efficacious can participate and contribute fully to the process of achieving the institutional goals and objectives. One of the objectives is to train and equip teachers to learn and practice Outcome based education and help them to do objective assessment and evaluation of the learners. The need of outcome-based education is also very important with respect to the quality and for accreditation process like NAAC, NBA etc.

Beneficiaries of the Event

The workshop will be beneficial for all the faculty members, especially freshers and newly joined faculties of MUJ. HoD's are requested to encourage the participation of newly joined faculty members of their respective departments.

Details of the Guests:

Dr. Shankaranarayana Bhat
Associate Director (Faculty Development &Welfare), Faculty Member,
Dept. of E&C Engineering, M.I.T, Manipal.

Mr. Gaurav Prasad, Assistant Professor, Department of Information Technology, Manipal Institute of Technology Bengaluru (MIT).

Flyer of Event:

Programme Schedule

Date/Time	Topic	Resource Person
22nd Dec 2022 11:00AM-01:00PM	Fundamentals of OBE	Dr. Shankaranarayana Bhat
23rd Dec 2022 11:00AM-01:00PM	Analytics of OBE	Mr. Gaurav Prasad

Organizing Committee

Chief Patron
Mr. S. Vaitheeswaran
Chairperson, Manipal University Jaipur

Patron
Prof. (Dr.) G. K. Prabhu
President, Manipal University Jaipur

Co-Patrons
Prof. (Dr.) N. N. Sharma
Pro-President, Manipal University Jaipur
Cmde (Dr.) Jawahar M Jangir
Provost, Manipal University Jaipur

Workshop Advisors
Prof. (Dr.) D P Sharma
Director, MUJ-TEC, Manipal University Jaipur
Prof. (Dr.) Bhavna Tripathi
Director, SCCE, Manipal University Jaipur

Workshop Conveners
Dr. Suyesha Singh
Dept. of Psychology, SHSS
Dr. Anjalee Narayan
Dept. of Arts (Liberal Arts), SHSS
Mr. Sourav Kumar Das
Dept. of Civil Engineering, FOE

Day wise Report:
Day-1: 22nd December 2022

Dr S N Bhat in his session demonstrated the background of OBE from its inception to its importance in the present education system. He discussed what are the different education reforms have taken place in the last two decades and how the focus of the students has been shifted to outcome-based education system rather than the conventional input based education system. He also discussed in detail the roadmap on an effective implementation of OBE through the change in the teaching pedagogy. He emphasized that the teaching pedagogy for an effective OBE must have a "Design down – Deliver up" approach where the teacher must identify the expected outcome from the students after the course is completed. Once identified the entire course module must be designed to get the maximum outcome through various in between methodologies like periodic assessment, formal and informal questionnaire survey, discussion on the opportunity of the course, etc. He mentioned that by following these methodologies both the teacher and the student will get the desired outcome and feel proud for an effective implementation of OBE. Finally, while designing the course outcome (CO) he illustrated the audience how a CO must be framed after considering the mission and vision of the university, Programme Specific Outcome (PSO) and Programme Outcome (PO). At last, the session concluded with Q&A session and vote of thanks.
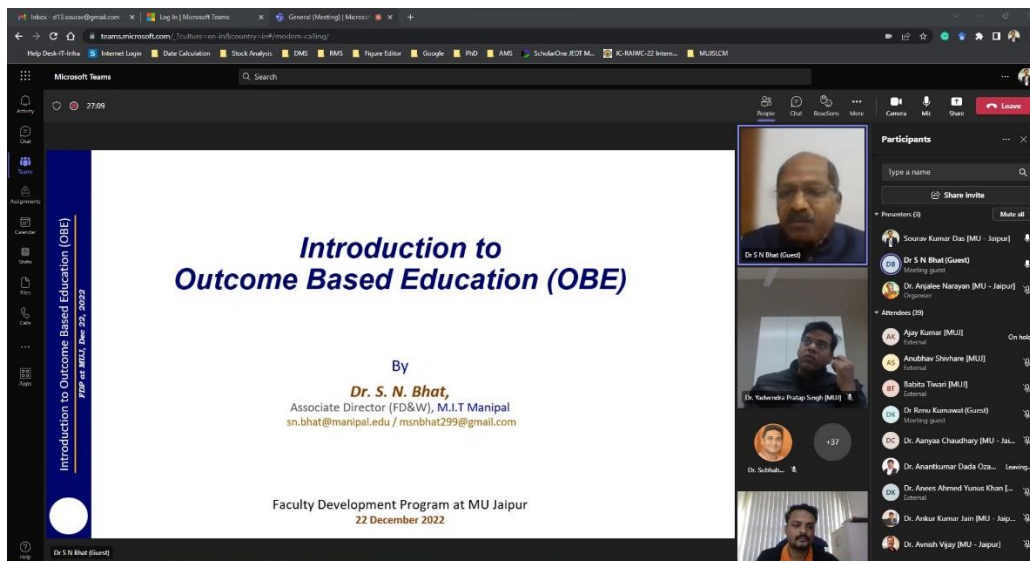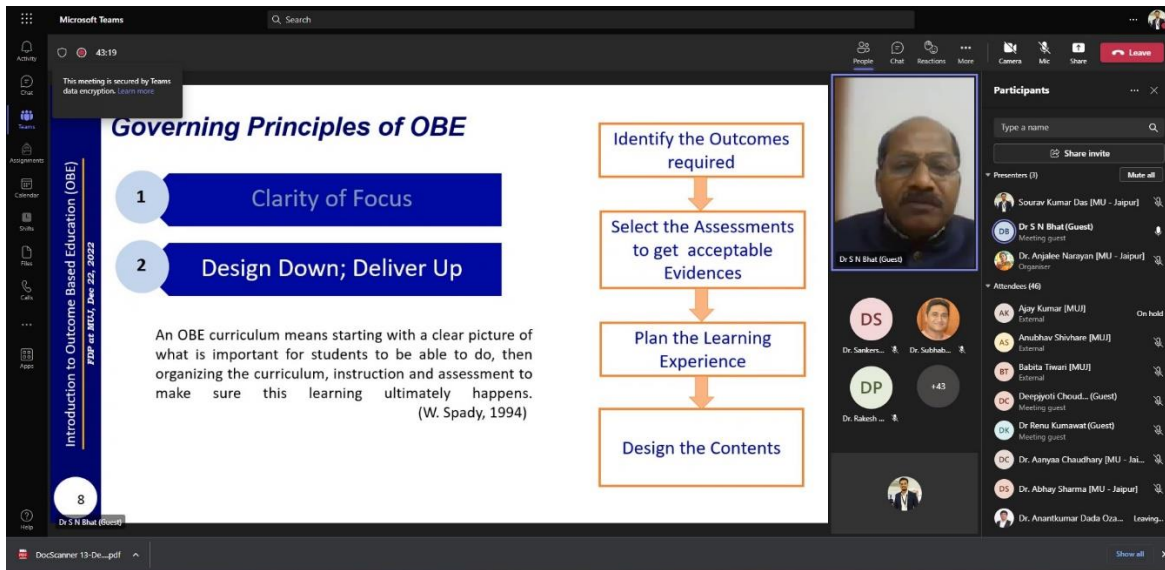

