



A FIVE-DAY FACULTY DEVELOPMENT PROGRAM ON

UNDERSTANDING AND IMPLEMENTATION OF OBE ATTAINMENT CALCULATION IN PROFESSIONAL EDUCATION


DURATION: 12 - 16 JULY, 2021

JOINTLY ORGANIZED BY: MUJ-TEC AND TEAM HR
MANIPAL UNIVERSITY JAIPUR

Flyer of Event:

About Resource Persons

Mr Gaurav Prasad has done his Bachelor degree from VTU University Karnataka and M. Tech from National Institute of Technology Karnataka, Surathkal. He is having 2 years of experience in industry and 10 years of teaching experience and serving Manipal university Jaipur since 2016. The OBE attainment tool which is been used at Manipal university Jaipur is designed and developed by him which includes both CO and PO attainment calculation. He has successfully completed courses on OBE offered by NPTEL. Currently he is also associated with Directorate of MUJ-TEC.

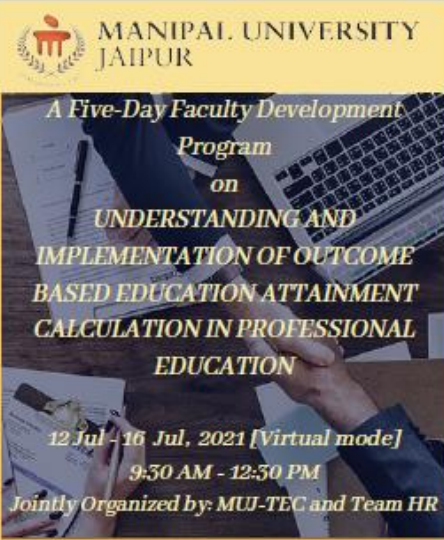


Mr Gaurav Prasad
Assistant Professor
Department of Computer and Communication

Objective of FDP

Upon successful completion of the FDP, the participants would be able to

- Identify the Relevance and need for preparing the course Handout.
- Identifying the components of the course handout.
- Preparation of Question Papers for different evaluation components.
- Mapping between CO,PO,PSO and Questions.
- Establish the correlation between CO and PO.
- Demonstrate the working of the OBE attainment calculation Tool.
- Identify the process of calculating CO, Direct PO ,Indirect PO, and Overall PO attainment.
- Identify the misconception and common mistakes during data entry and mapping while using the tool.
- Analysis of the CO,PO,PSO attainment of the course and the program.
- Identify the role, work and responsibilities carried out by OBE coordinators.



MANIPAL UNIVERSITY JAIPUR

A Five-Day Faculty Development Program on **UNDERSTANDING AND IMPLEMENTATION OF OUTCOME BASED EDUCATION ATTAINMENT CALCULATION IN PROFESSIONAL EDUCATION**

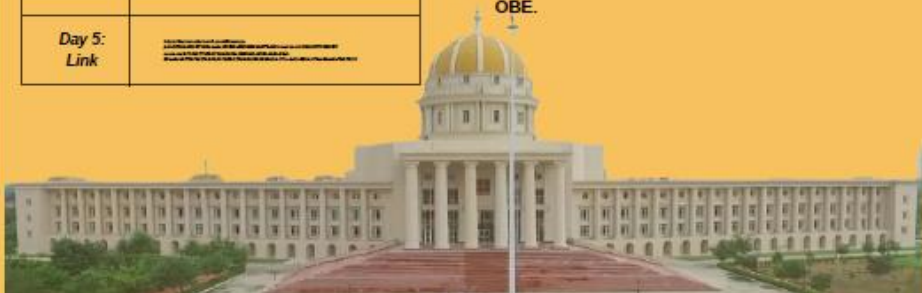
12 Jul -16 Jul, 2021 [Virtual mode]
9:50 AM - 12:50 PM
Jointly Organized by: MUJ-TEC and Team HR

Target Audience

Faculty Members who have teaching experience in higher education and interest in continuing teaching career path and Willing to share knowledge and train other colleagues on OBE.

About MUJ

Manipal University Jaipur (MUJ), India is a co-educational, residential, private research university located in the city of Jaipur in Rajasthan, India. It is the fifth university established by Manipal Global Education Services. Courses and programs offered by the university are in the fields of Engineering, Architecture, Interior Design, Fashion Design, Fine Arts, Hospitality, Humanities, Journalism and Mass Communication, Basic Sciences, Law, Commerce, Computer Applications, and Management. The campus of the institute has a total land area of 122 acres, with the constructed area of 2.47 million sq ft.; it was the first university in Rajasthan to be accredited as A+ (3.28) grade by NAAC. MUJ boasts of best-in-class infrastructure, including state-of-the-art research facilities and a modern, digital library. In line with Manipal University's legacy of providing quality education to its students, the campus uses the latest in technology to impart education.





Program Schedule

Day 1: 9:30 AM- 12:30PM	<i>Flow of the FDP, Brief Idea about Course Handout and sheets</i>
Day 2: 9:30 AM- 12:30PM	<i>Discussion on Course Handout and CO attainment Sheet</i>
Day 3: 9:30 AM- 12:30PM	<i>CO attainment sheet practice and Indirect PO attainment Sheet</i>
Day 4: 9:30 AM- 12:30PM	<i>Indirect attainment sheet practice and Direct Attainment Sheet</i>
Day 5: 9:30 AM- 12:30PM	<i>Overall Attainment Sheet Q/A, Quiz and Feedback</i>

Organizing Committee

Chief Patrons

Prof. (Dr.) K. Ramnarayan
Chairperson, Manipal University Jaipur
Prof. (Dr.) G. K. Prabhu
President, Manipal University Jaipur
Prof. (Dr.) N. N. Sharma
Pro-President, Manipal University Jaipur
Prof. (Dr.) Jagannath Korody
Dean, FOE, Manipal University Jaipur
Prof. (Dr.) Rajveer Singh Shekhawat
Provost, Manipal University Jaipur

Patron

Prof. (Dr.) D P Sharma
Director, MUJ TEC, Manipal University Jaipur

FDP Organizers

Mr Gaurav Prasad
Assistant Professor, Department of CCE
Ms Kuntal Gaur
Assistant Professor, Department of BCA
Mr Saurabh Narayan
HR Operations, Human Resources



Day wise Report:

Day-1: 12th July, 2021.

