

I.T.S Dental College, Hospital and Research Centre

47, Knowledge Park – III, Greater Noida (U.P.)

7.2.1 Two Institutional Best Practices

1. Learning Management System (LMS) as an adjunct to regular teaching and also for online teaching
2. Live demonstration of treatment procedures for undergraduates using state of art - live demonstration video camera light and AV system.

LEARNING MANAGEMENT SYSTEM

1. Title of the Practice

Learning Management System - Google Classroom and Google Meet

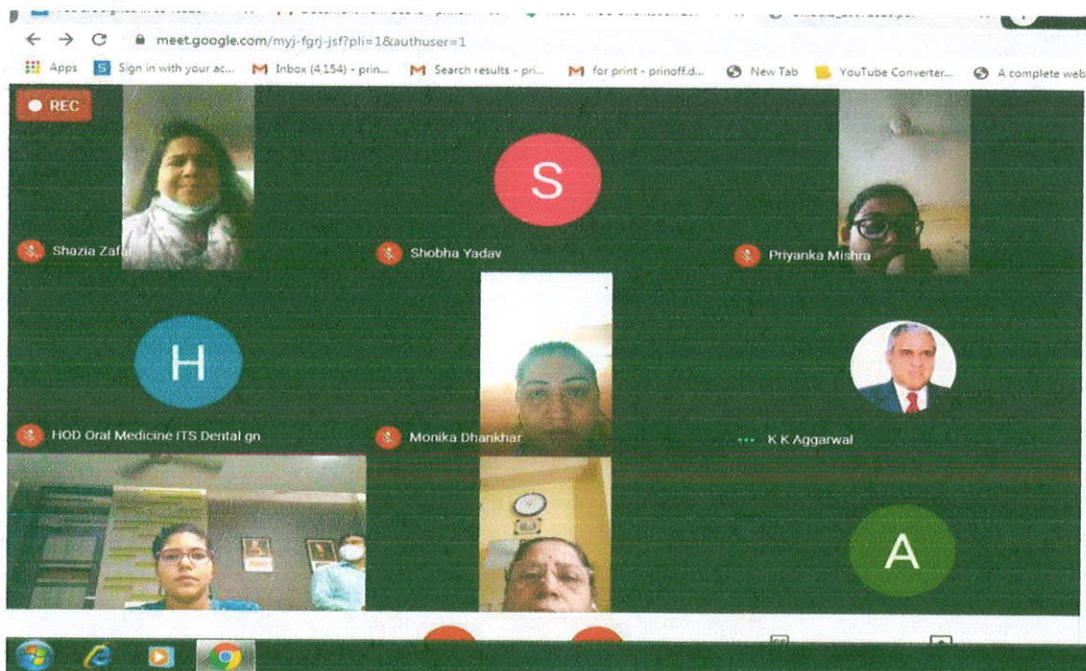
2. Objectives of the Practice

- a) To be in sync with contemporary standards/ methodology of teaching
- b) To create a database of study material, videos, etc. for ready access by students at their convenience
- c) Increase student participation for better assessment of their understanding
- d) Imbibe education technology into teaching
- e) Provide a platform to assess the students' performance throughout the year and take appropriate corrective measures in time.
- f) Provide a means for online classes to allow lectures by guest faculty.

3. The Context

The challenging issues:

- a. To change the mindset of both teachers and student from old school of chalk and board to computers and technology based learning.
- b. Provide a Learning Management System that could run equally across various platforms and devices.
- c. Train teachers for e-learning and use of LMS.
- d. Train students on use of LMS to access materials and submit assignments.




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4. The Practice

- The basic tenet of LMS was to adopt modern means of teaching methodology with an amalgamation of classical teaching.
- Imbibe e-technology based methods for technology savvy generations.
- Take the teaching beyond the classroom and give the students and the teachers the opportunity to interact and learn even outside the class.