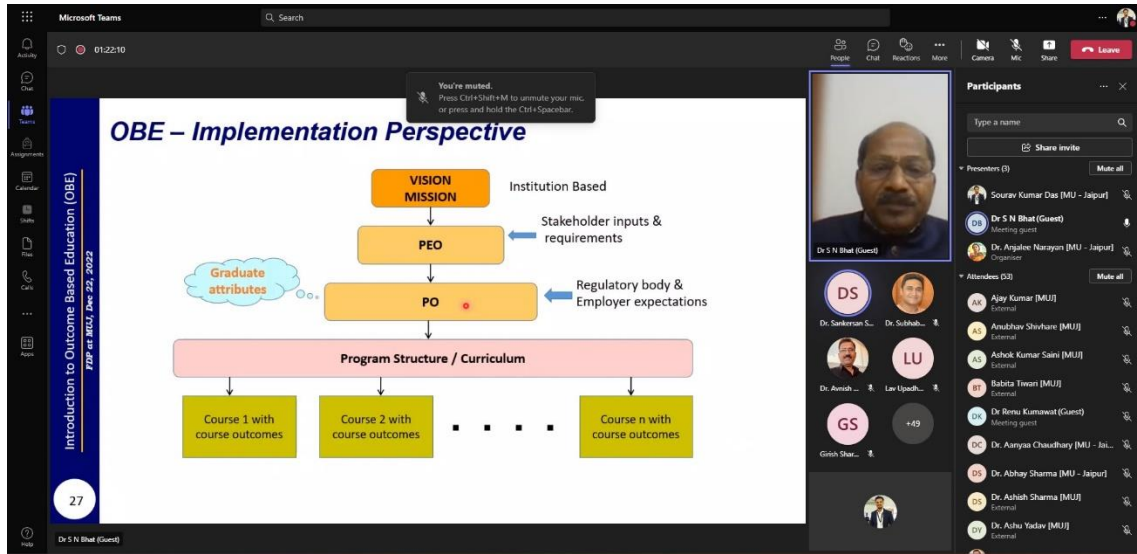Picture 1: Dr. S.N. Bhat interacting with the participants

Picture 2: Dr. S.N. Bhat explaining the importance of OBE

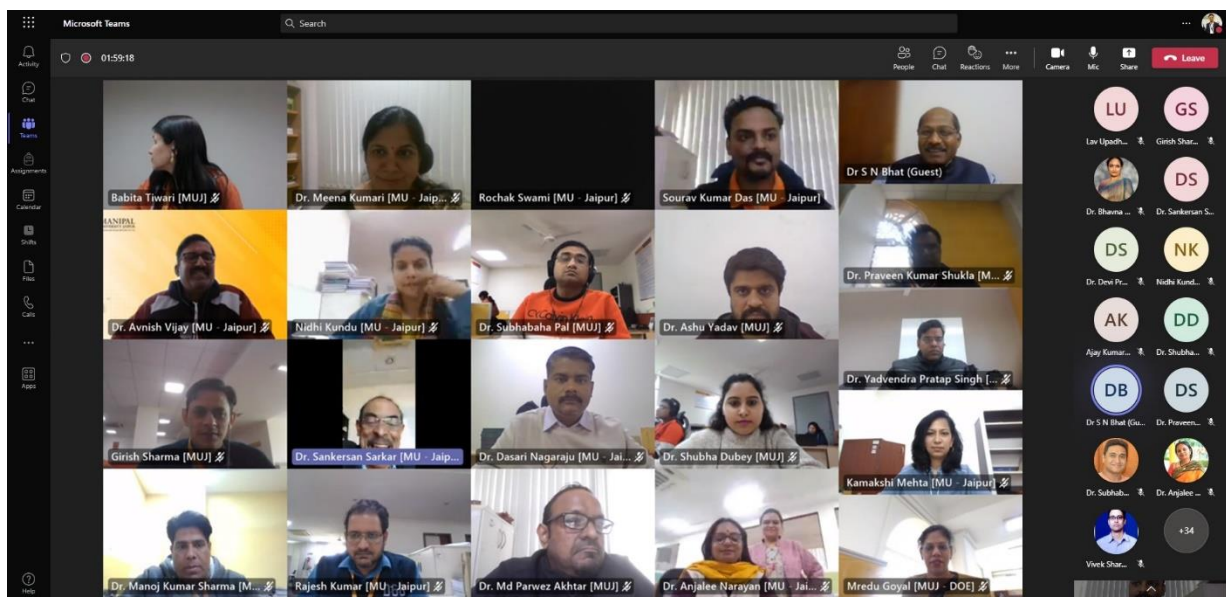Picture 3: Dr. S.N. Bhat explaining the principles OBE