Event Coordinators: Mr. Gaurav Prasad, Mrs. Kuntal Gaur

MUJ-Tec and Team Hr jointly organised an FDP on ‘Understanding and implementation of OBE attainment calculation in professional education’. The program commenced with brief introduction of FDP and welcoming of guest by Dr. Suyesha Singh. This was followed by “Saraswati Vandana” by Dr. Anjali Narayanna. After this, Dr. G.K. Prabhu, President MUJ highlighted and stressed upon importance of such FDPs. He shared with the gathering need of mastering of tools used for online teaching, adoption of new techniques and importance of OBE calculation. His talk was followed by address of Dr. R.S. Shekhawat, Provost MUJ. Dr. Shekhawat shared insights on OBE in academics and its importance. Director MUJ Tec, Dr. D.P. Sharma then extended his sincere thanks to President and Provost for their valuable inputs and inaugurating the program. Dr. Sharma then gave brief introduction of the resource person for FDP, Mr. Gaurav Prasad.

Mr. Gaurav then started the session with introduction of basic concepts of CO, PO and PSO. He then gave brief overview of different tools used. To assess the knowledge of the participants about OBE, a quiz was taken. He also emphasized the importance of course handout and discussed about the need of lecture plan. Discussion on different components of course handout including the Articulation Matrix, Attainment Matrix and the lecture Plan was conducted. The session ended with the attendance and feedback of the participants. Participants were requested to bring course handout for the next session.



Fig 1: Address by President

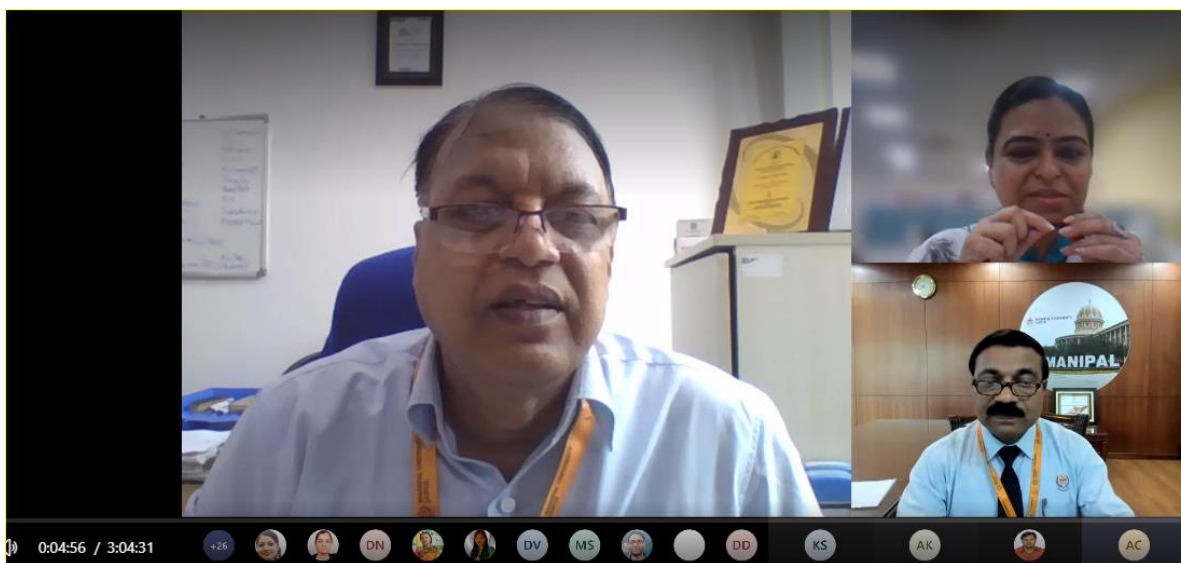


Fig 2: Address by Provost

Day-2: 13th July, 2021.

Event Coordinators: Mr. Gaurav Prasad, Mrs. Kuntal Gaur.

On the day-2 of FDP jointly organised by MUJ-Tec and Team Hr on Understanding and implementation of OBE attainment calculation in professional education. 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 framework how 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. This was followed by explanation of Blooms taxonomy. Examples were given and discussion was carried out on how to use Blooms taxonomy while writing outcomes. Three Important features of a well-written Instructional Objectives (A. The performance component B. The condition component C. The criterion component)



were briefed. Examples of the same were discussed further. The session ended with the attendance and feedback of the participants.

