



**BLDE**

**(DEEMED TO BE UNIVERSITY)**

Declared as Deemed to be University u/s 3 of UGC Act, 1956

The Constituent College

SHRI. B. M. PATIL MEDICAL COLLEGE, HOSPITAL & RESEARCH CENTRE, VIJAYAPURA

## Details of ICT-enabled tools used for teaching and learning

Teaching learning resources are being implemented in the University in all the departments. Lecture galleries are provided with the Touch enabled Pen input-based laptop. These laptops are provided with the software which enables the following

### **1. High end Touch laptop with Office 365**

- The PowerPoint slides, inking using the active pen, laser pointer to show on the screen, audio and video of the teacher are saved.
- This saved PPT along with the video is saved to the NAS, Cloud storage (Google Drive & OneDrive)

### **2. Smart board solution in the Lecture galleries:**

- The usage of Microsoft Whiteboard which has the option to use multiple pens used for free hand drawing and pictures to be inserted in this as well.
- There is an option to share the drawing and content in real time with the students on the campus and off the campus.

### **3. Interactive touch DigiBoard:**

- LED smart boards with the features like touch and pen inputs are being used in the teaching learning activities for smaller groups in the demonstration rooms and seminar halls.
- These devices are provided with the whiteboard software and PowerPoint software.
- These systems are also having inbuilt speakers for the demonstration of AV media or e-content.

### **4. Document visualizer:**

- The document visualizer connected to the Laptop and projector in the video recording mode has enabled the teachers to write on the pen and paper which can be displayed to the large groups.
- This document visualizer is also being used in the demonstration of specimens for groups in practical sessions.

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**5. Critical care teaching device:**

- Interactive device built by IT department of our institution. It is a mobile wireless two-way audio-video communication device for teaching learning and documentation in critical care patient admitted under critical care.

**6. Projectors:**

Ultra-bright projectors projections for the demonstration of the media and e-content in the Classroom.

**7. Real time assessment – Microsoft TEAMS, Google classroom & Google & Microsoft forms:**

- Real time assessment of the students in the practical students and MCQ test was conducted using the Microsoft TEAMS, G classroom and google&microsoft forms
- The answers were evaluated in the Quiz mode and the students were screened for the next round and a discussion was held on the questions where majority of the students got wrong.

**8. Digital classroom:**

- The routine postgraduate teaching activities were incorporated in the virtual learning environment where all the students were added.
- The assessment of the students with the ability to provide feedback and to return the assignments.
- Time based assignment submission and review.
- Streaming of the seminars, surgeries, reporting and interesting post graduate teaching cases are being incorporated into this virtual digital classroom which can be accessed by a closed group of members in a secure environment.

**9. Paperless thesis system:**

Paperless post graduate thesis, which is secure, customized and sequential in completion from end to end with capture of multiple data point throughout the documents life cycle. This process is automated archived and the ability to retrieve is access restricted to the concerned faculty and postgraduates. Apart from digitizing this we also made advancements in terms of savings, paper free and eco-friendly.

**10. Online Virtual classroom teaching:**

Implemented using multiple platforms (TEAMS, GOOGLE CLASSROOM, MICROSOFT ASSESMENT FORMS, and LIVE LECTURES) which has two-way real-time interaction with both audio and video. Students will get the recorded presentation after the class for revision, interesting is it has transcription, the speech is converted to text, and these texts become students'

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readymade notes. To enhance the understanding and making most of the available technologies we have implemented the virtual dissection with live dissection using custom made solutions. We updated to advanced online whiteboard teaching in the system to cater every style of teaching. Digital board and smart boards, assignments and the grading system were also incorporated. Students can also access to digital library online. We are even taking online classes extended to 79 other medical colleges and 1475 outside students have registered for the classes.

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**11. Lecture capture System:**

**System 1:**

- All the gallery halls are enabled with the resources for audio video recording and streaming of the classes.
- These classes will be recorded and stored in the cloud-based system which is catalogued and retrieved based on the search logic.
- This captures the audio and video in High definition.
- Even the marking on the slide and the laser pointer is captured making the student to have a presentation where the student will be able to appreciate the changes made by the teacher in the class even during the replay of the class.

**System 2:**

- Video capture using the high definition, motion tracking, AI based person detection will enable in capturing the teacher who likes to move around in the class while teaching instead of being stationary in front of the podium.
- The capture of PowerPoint also happens using a second camera. The integration of the both cameras is enables using software and this can be live streamed as well using the high-speed campus fiber optic backbone.

**System 3:**

- Recording of the content using the media center.
- Microsoft TEAMS , Google classroom, contents also been adds to the lecture repository.
- Online classes recordings have been uploaded, for revision study for students

**System 4:**

- Critical care teaching device: interactive device built by IT department of our institution. It is a mobile wireless two-way audio-video communication device for teaching and documentation in critical care units.

**System 5:**

- Live and virtual dissection teaching for the undergraduates and postgraduates, virtual dissection teaching is through an auto image dissection table designed by IT department of our institution.

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