Picture 4: Dr. S.N. Bhat explaining about implementation of OBE

Picture 5: Group picture of participants with Dr. S.N. Bhat

Day-2: 23rd December 2022

On the day-2 of FDP Mr. Gaurav Prasad commenced program with discussion on PO and PSOs. The OBE framework constituting vision, mission, CO, PO and PSO was discussed. Development of frameworkhow in top-down approach right from vision to Questions was briefed. The evaluation process starting from framing of questions till mapping them to CO and their connection with PO and PSO was explained. Further, relevance of vision and mission was outlined. Difference between traditional approach and OBE based approach was highlighted by Mr. Gaurav Prasad.

Mr. Prasad emphasized on the need andrelevance of proper lecture plan. He also explained the advantages of fields like mode of delivery. This was followed by discussion on framing questions and mapping of questions to CO. He also explained the advantages of fields like mode of delivery. This was followed by discussion on framing questions and mapping of questions to CO. The relevance and identification of cognitivelevels of the questions and mapping it into the CO's cognitive level was discussed. Examples for same were discussed later. Need for updating the course content or addition of course for program and its CO-PO mapping was discussed with the justification. Basics and relevance of CO-PO mapping, articulation matrix was discussed followed by thedegree of correlation between the CO-PO and some examples were shared to understand them in a better way. Mr. Prasad explained in detail the tool used for calculation of course outcome and then participants were requested to work on the same. Next, different sheets of the workbook to calculatethe CO attainment were discussed. The relevance of colouring scheme used in the sheet was highlighted. Mr. Prasad emphasized on the points to kept in mind while providing inputs in the sheet. The discussion was not only restricted to the working of sheets, but it also included detail explanation of formulas in the sheet. The relevance of threshold, number of students and number of questions and their impact on the attainment was also discussed. The technique to calculateoverall CO attainment was also explained. The method for directly calculating PO and PSO attainment was also discussed. Brief discussion was conducted on indirect calculation of PO and PSO, which includes taking the feedback from stockholders.