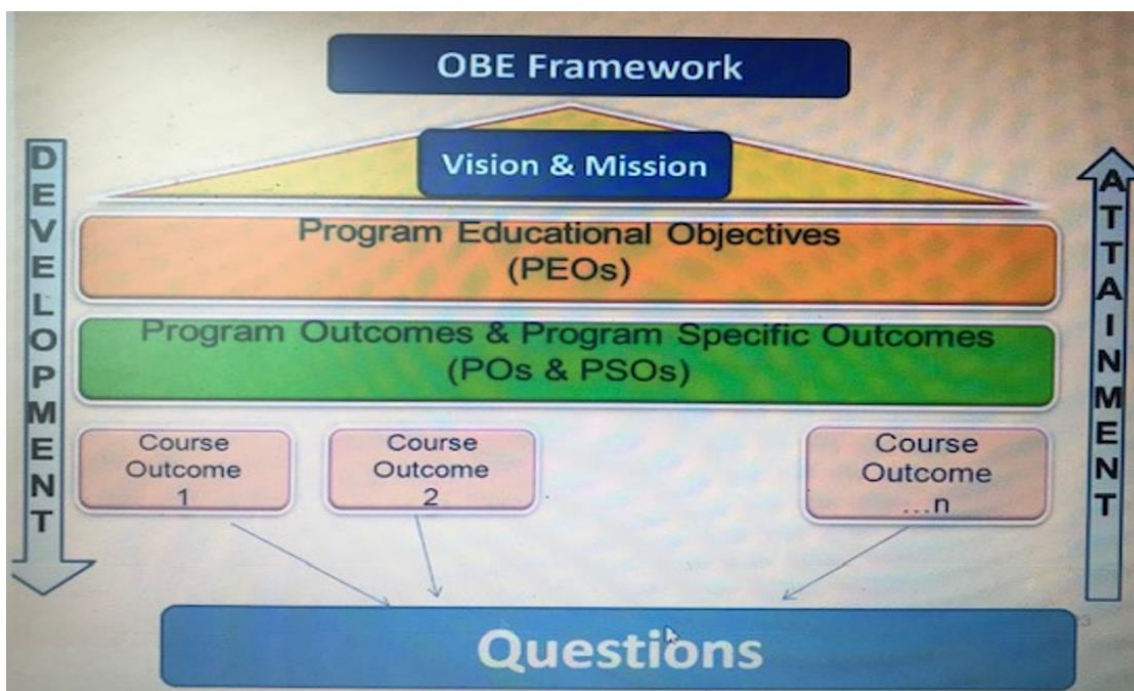


Fig 3: Screenshot of framework of OBE

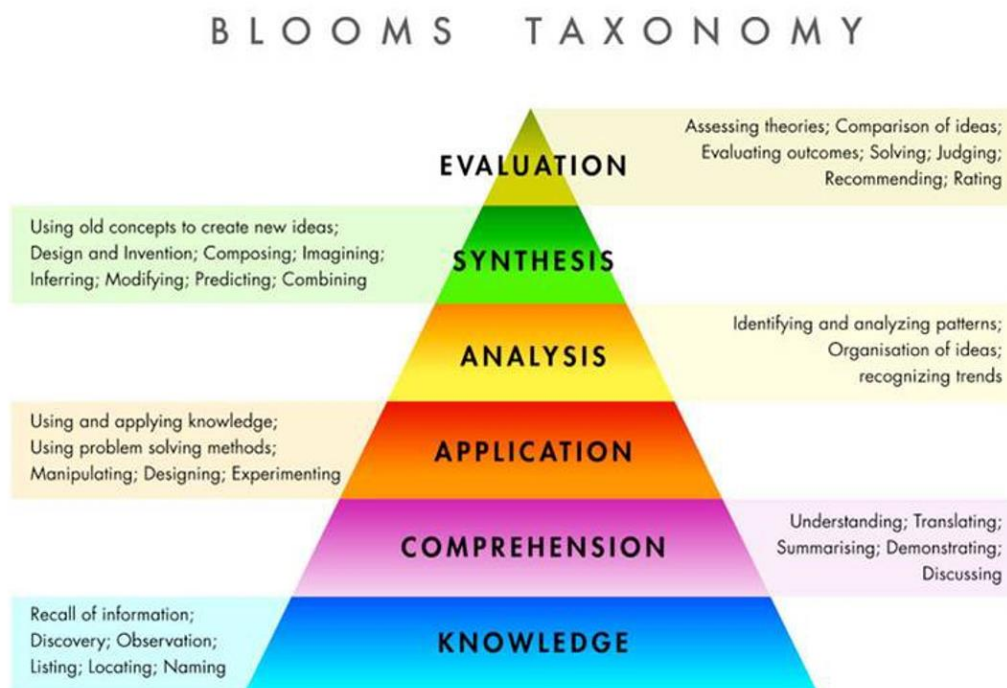


Fig 4: Screenshot of Blooms Taxonomy

Day-3: 14th July, 2021

Event Coordinators: Mr. Gaurav Prasad, Mrs. Kuntal Gaur

Dr. D.P. Sharma began day 3 of the FDP jointly organised by MUJ-Tec and Team Hr on Understanding and implementation of OBE attainment calculation in professional education. He highlighted the relevance and importance of the FDP in context with current situation and in general. He also requested participants to give their feedback. Mr. Gaurav Prasad then commenced the session by revisiting the topics discussed on the previous day (13th July 2021). Next, components of the course handout and their relevance was discussed. Mr. Prasad emphasised on the need and relevance 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. The relevance and identification of cognitive levels 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 the degree of correlation between the CO-PO and some example were shared to understand them in a better way.

The session ended with Q&A, attendance, and feedback of the participants. All the OBE coordinators were requested to share CO attainment sheet of few courses and program attainment sheet of their respective departments which is to be used in the next session.

