



CHILDREN'S EDUCATION SOCIETY (Regd.)

**THE OXFORD DENTAL COLLEGE**

(Recognized by the Govt. of Karnataka, Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka & Recognised by Dental Council of India, New Delhi)

Bommanahalli, Hosur Road, Bangalore - 560 068.

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DETAILS OF ICT ENABLED TOOLS USED FOR TEACHING AND LEARNING 2022-23

Number of teachers on roll	Number of teachers using ICT (LMS,e-Resources)	ICT tools and resources available	Number of ICT enabled classrooms	Number of smart classrooms	e-resources and techniques used
116	116	Desktops : 56 Projectors :09 Overhead Projector :04 Dental X-ray film scanner :01 Internet & WiFi  Total-70	4	10	1. Teachers can benefit from the resources as well, by employing useful tools. Electronic resources consist like e-journals (helinet) e- Books and e-Media for data representing the numbers, text graphics, CD/DVD'S, images, maps, music sounds etd. 2. Powerpoint presentations individual videos from YouTube by concept experts animations. 3. Complementing the Chalk and Talk methods with audio-visual aids using powerpoint presentation, videos and animations

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All departments have computers with internet connection, printers, scanners which help in teaching learning treatment and research.

ICT Enabled Tools for Teaching Learning :

- The college is equipped with 6 class rooms, 9 seminar halls, a Smart Board for board room and one auditorium which have LCD projectors, Wi-Fi and LAN connection.
- The college has 56 Desktops, 09 Projectors, 04 Overhead Projectors and 1 Dental X-ray film scanner in the campus. Faculties utilize these facilities for student training and academic activities. Students utilize the facilities to access essential reading materials such as journals and articles.
- The entire campus is enabled with Wi-Fi connectivity and a dedicated 60 Mbps internet leased line is available for the college.
- The systems on campus have regular software upgrades. There are antivirus and other security measures in place to safeguard user data.
- Students are provided with department wise Power Point presentations meticulously crafted by the teaching faculty. These presentations are designed to enhance comprehension and facilitate effective learning of the subject.
- Audio visual room equipped for the video conferencing is available.
- More than 355 educational CDs and DVDs are available in the library.
- Question bank with question papers for the past 15 years is made available in the library.
- Periodic training sessions are conducted for teachers to enhance their skills in utilizing ICT facilities, ultimately benefiting the students.
- Image analysis software is available for the students for conducting cytomorphometric studies for their projects, short studies and dissertation work.
- For safety measures CCTV cameras are installed in all classrooms and common areas, all of which are integrated into a system.
- The institution has established an IT committee that provides recommendations to the Governing Council/BOM regarding IT service upgrades, all aimed at benefiting our stakeholders.



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**ICT enabled tools for patient management :**

1. Clinics of the college are interconnected through a patient management software known as G-Health software. This software has been meticulously developed to meet the specific requirements gathered from the Oxford Institute of Dental Sciences. Gestalt Learn, in collaboration with its team, was responsible for its development, conducting all the necessary testing and validation processes.
2. A defined process was implemented to verify the functionality of each form within the software, ensuring that it successfully met all the specified checkpoints in the process.
3. The entire process involved inputting virtual discographic data, along with all the requested information, into the software.
4. Database-level validation was carried out to ensure the accuracy of data. The validation process encompassed various modules, including :
  - a. Software Setup
  - b. Patient registration
  - c. Outpatient billing
  - d. Doctor deck
  - e. Materials management
5. The x-ray software enhances efficiency , prioritizes safety and improves results.
6. The Department of Prosthodontics is equipped with an advanced version of T-scan Software, Version 9.0. The digital occlusal analysis device utilizes sensor technology to measure the timing and force of contacts within the mouth. The recent upgrade of this software aligns with the evolving trends in digital dentistry, emphasizing comprehensive data-driven treatment planning and seamless integration into digital workflows.
7. T-scan is employed by clinicians across various dental applications to identify and analyze occlusal imbalances. The software's clinical data is utilized to:
  - Identify the source of pain or discomfort.
  - Verify balance and pressure distribution across the dentition.
  - Confirm potentially damaging contacts.
  - Determine contact timing.
  - And much more, aiding in comprehensive patient care and diagnosis.
8. The Department of Implantology utilizes Dbswin, the Durr Vista Scan system. This software facilitates convenient access to intraoperative imaging from the Vista Scan, offering a fast and efficient means of visualization.
9. The Department of Orthodontics employs Dolphin 3D software, a powerful tool that simplifies the processing of 3D data. This software enables dental specialists from various disciplines to diagnose, plan treatment, document cases, and create presentations. Dolphin 3D facilitates visualization and analysis, enhancing the capabilities of the department.
10. The Department of Oral Pathology utilizes Progress Image Analysis software, which helps in histomorphometric analysis.
11. Department of Conservative Dentistry and Pedodontics utilizes the SOPRO imaging software, an innovative technology with phosphor plate offering fast, compact and ergonomic solution for obtaining superior image quality radiographs.



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ICT enabled tools for library :

The central library has BlogSpot for searching library information using an open access system.

The central library developed blog at [TODCL.blogspot.com](http://TODCL.blogspot.com), where university external examination question papers and current syllabus have been uploaded to the library portal. These question papers are organized by branches and grouped by year, making it convenient for students to access them from any location. Additionally, users can access e-journals and download resources provided by HELINET consortium.

Books are issued through a kiosk that is integrated with RFID technology. Additionally, the library offers internet browsing services and access to a question bank.

Books are issued through the library software which is presently using in desktop version(9.8) and it is going to be upgradation with web version.

There is a provision in the library for Audio Visual learning in a separate AV room.

The TODC-central library has a good audio-visual room, which serves as an effective learning space for the students all classes. It is an effective way to provide valuable information and expanding the horizon of experience.

The Audio-Visual Centre plays a crucial role in supporting the University's programs and activities. It aims to provide diverse array of communication-learning opportunities to students by utilizing Audio-Visual instructional and educational materials and equipment. Audio Visual Materials(AVMs) are materials that are relevant for learning, providing an alternative to reading books. According to The Librarian Glossary (1987) "AVMs as non-book materials like tapes, slides, films which are renewed and recent to rather than read as book.

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