This was followed by number of queries from the participants in the Q&A session. The session ended with a formal vote of thanks to the speaker and the participants. The feedback was taken thereafter.
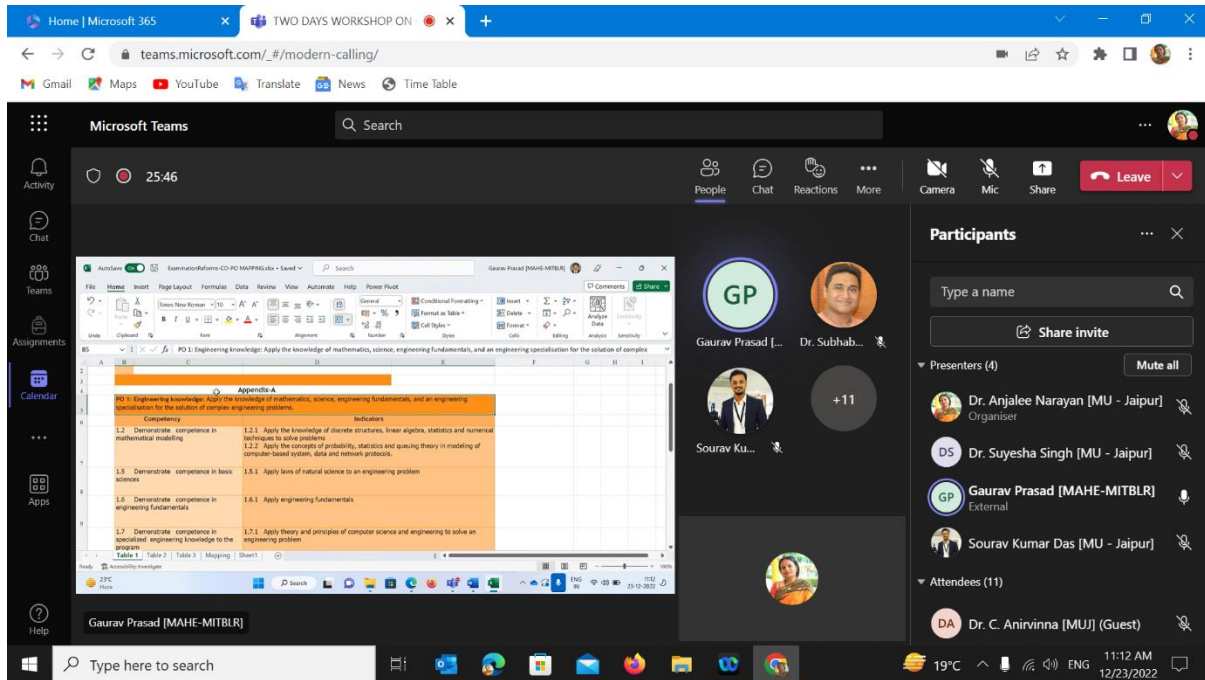
Picture 1: Mr. Gaurav Prasad explaining about competency and indicators in framing course objectives and outcomes