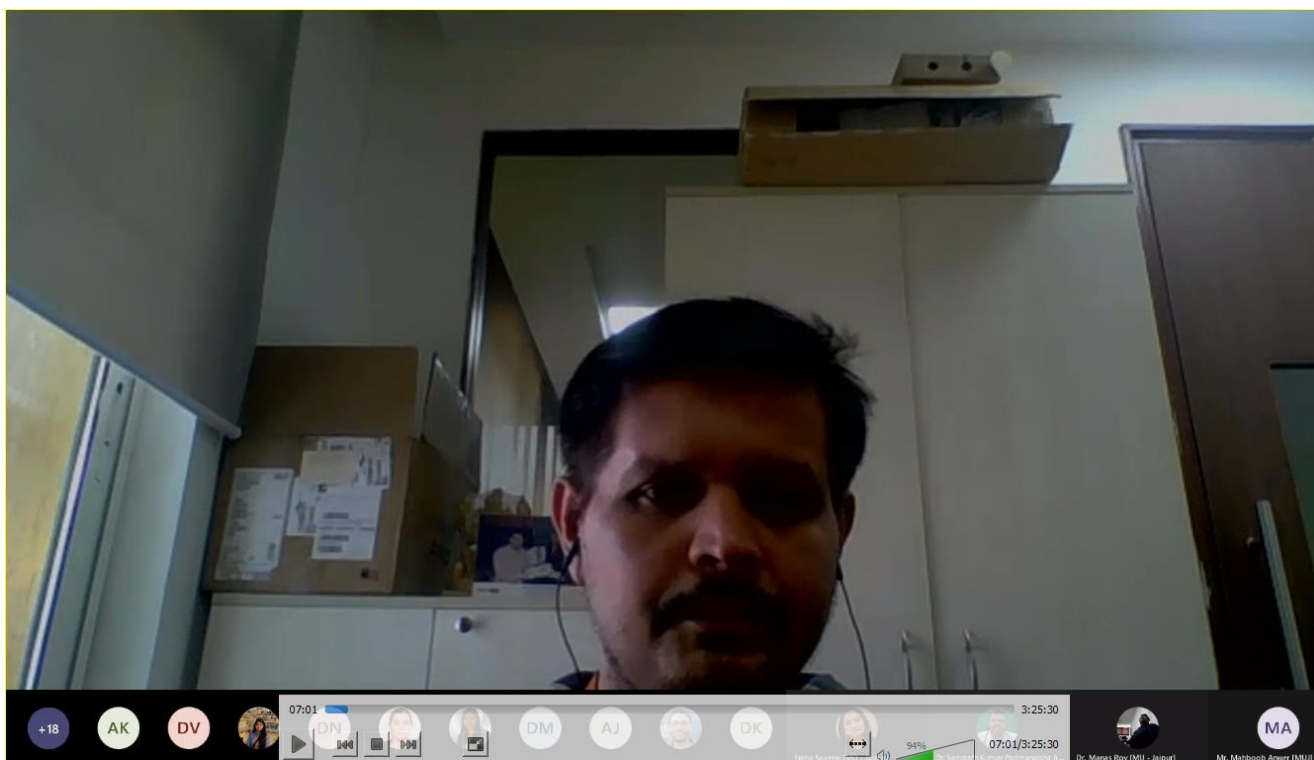


Fig 5: Mr. Gaurav Prasad taking the session

AR 1505.docx [Compatibility Mode] - Word

TABLE TOOLS

FILE HOME INSERT DESIGN PAGE LAYOUT REFERENCES MAILINGS REVIEW VIEW OFFICE REMOTE DESIGN LAYOUT

Gaurav Prasad [MU - Jaipur]

Clipboard Font Paragraph Styles

H. Course Articulation Matrix: (Mapping of COs with POs and PSOs)

CO	STATEMENT	CORRELATION WITH PROGRAM OUTCOMES										
		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	P 1
AR1505.1	Infer behaviour of steel joints, steel sections and their selection		3			1						
AR1505.2	Analyse and design of different steel sections		2			1						
AR1505.3	Design and analyses of compression and tension members		2			1						

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1:09:18 3:25:30

Dr. Kiran Shekhawat [MU - Jaipur] Dr. Meera Baidar [MU - Jaipur]

Fig 6: Screenshot of Articulation Matrix

Day-4: 15th July, 2021

Event Coordinators: Mr. Gaurav Prasad, Mrs. Kuntal Gaur

Prof (Dr.) D.P. Sharma, Director MUJ Tec began day 4 of the FDP jointly organised by MUJ-Tec and Team Hr on Understanding and implementation of OBE attainment calculation in professional education. He highlighted the working of OBE sheets and its importance. He also requested participants to give their feedback. Mr. Gaurav Prasad then commenced the session by revisiting the topics discussed on the previous day (14th July 2021). He gave participants brief idea about different tools used. 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 calculate the CO attainment were discussed. The relevance of colouring scheme used in the sheet was highlighted. Mr. Prasad emphasized on the points to be 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. This was followed by number of queries from the participants in the Q&A session.

The session ended with Q&A, attendance, and feedback of the participants. All the OBE coordinators were requested to share CO attainment sheet of few courses and program attainment sheet of their respective departments which is to be used in the next session.