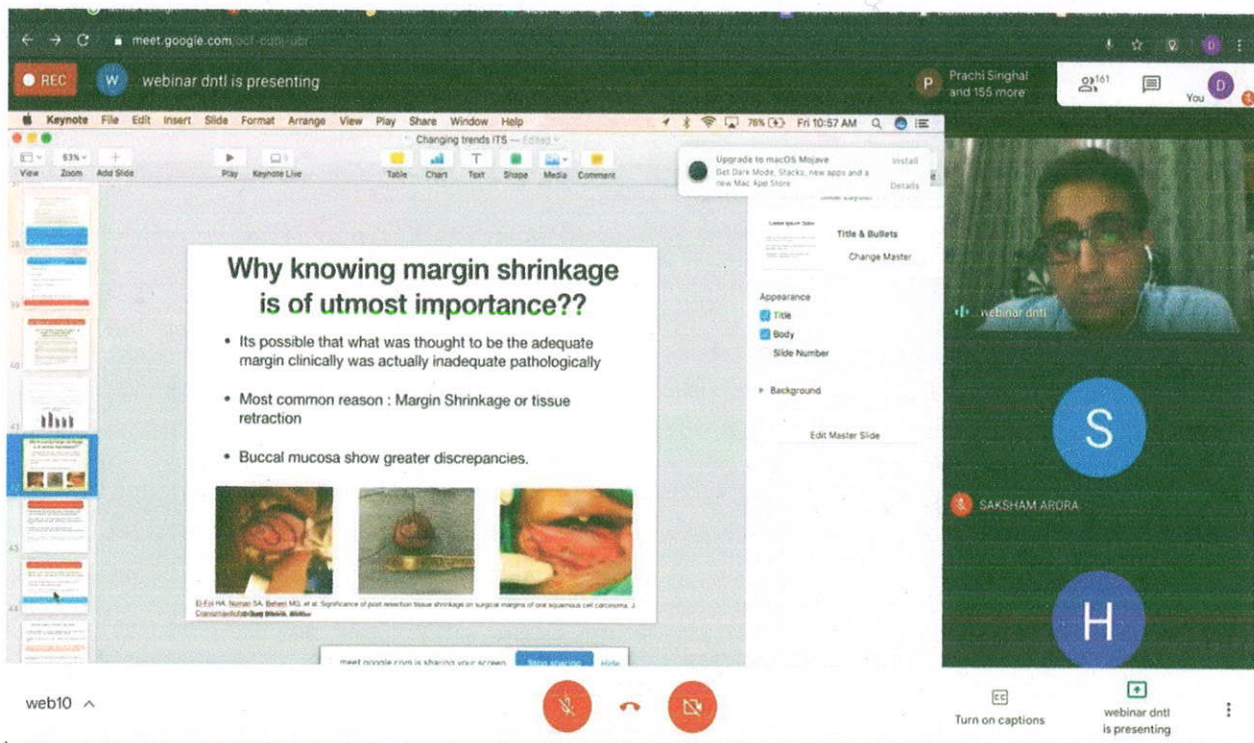
Constraints/ Limitations faced

- Train the teachers for use of LMS.
- Train the students regarding the use of LMS.
- Providing class rooms well equipped with basic internet facility to permit use of the LMS.

5. Evidence of Success


On monitoring the metamorphic academic module, following observations were seen:

- Internal results reflected better scores across all subjects and all batches as compared to previous methods.
- The students started interacting more to clear their doubts and thus leading to better understanding of the subjects.
- The regular assignments and their assessment gave a better overview of students' performance in real time giving an opportunity to below average students to better their grades with time.
- Incorporating different types of assignments like quizziz and crossword helped in gamifying the assignments, thus improving upon the overall response and interest of the students.
- The echelons of the student batches won laurels and stood in the top rolls of university ranks.



6. Problems Encountered and Resources Required

Procurement of LMS, a good internet connectivity across the institution building was required. Teachers were trained for teaching using Google classroom, Google meet, quizziz and other tools. It was initially a task to change the mindset of teachers and students to adopt and adapt to this new methodology of teaching and


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learning. However, as everyone experienced the positive change and witnessed the results, the LMS has been well accepted in the institution.

STATE OF THE ART LIVE DEMONSTRATION VIDEO CAMERA AND AV EQUIPMENT FOR DEMONSTRATION OF OPERATIVE PROCEDURES

1. Title of the Practice

State of the art live demonstration video camera and AV equipment for demonstration of operative procedures.

2. Objectives of the Practice

- a) To be in sync with contemporary standards/ methodology of teaching
- b) To enhance the understanding of the basics and techniques of operative clinical procedures, thus providing more optimal practice conditions.
- c) To optimise training by incorporating the Tell - Show - Do method

3. The Context

The challenging issues:

- a. Initial set up costs.
- b. Maintenance of equipment.

4. The Practice

- a) The teachers can give live demonstration of operative procedures and the students can see the same on a large LCD screen with live video streaming and two-way communication.
- b) This permits excellent visibility to all the students, thus eliminating the limited visibility and understanding, when standing in groups around the dental chair. This also significantly reduces the patient anxiety.
- c) Teachers explain the entire procedure while operating using the Two-way communication. Also, the students can clarify their doubts through the same.

Constraints/ Limitations faced


- a) Providing a well equipped operatory which is connected to the student seating area through LAN and AV equipment.
- b) Initial setup and running hiccups, which were eliminated by training the faculty and installing another LCD screen in the operatory, allowing the operator to see what is visible to the students adjust the camera view in between.

5. Evidence of Success

- a) Students have become more focused in their work.
- b) There is more precision in the clinical work of students.
- c) Students understand the concepts better and interact more to clear their doubts.

6. Problems Encountered and Resources Required

More resources and infrastructure was required for the Demonstration Area set up. An operatory with air conditioning, light mounted video camera, AV equipment and LCD screen was setup with an additional dedicated seating area for students, with air conditioning, large LCD screen and AV equipment connected to the operatory. The initial set up cost was high. There was a learning curve for the same and the faculty training was done. The results seen in better psychomotor skills, precision working and practical understanding of students were quite encouraging.


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