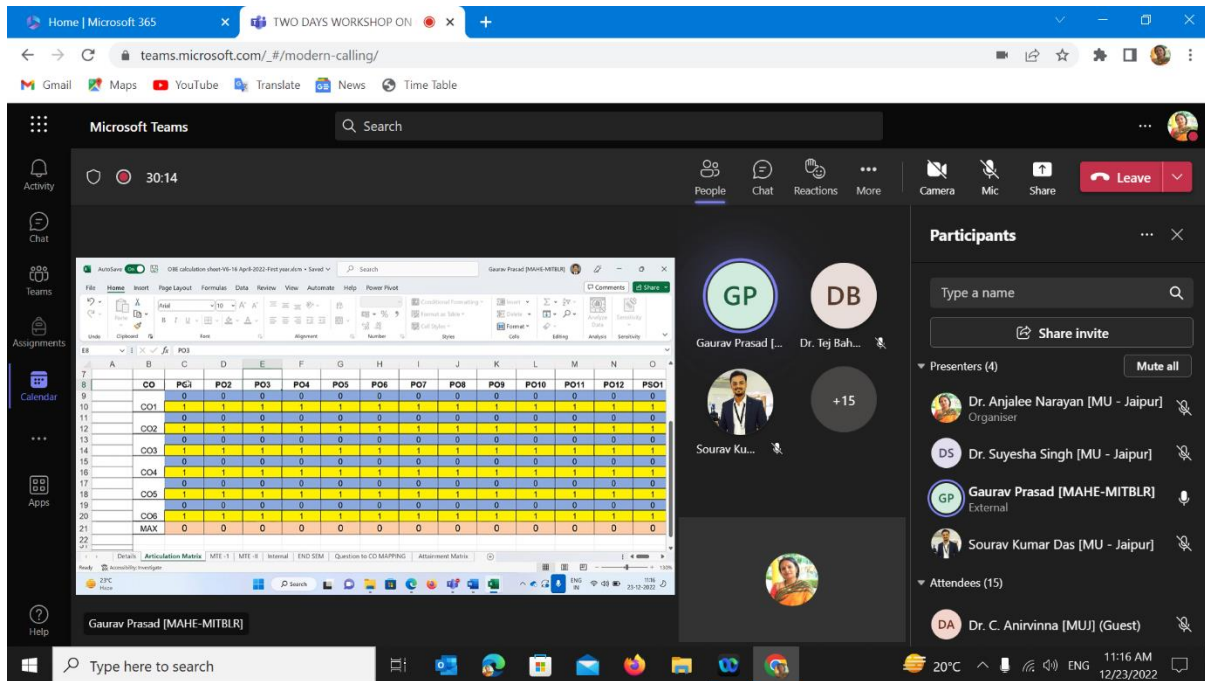
Picture 2: Mr. Gaurav Prasad demonstrating CO-PO Mapping in the OBE matrix
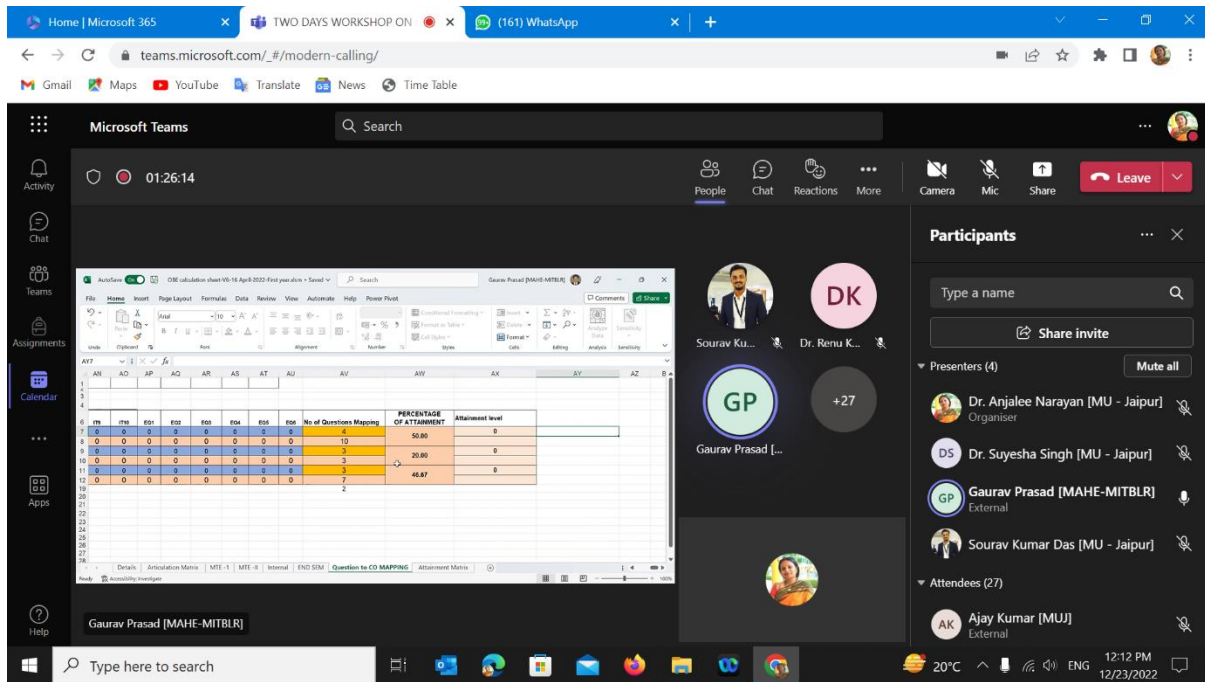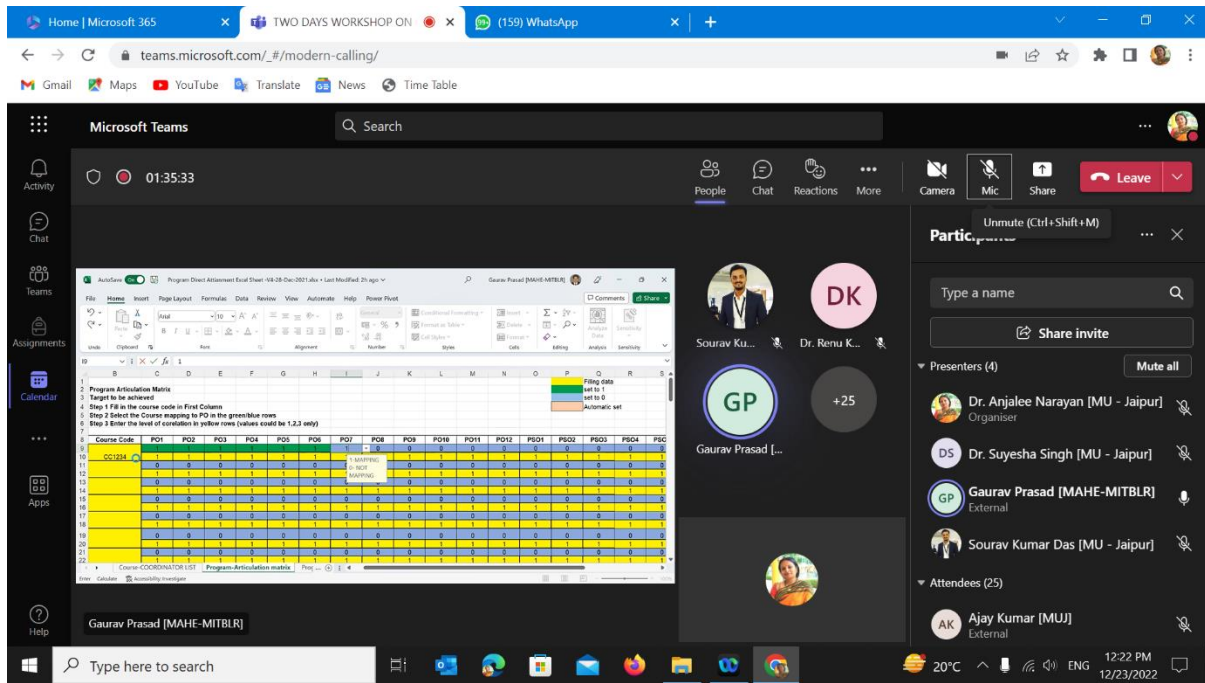
Picture 3: Mr. Gaurav Prasad demonstrating deriving the attainment levels
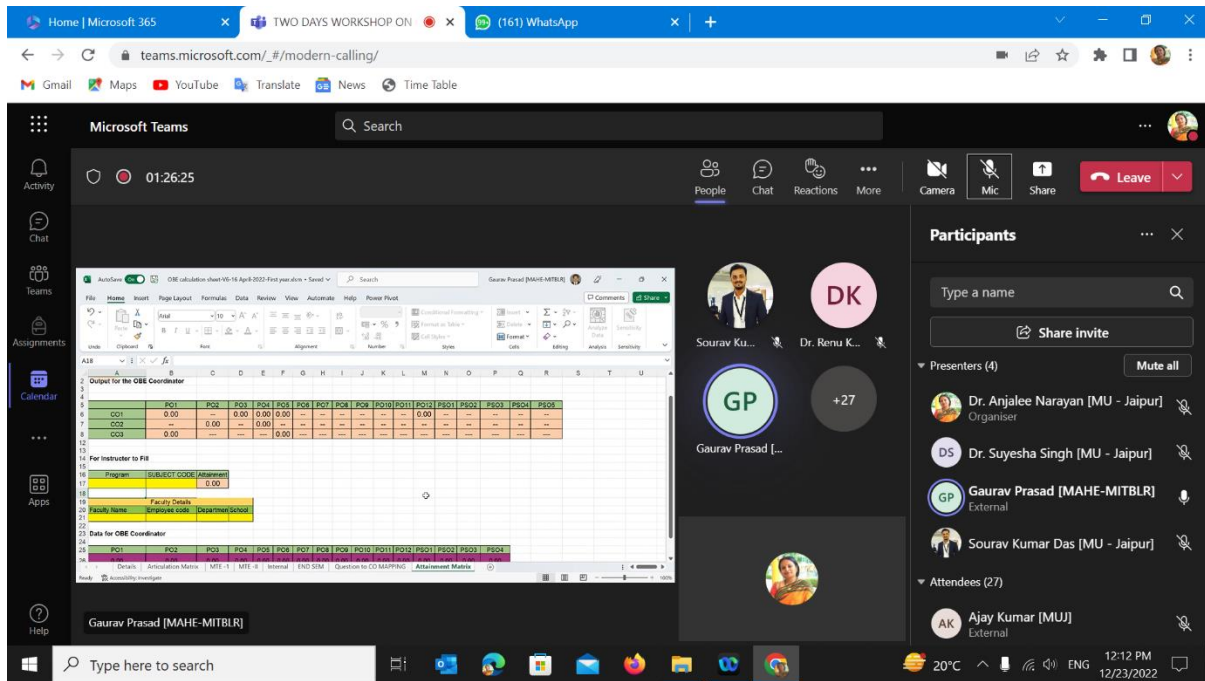
Picture 4: Mr. Gaurav Prasad demonstrating deriving the attainment levels

