

NAAC Criterion 2: Teaching Learning and Evaluation

2.3 Teaching - Learning Process

2.3.3: Teachers use ICT-enabled tools for effective teaching and learning process, including online e-resources





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Details of ICT-enabled tools used for teaching and learning



2.3.3

Teachers use ICT-enabled tools for effective teaching and learning process, including online e-resources

Response:

PESIMSR has been always instrumental in adopting the use of ICT Tools and electronic resources in learning & teaching. Teachers are using ICT-enabled tools for effective Teaching and learning. The use of Online e-resources makes Teaching & Learning enriched and interesting for learners. While PowerPoint presentations have made their way for decades now, the institute's medical education unit in its teacher training programs, which are mandated for all newly joining faculty members, ensures that extensive sessions on good practices and optimal use of ICT tools are conducted. Computers with Internet connection are provided in each department for the faculty members for access to e-portal content. All the departmental libraries & seminar halls are installed with LCD projectors to undertake Computer-Aided Teaching/Learning as well as for presentations and 24x7 access to the digital library.

All the faculty are trained in making their slides for PowerPoint presentations in e-training and development of e-content & Courses. During presentations, teachers utilize appropriate links to show live videos of demonstrations and procedures. Lecture theatres are fully digitalized with WiFi (100Mbps bandwidth) as well as with wired LAN connection and permit live streaming of online lectures, digital boards (Six in number), smart boards for lectures and most of the Demonstration rooms have audio-visual aids like LCD Projectors, and ICT tools for effective teaching. Provision for video conferencing through Zoom and Teams is also available. Computer-assisted learning (CAL) for interesting case discussions, clinical work, and animal experiments is noteworthy in the Department of Pharmacology.

The Institution has a webinar system which is a boon in the teaching-learning process. Students & faculty benefit from short-term programs of various reputed institutes in the country and abroad. All the faculty are trained in online teaching platforms like ZOOM, WebeX, Google Classroom, etc and effectively make and deliver learning programs. They see various online cloud-based MOOC programs at their leisure.

The MRCP Edinburgh and Massive Open Online Course (MOOC) such as - coursera.org, SWAYAM, OMNICURIS, Docmode, NMC, and NPTEL resources are popular among students and faculty. Students and faculty members utilize e-reference books and journals available in the central library on campus.

The institute subscribes to online databases to facilitate students and teachers to access these e-resources. Students are exposed to minimal access surgery and live robotic surgery through Skype. There are E-databases for students and teachers at the central library: Cochrane Library Databases, Directory of open access Journals (DOAJ), DOCLINE databases, Electronic Journals Library, Freebooks4Doctors, E-Books Directory, Free Medical Journals, PubMed, PubMed Central (PMC), Science.gov, Scientific Research, Springer Open, UGC INFLIBNET & Annual Reviews, WHO Library Database (WHOLIS), National Digital Library of India (NDL, India), and Access medicine. The institute has central access to the YSRMEDNET consortium & Digital Library (MyLoft) and all the faculties and students are registered individually and well-versed in accessing and downloading all the research articles and teaching content.




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The Role of ICT-Enabled Tools in Enhancing Teaching and Learning Processes: Insights from PES Institute of Medical Sciences and Research (PESIMSR)

Information and Communication Technology (ICT) has revolutionized the educational landscape, bringing innovative tools and resources that significantly enhance the teaching and learning process. At PES Institute of Medical Sciences and Research (PESIMSR), the integration of ICT-enabled tools has become a cornerstone in providing a dynamic and effective educational experience.

Enhanced Learning with E-Resources

Online e-resources such as digital libraries, e-books, and educational websites offer students at PESIMSR a wealth of information that is readily accessible. These resources support self-paced learning, allowing students to delve deeper into topics of interest and access the most up-to-date information in their field. The vast repository of e-journals and research papers enables students to stay abreast of the latest advancements in medical science, fostering a culture of continuous learning and curiosity.

Interactive Learning Platforms

ICT tools such as Learning Management Systems (LMS) and online collaboration platforms have transformed traditional classroom dynamics. At PESIMSR, platforms like Moodle and Google Classroom facilitate interactive learning experiences. These systems enable teachers to upload course materials, assign homework, and conduct quizzes, while also providing a forum for discussion and feedback. The interactive nature of these platforms promotes engagement and ensures that learning extends beyond the classroom.

Simulation and Virtual Labs

For medical students, practical experience is invaluable. ICT-enabled tools such as simulation software and virtual labs provide realistic and immersive learning experiences. These tools allow students at PESIMSR to practice surgical procedures, diagnostic techniques, and patient interactions in a controlled, risk-free environment. By simulating real-world scenarios, students can build their skills and confidence before transitioning to clinical settings.

Multimedia and Visual Aids

The use of multimedia in teaching has been shown to enhance understanding and retention of information. At PESIMSR, educators employ videos, animations, and interactive presentations to explain complex medical concepts. Visual aids can




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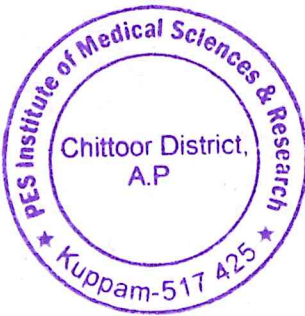
simplify intricate processes and structures, making it easier for students to grasp challenging material. These multimedia resources cater to various learning styles, ensuring that all students can benefit from the content.

Remote Learning and Flexibility

The COVID-19 pandemic underscored the importance of remote learning capabilities. ICT tools have enabled PESIMSR to offer flexible learning options, ensuring continuity of education despite disruptions. Online classes, webinars, and teleconferencing tools have allowed educators to deliver lectures and interact with students in real time, regardless of geographical constraints. This flexibility has been crucial in maintaining academic progress during challenging times.

Assessment and Feedback

ICT-enabled tools also streamline the assessment and feedback process. Online assessment platforms allow for efficient administration of exams and quizzes, with automated grading systems providing immediate feedback. This timely feedback helps students at PESIMSR identify areas for improvement and track their academic progress. Furthermore, data analytics from these assessments can guide educators in tailoring their teaching strategies to better meet student needs.




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