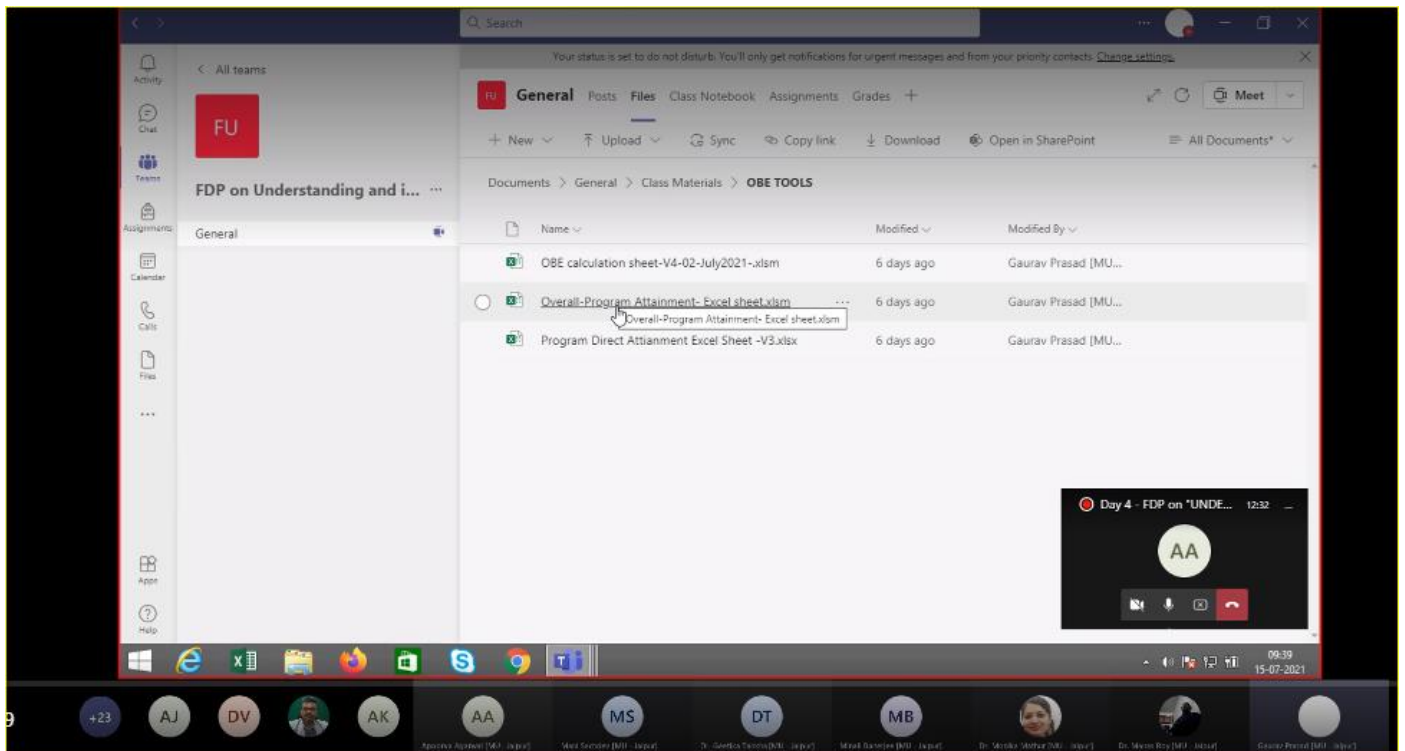


Fig 7: Screenshot of OBE Tools

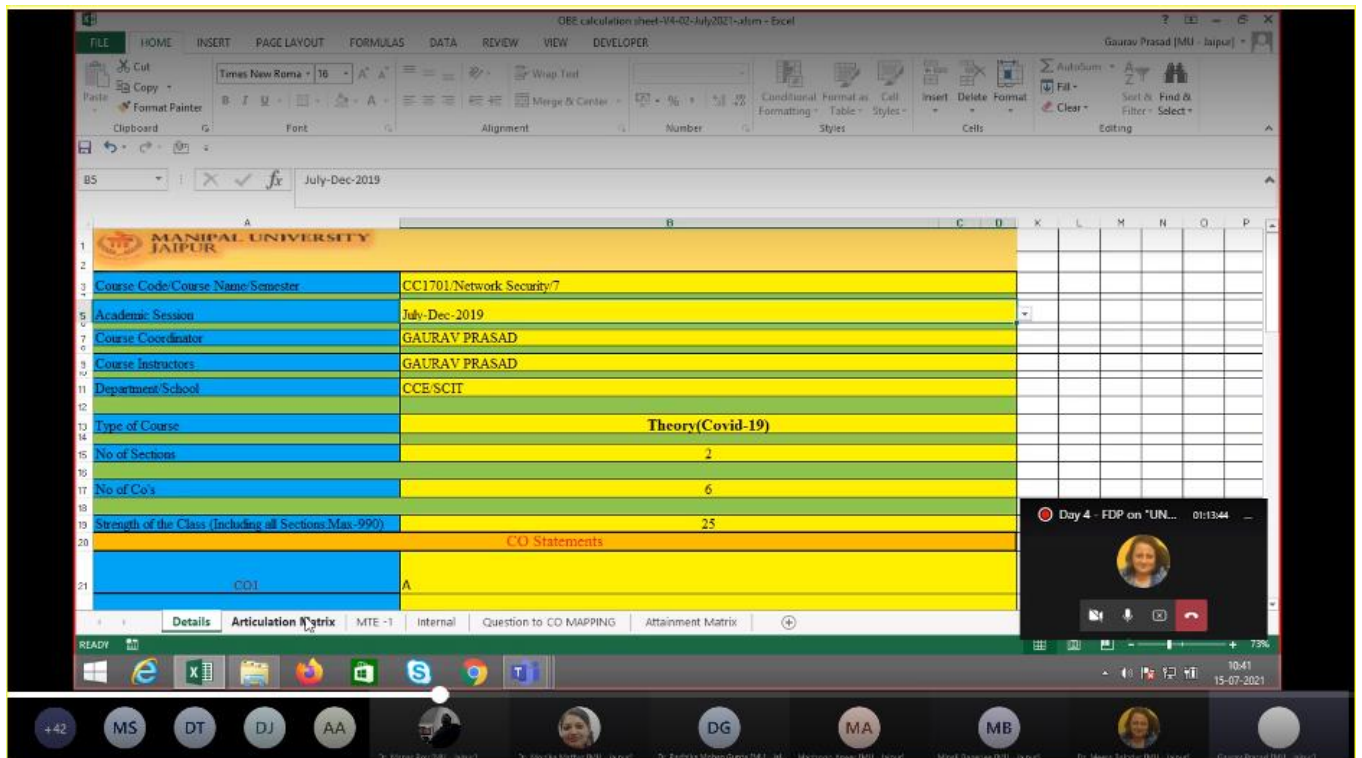


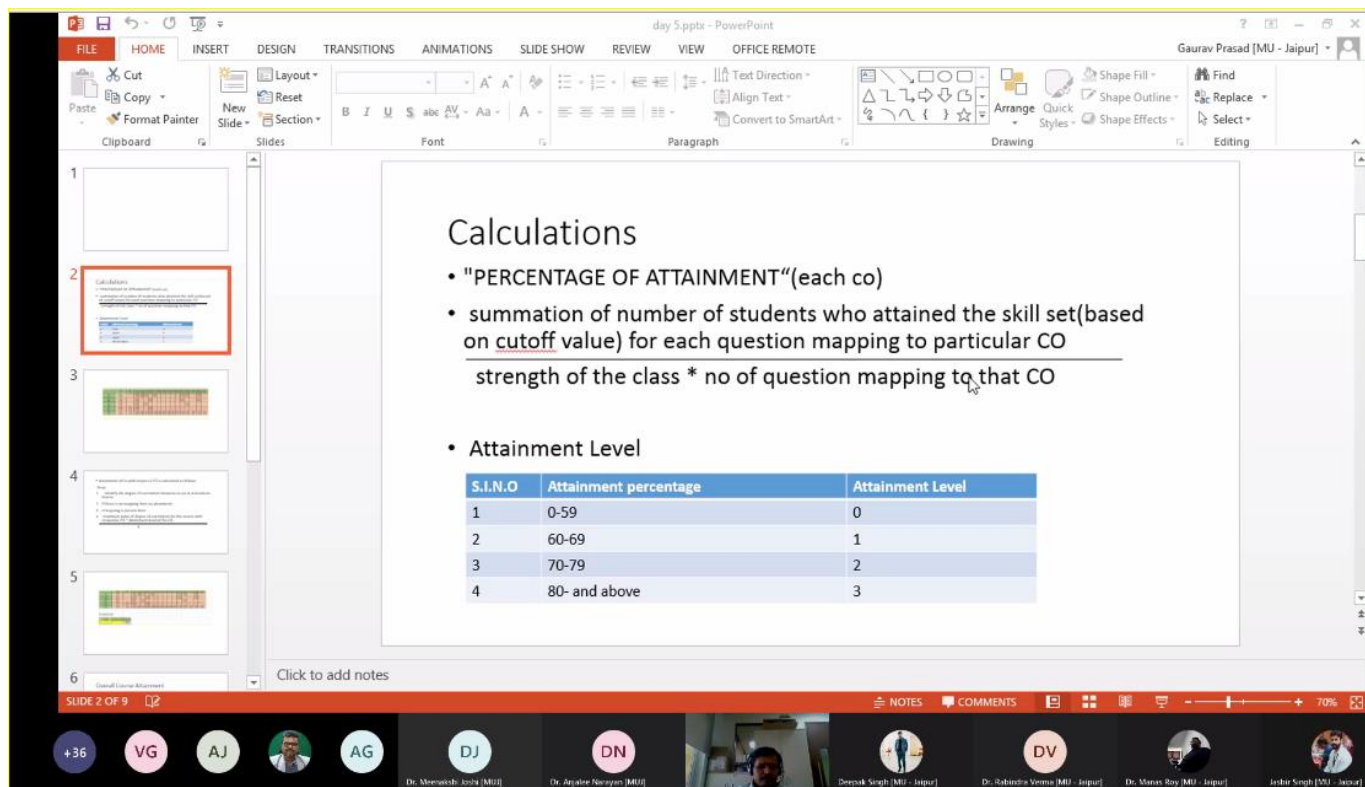
Fig 8: Screenshot of OBE sheet

Day-5: 16th July, 2021

Event Coordinators: Mr. Gaurav Prasad, Mrs. Kuntal Gaur

The final day of the FDP commenced with Mr. Gaurav Prasad revisiting the topics discussed on the previous day (15th July 2021). This was followed by the discussion on calculating the CO to PO attainment. The technique to calculate overall CO attainment was also explained. This was followed by participants practising the technique on courses taken by them earlier. 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. Participants were then made to practise the same. Mr. Gaurav Prasad shared few tips to reduce the workload of OBE coordinators. The tool used for calculating the overall attainment was discussed with examples and participants were given exercise on the same. A quiz was conducted in the end to evaluate the outcome of the FDP and feedback was taken from the participants.

Dr. Suyesha Singh began valedictory function by introducing Mr. Sridhar, Head HR MUJ to the participants. He stressed on the importance of the session. The FDP concluded with vote of thanks given by Prof (Dr.) D.P. Sharma, Director MUJ Tec.



The screenshot shows a PowerPoint slide titled "Calculations" with the following content:

- "PERCENTAGE OF ATTAINMENT"(each co)
- summation of number of students who attained the skill set (based on cutoff value) for each question mapping to particular CO

$$\frac{\text{strength of the class} * \text{no of question mapping to that CO}}{\text{strength of the class}}$$
- Attainment Level

S.I.N.O	Attainment percentage	Attainment Level
1	0-59	0
2	60-69	1
3	70-79	2
4	80- and above	3

The slide is part of a presentation titled "day 5.pptx - PowerPoint" by Gaurav Prasad [MU - Jaipur]. The interface shows various PowerPoint tabs like FILE, HOME, INSERT, DESIGN, TRANSITIONS, ANIMATIONS, SLIDE SHOW, REVIEW, VIEW, and OFFICE REMOTE. The bottom of the screen shows a meeting interface with participant avatars and names: +36, VG, AJ, AG, DJ, DN, DV, and Jashir Singh [MU - Jaipur].