Picture 5: Mr. Gaurav Prasad demonstrating CO-PO Mapping in the OBE matrix
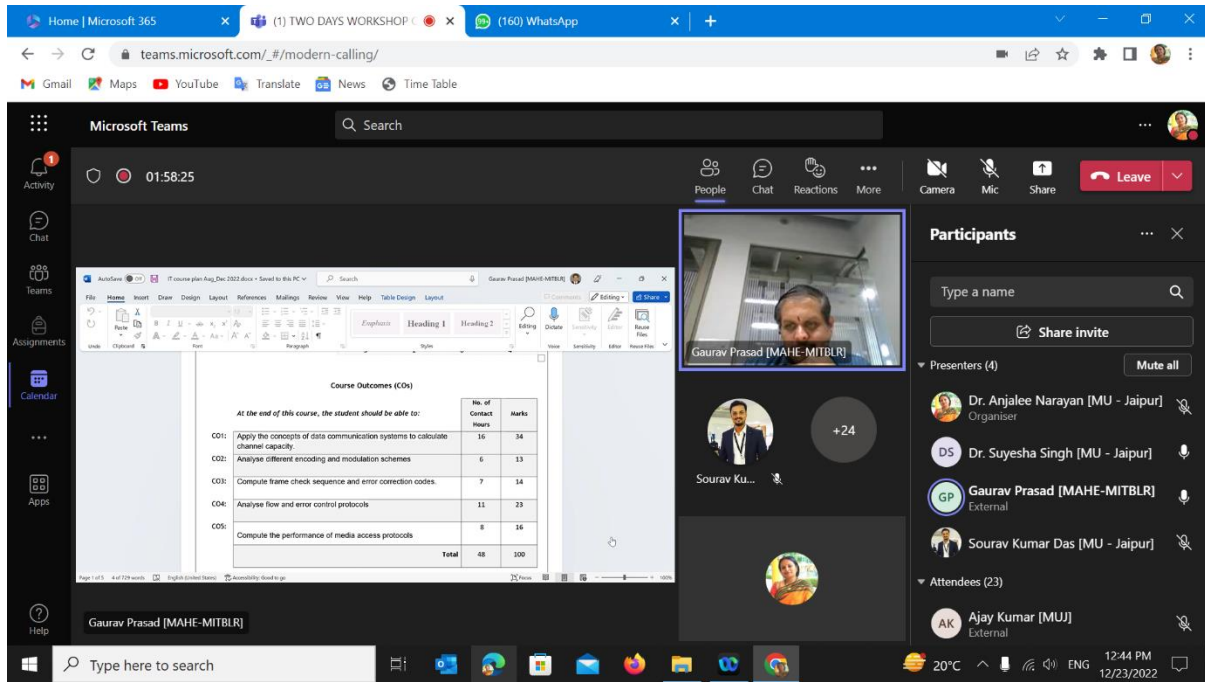
Picture 6: Mr. Gaurav Prasad explaining how to frame course outcomes
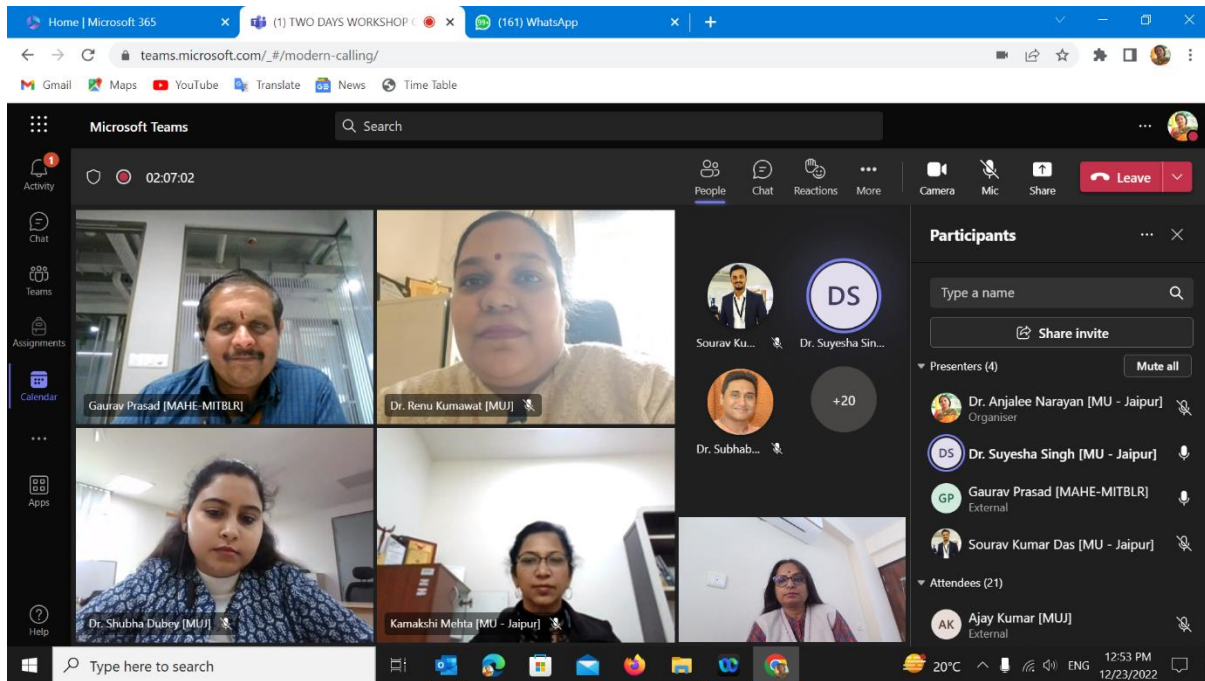
Picture 7: Group picture of Mr. Gaurav Prasad with participants
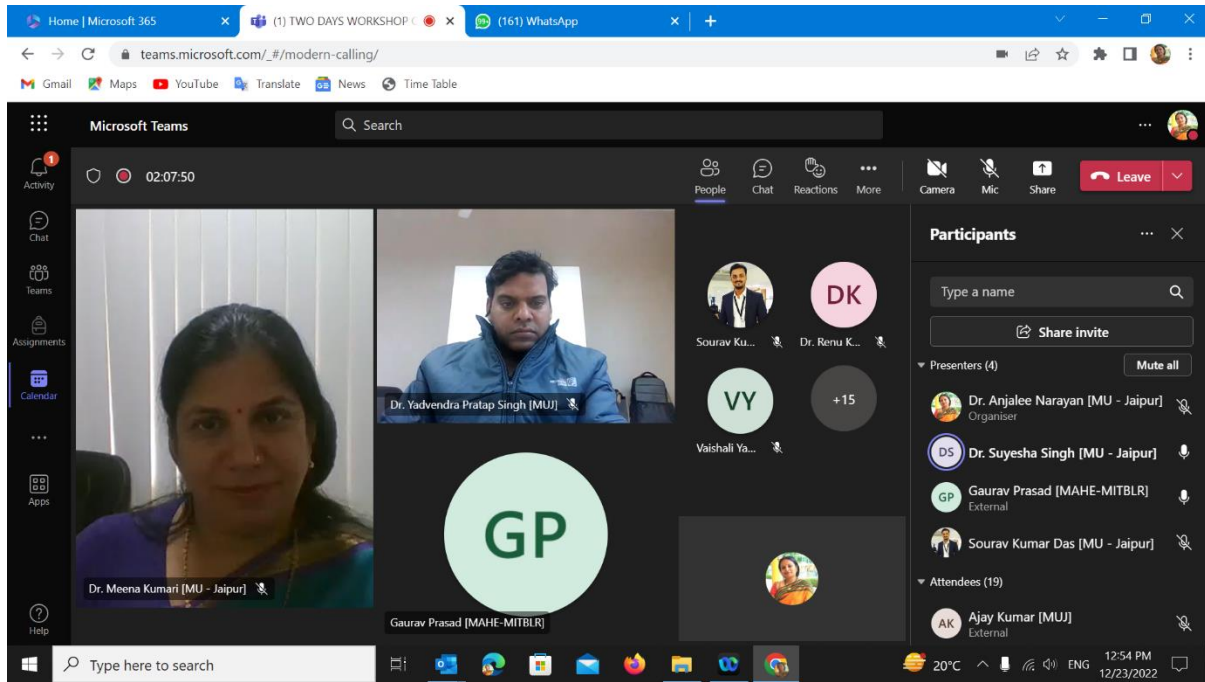
Picture 8: Mr. Gaurav Prasad answering the queries of the participants

