

# My Experience: Science behind Online Teaching-Learning



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**Abstract:** A Coronavirus disease has changed the scenario of the education system altogether. Online delivery of courses is not a new thing. We do have YouTube videos, Udemy, Edureka Live sessions and Nptel, MOOC courses, and many more. All the stakeholders' students as well as professors, parents are familiar with Online and live sessions. But when it comes to total replacement of physical education by complete online sessions then it's challenging. Plenty of excellent tools, frameworks, and products like Microsoft Team, Zoom, Moodle, Gomeetings, and many more are available to deliver classes as well as Practicals. In this paper, I would like to share different methodologies like students mind preparation, Students engagement, Assignments, summarization and feedback which proves very fruitful during my course delivery.

**Keywords:** Mind Preparation, video-ken, Summarization, Microsoft-Team.

## I. INTRODUCTION

A Coronavirus disease has changed the scenario of the education system altogether. Online delivery of courses is not a new thing. We do have YouTube videos, Udemy, Edureka Live sessions, and Nptel and MOOC courses, and many more. All the stakeholders' students as well as professors, parents are familiar with Online and live sessions. But when it comes to total replacement of physical education by complete online sessions then it's challenging. Plenty of excellent tools, frameworks, and products like Microsoft Team, Zoom, Moodle, Gomeetings, and many more are available to deliver classes as well as Practicals. I would like to put forward the methodologies I have been using for the delivery of my course.

## II. METHODOLOGIES

When it comes to the teaching-learning process, it is the scientific process. Both the entities are living entities and when it comes to replacing this process totally by virtual/online mode then there are so many challenges like students as well as professor's readiness, flexibility, adaptability, acceptance of new environment, and many more. While overcoming the above-stated challenges, I have been using the following methodologies which might prove useful for some of you to conduct your courses.

**A. Mind preparation:** The most important faculty of the human being is his/her mind. All the power lies in the mind [1]. The state of mind matters a lot. So, the first method/activity that I have been practicing is in the initial 5 mins I asked students to close their eyes and ask them to recite, " I am sorry, Please forgive me,

Thank you so much, I Love you," Ho'oponopono technique[2][3]. You can use any technique for mind readiness or relaxation. But the student's mind must be prepared to be with you and content delivery for the next 1 hour. This technique proved very successful in my case. Irrespective of age group, connect is very important. I am using Microsoft-Team for my course delivery where there are excellent features like video, sharing, chat, and many more. But to start within the virtual world, we as a personality not there so to create that connection between students and us that touch which is a language of love must be created first. Within just the first 5 mins, once this has been done, the rest of the session proves fruitful.

**B. Students Engagement:** The most important use case of the teaching-learning process is the student's involvement. As I stated, I have been using Microsoft Team there is a chatbox feature where you can post questions and students can post their answers [8]. You can give in advance assignments to students and in the next session, you can ask students to share their screen and give them an experience of the actual happening of class in reality because as far as engineering is concerned, seeing your own creation/implementation gives happiness. This way we can have a healthy competition among students and the generation is very smart with these tools and technologies, we can keep them engaged and make them to an understood subject as well. Sometimes changing the role of students from attendee to presenter proves very beneficial.

**C. Assignments:** Giving online assignments is okay but I have asked students to write some assignments and scan them and they have mailed me. This way we can maintain their writing habits too. But such assignment with minimal numbers, because this situation shall pass away and students must be habitual for writing. Giving quizzes also proved very fruitful [6].

**D. Summarization:** To start with the summary of the previous class and concluding the current class is very important. Record your sessions and Video-ken [4] is an excellent tool with which you can create a summary of your video and give students for future reference. Recording of my own session helps me a lot to improve my teaching peace, modulation of voice, and many improvements and such recordings can prove beneficial for absentees too.

**E. Feedback:** The most important activity is to take feedback from students either using Google form or any other forms after each class. Feedback is the most important to improve our way of delivery of content and course and learning outcome evaluation.

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## III.RESULT ANALYSIS

By making use of above stated methodologies like student's mind preparation, student's engagement, giving them assignments and taking feedback time to time helps to improve students attendance and interest in my course.

## IV.CONCLUSION

With the above stated and used methodologies, I would like to conclude by stating that irrespective of whether it is Physical or online classroom Positiveness in Environment, Connect with a student is very important, in fact very powerful. So be connected from heart to heart in online class too by preparing the mind of students and creating that happy environment and happy learning too.

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