Fig 9: Screenshot of technique to calculate percentage of attainment

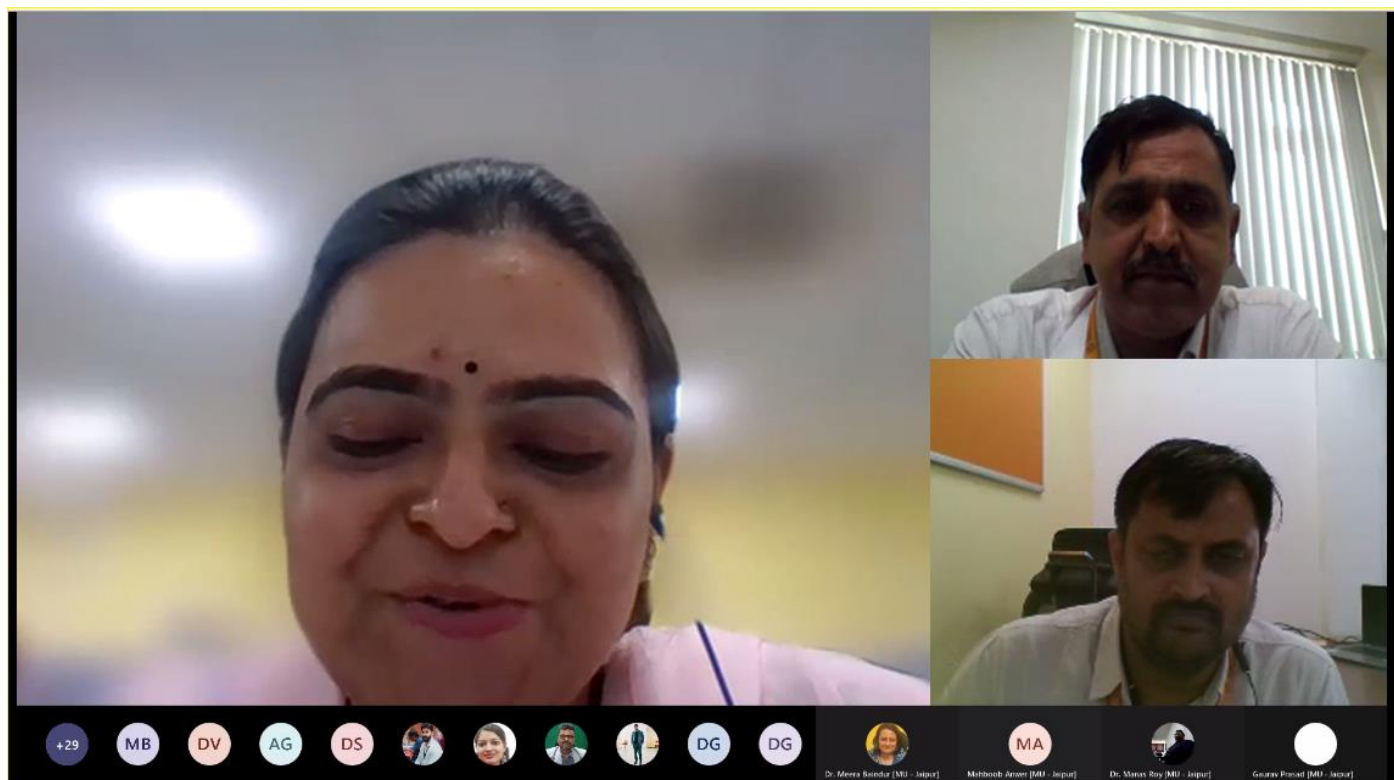


Fig 10: Screenshot of Valedictory function

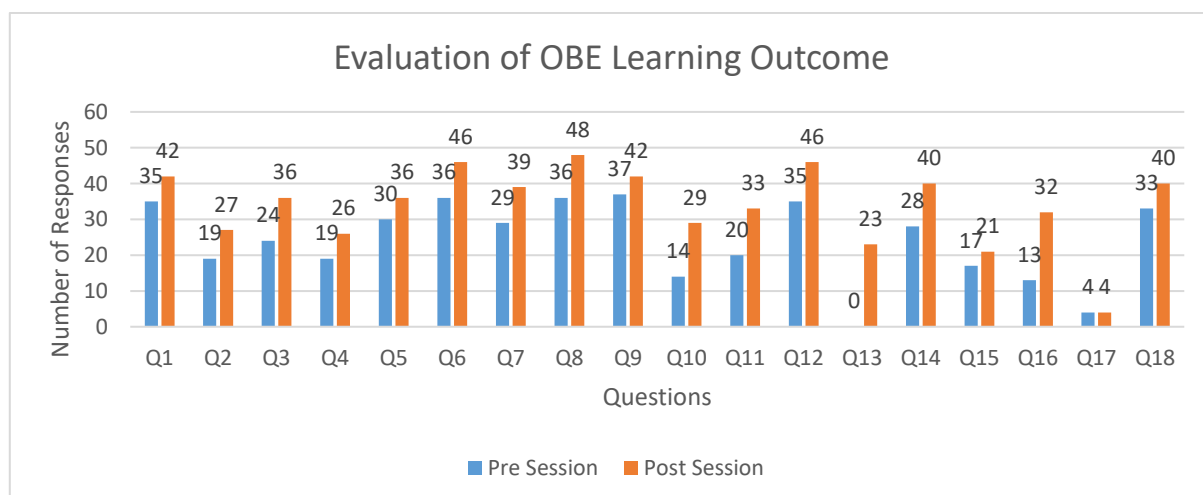
List of attendees:

S.I.N.O	MUJ ID	Name	Department
1	MUJ0776	Akshay Gupta	Architecture
2	MUJ0684	Raunak Prasad	Architecture
3	MUJ0532	Manish Sharma	Architecture
4	MUJ0657	Siddhant Walia	Architecture
5	MUJ0611	Ar. Sunanda Kapoor	Architecture
6	MUJ0659	Neha Saxena	Architecture
7	MUJ1004	Dhrubajyoti Padun	Architecture
8	MUJ1109	Jyoti Yadav	Architecture
9	MUJCON053	Abhas Verma	Architecture
10	MUJ0026	Dr. Richa Arora	
11	MUJ1086	Dr. Meera Baindur	Department of Arts
12	MUJCON033	Dr. Radhika Mohan Gupta	Department of Arts
13	MUJCON056	Mani Sachdev	Department of Arts
14	MUJ0965	Jasbir Singh	Department of Arts
15	MUJ1070	Vijmendra Kumar Grover	Department of Arts
16	MUJ0919	Anjalee Narayan	Department of Arts
17	MUJ0799	Anushri Gaur	Department of Interior Design
18	MUJ0883	Sonali Jain	Department of Interior Design
19	MUJ 1003	Apoorva Agarwal	Department of Interior Design
20	MUJ0963	Akshita Joshi	Department of Interior Design
21	MUJ 0743	Richa Jagatramka	Department of Interior Design
22	MUJ0441	Ar. Sneh Singh	Department of Interior Design
23	MUJ0901	Minali Banerjee	ECONOMICS