List of attendees:

Employee Name	Employee code
Rochak Swami	MUJ1392
Dr. Bhavna Tripathi	MUJ0796
Girish Sharma	MUJ1394
Dr. Anantkumar Dada Ozarkar	MUJ0160
Dr. Umesh Solanki	MUJ0686
Nidhi Kundu	MUJ1393
Dr. Yadvendra Pratap Singh	MUJ1417
Babita Tiwari	MUJ1447
Dr. Purvi Pareek	MUJ1093
Dr Renu Kumawat	MUJ0384
Dr. Avnish Vijay	MUJ1359
Dr. Anees Ahmed Yunus Khan	MUJ0860
Vivek Sharma [MU - Jaipur]	MUJ1090
Prashant Hemrajani [MU - Jaipur]	MUJ1039

Jitendra Singh Yadav [MU - Jaipur]	MUJ1089
Dr. Dinesh Kumar Saini [MU - Jaipur]	MUJ1103
Dr. Usha Choudhary [MUJ]	MUJ1386
Dr. Ankur Kumar Jain [MU - Jaipur]	MUJ1471
Dr. Geeta Rani [MU - Jaipur] (Guest)	MUJ0968
Neha Janu [MUJ]	MUJ1462
Dr. Sourabh Singh Verma [MUJ]	MUJ1065
Dr. Deepak Panwar [MUJ]	MUJ1158
Vijay Shankar Sharma [MUJ]	MUJ1169
Dr. Praveen Kumar Shukla [MUJ]	MUJ1405
Deepjyoti Choudhury (Guest)	MUJ1443
Dr. Abhay Sharma [MU - Jaipur]	MUJ1361
Dr. Dasari Nagaraju [MU - Jaipur]	MUJ0040
Dr. Rishav Dubey [MU - Jaipur]	MUJ1388
Lav Upadhyay [MU - Jaipur]	MUJ1431
Sunil Kumar Patel [MU - Jaipur]	MUJ1430
Dr. Pratistha Mathur [MU - Jaipur]	MUJ0706
Mr. Dharmesh Yadav [MUJ]	MUJ0498
Dr. Ghanshyam Raghuwanshi [MUJ]	MUJ0961
Lal Pratap Verma [MU - Jaipur]	MUJ1163
Dr. Ashu Yadav [MUJ]	MUJ0358
Monu Bhagat (Guest)	MUJ1427
Jay Prakash Singh [MU - Jaipur]	MUJ1452
Vivek Kumar [MUJ]	MUJ1433
Dr. Md Parwez Akhtar [MUJ]	MUJ0878
Mredu Goyal [MUJ - DOE]	MUJ1216
Himanshu Priyadarshi [MU - Jaipur]	MUJ0291
Dr. Priya Soni [MUJ]	MUJ1465
Dr. Umesh Solanki [MU - Jaipur]	MUJ0686
Anil Kumar [MU - Jaipur]	MUJ1183
Dr. Subhabaha Pal [MUJ]	MUJ1079
Kavita Jhajharia [MU - Jaipur]	MUJ0724
Dr. Jagriti Singh [MU - Jaipur]	MUJ1411
Dr. Harsh Pandey [MU - Jaipur]	MUJ0895
Dr. Gaurav Sancheti [MU - Jaipur]	MUJ0572
Dr. Manisha Sharma [MU - Jaipur]	MUJ0538
Dr. Sumit Taneja [MU - Jaipur]	MUJ0954
Deepak Panwar [MU - Jaipur]	MUJ1158
Dr. Amit Chaurasia [MU - Jaipur]	MUJ1156