24	MUJ0403	Dr. Shilpi Gupta	ECONOMICS
25	MUJ1114	Thakur Dev Pandey	Economics
26	MUJ0762	Dr. Manas Roy	ECONOMICS
27	MUJ0827	Dr. Monika Mathur	Economics
28	MUJ0902	Poonam Mishra	Economics
29	MUJ0666	Varuni Sharma	ECONOMICS
30	MUJ0934	Mahboob Anwer	Fashion Design
31	MUJ0411	Harshwardhan Soni	Fashion Design
32	MUJ1044	Dr. Sampath Kumar Padmanabha Jinka	Fashion Design
33	MUJ0450	Pratibha Mishra	Fashion Design
34	MUJ0806	Ms. Dechen Angmo	FINE ARTS
35	MUJ0990	Deepak Singh	FINE ARTS
36	MUJ0692	Dr. Kusum Kanwar	Fine arts
37	MUJ1057	Priyanka Yadav	Languages
38	MUJ0142	Dr. Rabindra Verma	Languages
39	MUJ0670	Arun Kumar Poonia	Languages
40	MUJ0578	Dr. Priyanka Chaudhary	Languages
41	MUJ1081	Kirti Shekhawat	PSYCHOLOGY
42	MUJ0946	Suyesha Singh	PSYCHOLOGY
43	MUJ0922	Vineeth Kumar	PSYCHOLOGY
44	MUJ0122	Dr. Geetika Tankha	PSYCHOLOGY
45	MUJ0585	Prashasti Jain	PSYCHOLOGY
46	MUJ0923	Bhavana Arya	PSYCHOLOGY
47	MUJ0395	Dr. Charu Dhankar	PSYCHOLOGY
48	MUJ0570	Dr. Gargi Sharma	PSYCHOLOGY
49	MUJ0014	Dr. Meenakshi Joshi	PSYCHOLOGY

FDP Outcome Analysis:



Feedback Analysis:

Feed Back "Understanding and implementation of OBE attainment calculation"

45

Responses

10:23

Average time to complete

Closed

Status

1. MUJ ID

45

Responses

Latest Responses

"0026"

"MUJ0659"

"Muj0743"

2. NAME

 Insights

45

Responses

Latest Responses

"Dr Richa Arora "

"Neha Saxena"

"Richa Jagatramka "

3. DEPARTMENT

 Insights

45

Responses

Latest Responses

"Arts "

"Architecture"

"Interior Design "

4. SCHOOL

 Insights

45

Responses

Latest Responses

"SHSS"

"School of Architecture and Design"

"Planning and Design "

5. OUTLOOK-EMAIL ID (JAIPUR DOMAIN)

Insights

45

Responses

Latest Responses

"richa.arora@jaipur.manipal.edu"

"neha.saxena@jaipur.manipal.edu"

"richa.jagatramka@jaipur.manipal.edu"

6. Whether Knowledge and information has been gained from participating at this FDP event?

Insights

Yes	45
No	0



7. Whether the fdp will be useful/applicable in your work

Insights

Definitely	36
Mostly	9
Somehow	0
Not at all	0



8. Whether the fdp met your expectations

Insights

Yes	43
No	1
Somehow	1



9. The FDP content was

Insights

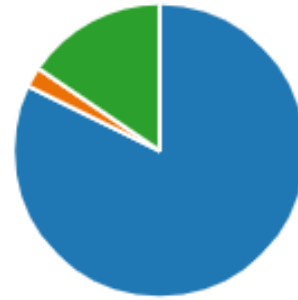
Relevant	44
irrelevant	0
Partially relevant	1



10. The FDP content was

Insights

● Easy to understand	37
● Difficult to understand	1
● Partially difficult to understand	7



11. The fdp workshop time and mode was

Insights

● Comfortable	40
● Un Comfortable	5



12. Which topics or aspects of the workshop did you find most interesting or useful?

Insights

31 Responses

Latest Responses
"CO PO mapping "
"The OBE matrix explanation "

13. Which topics or aspects of the workshop did you find not useful and irrelevant

Insights

20 Responses

Latest Responses
"N "

14. Rate the FDP facilitator based on Knowledge of content on the scale points 1 to 3 scale (1 = Poor knowledge, 2 = Moderate knowledge, 3= Extensive knowledge)

Insights

● 1	1
● 2	5
● 3	39



15. Rate the FDP facilitator based on Well-preparedness on the scale points 1 to 3 scale (1 = Poor preparedness, 2 = Moderate preparedness, 3= Extensive preparedness)

💡 Insights

1	0
2	5
3	40



16. Rate the FDP facilitator based on Responsive to participants' questions on the scale points 1 to 3 scale (1 = Poor , 2 = Moderate , 3= Good) * 1

💡 Insights

1	1
2	3
3	41



17. Did the workshop achieve the programme objectives

💡 Insights

Yes	45
No	0



18. Would you like to attend such fdp henceforth

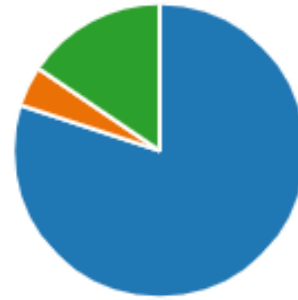
Yes	43
No	2



19. Would you recommend this workshop to someone else?

💡 Insights

Yes	36
No	2
Maybe	7



20. What is your overall assessment of the event

💡 Insights

Poor	0
Average	0
Good	19
Excellent	26



21. Comments and suggestions (including activities or initiatives you think would be useful, for the future)

💡 Insights

18
Responses

Latest Responses
"Wonderful initiative 👍"