Kuntal Gaur [MU - Jaipur]	MUJ0259
Dr. Subhabaha Pal [MU - Jaipur]	MUJ1079
Rajesh Kumar [MUJ]	MUJ1437
Dr. Rakesh Premi [MU - Jaipur]	MUJCON065
Dr. Shubha Dubey [MUJ]	MUJ1463
Kamakshi Mehta [MU - Jaipur]	MUJ1476
Dr. C. Anirvinna [MUJ] (Guest)	MUJ0195
Dr. Sankersan Sarkar [MU - Jaipur]	MUJ0749
Dr. Umesh Solanki [MU - Jaipur] (Guest)	MUJ0686
Sagar Gupta [MU - Jaipur]	MUJ0495
Dr. Tej Bahadur [MUJ]	MUJ0575
Dr. Meena Kumari [MU - Jaipur]	MUJ0446
Dr. Md. Parwez Akhtar [MU - Jaipur]	MUJ0878
Dr. Aanyaa Chaudhary [MU - Jaipur]	MUJ0590
Nandana Chakinala [MU - Jaipur]	MUJ0689
Deepjyoti Choudhury [MUJ]	MUJ1443
Dr. Usha Choudhary [MU - Jaipur]	MUJ1386
Dr. Renu Kumawat [MUJ]	MUJ0384
Nidhi Kundu [MUJ]	MUJ1393
Dr. Harshavardhana BG [MUJ]	MUJ0480
Anubhav Shivhare [MUJ]	MUJ1446
Ashok Kumar Saini [MUJ]	MUJ1451
Sanchit Anand [MU - Jaipur]	MUJ0506
Dr. Anand Gupta Chakinala [MU - Jaipur]	MUJ0568
Shishir Singh Chauhan [MUJ]	MUJ1421
Dr. Yadvendra Pratap Singh [MUJ]	MUJ1417

Link of the event on the MUJ website:

https://jaipur.manipal.edu/muj/academics/teacher-empowerment-centre.html

Feedback:

Feedback Form for the FDP-OBE (22nd to 23rd Dec-2022)

10

Responses

01:00

Average time to complete

Closed

Status

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1. Name

10

Responses

2. Emp ID

10
Responses

3. Resource person's Teaching Methodology:

🔵 Excellent	5
🟠 Very Good	6
🟢 Good	3
🔴 Average	0
🟣 Poor	1
🟤 Very poor	0
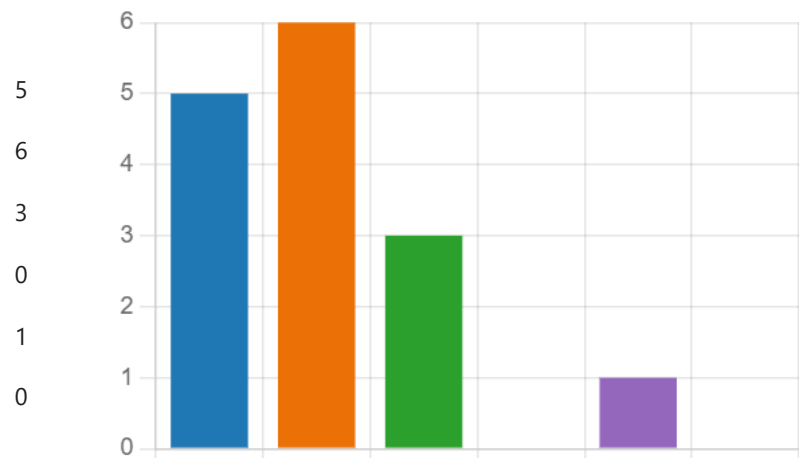
4. Resource person's depth of understanding of Topic:

🔵	Excellent	3
🟠	Very Good	8
🟢	Good	3
🔴	Average	0
🟣	Poor	1

5. Topics were as per expectation:

🔵	Excellent	3
🟠	Very Good	5
🟢	Good	6
🔴	Average	0
🟣	Poor	1

6. Program fulfilled the theme of the FDP:

🔵	Excellent	4
🟠	Very Good	8
🟢	Good	2
🔴	Average	0
🟣	Poor	1
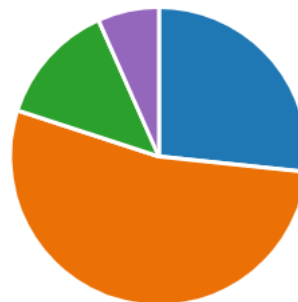
7. Overall Program Rating

🔵	Excellent	4
🟠	Very Good	6
🟢	Good	4
🔴	Average	0
🟣	Poor	1
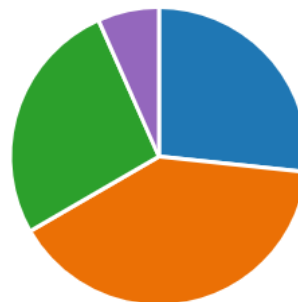
8. Overall Remarks

10
Responses

"*It was informative* "

"*Good and helpful*"