



Address : Vishwanathpuram Ambajogai Road,
Latur. 413531 (Maharashtra)

Tel : (02382) 228063, 227703,
227424

Fax : (02382) 228063

Email : principal@mitmidsr.edu.in
midsr.latur@gmail.com

Website : www.mitmidsr.edu.in

E-Governance architecture Document

1. Planning and Development:-

- All the faculties of the institution use ICT-enabled tools for effective teaching and learning process. These include online study materials and e-resources. Wi-Fi facility is provided for to all teachers and students. All lecture halls are enabled with computer, internet and audio-visual aids for effective learning of students

2. Administration:-

- All important administrative information including notices, circulars is regularly published through mail in each department using internet facility.
- The college office is linked through internet with the Principal's office for online supervision by the management.
- The administration communicates with the all departments, committees of the institutes through email using LAN facility.
- At administrative level, college & staff information through website, e-record maintenance is promoted. CCTVs installed in each department and hi-technology printers are available and internet facilities to feed the necessary documentations.
- Biometric attendance for all staff members.
- Patient's data record is Maintain using Pappyjoe software in each department.
- Social welfare office software is utilized for scholarship, free ship, EBC form related work.
- Muhs nashik software is used as a tool for admission eligibility of undergraduates, postgraduates .
- All the admission entries are provided to DCI through Dental Council of India software.

3. Finance and Accounts:- The accounts of the institution are maintained through the Tally software.

4. Student Admission and Support :-

- Student's admissions are made on merit basis through MH-CET/NEET exam .
- In the orthodontic department of institute Nemoceph software is provided for the diagnosis, treatment plan and presentation of the orthodontics case.
- Digital Library with multimedia facility (20 Systems) accesses the e- Journals, e-books, and other education materials. Library is fully computerized using Slim21 Library Software. Students and staff can access the library resources by sitting at Department

visiting the link <http://dntsever.w27> Or <http://192.168.10.222.w27>.

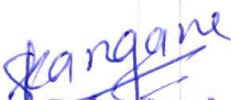
- OPG system software is used to take panoramic X-ray of the upper and lower jaws, including the teeth.
- SOPRO Imaging RVG System Software is provided to pedodontics for children to minimized radiation CS Imaging Software RVG Software is used Conservative & Endodontic department
- Initially Zoom software is utilized as a tool for the online lectures and practical classes. Microsoft Teams software is upgraded for better presentation. All staffs and students are provided with email id and password for smooth conduction of online classes on Microsoft teams.

5. **Examination:-**

- Internal assessment marks submission is done through online portal of the university Internal assessment software.
- The university practical examination marks of the students are also updated using internet facility.

❖ **Implementation of e-Governance in all departments of institute.**

- Each department of institute is well equipped with computers with internet connection, printer, scanner, and projector.
- The departments of institute have sufficient number of e-books, e-journals and CD material that help the students in the interactive learning process.
- **Departmental computer-** Utilized as a tool for various teaching learning activities for post graduates as well as Under Graduates like maintaining records of attendance, progress reports, seminars, journal club, library dissertation and thesis of post graduate students. And maintaining records of attendance, seminars presented by Under Graduate students and internal assessment of undergraduate students.
- Clerk uses the computer for record maintenance, notices records, internal assessment question paper settings, departmental circulars, biopsy related data entry and reporting entries, other departmental work like file names, museum records, library book records, log books of students, record of wax and plaster models, charts, tooth specimens and also stores the data & records of patients visited to department.
- It is also used by staff to prepare lectures, seminars. Also maintaining record of research work, academic work and teaching time table for students. Also maintaining interdepartmental records. Maintaining records of NAAC related departmental circulars and other committee records. It is also used to check the Plagiarism and Grammar mistakes in the articles with help of "Grammarly" software.
- **Projector-** Each department has projector for the teaching learning process for the post graduate students and undergraduate students. Post graduate students present their seminar, journal club, poster, paper using projector. Post graduate students also present special cases, synopsis of dissertation & thesis presentation.


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- It is also provided in lecture hall for the undergraduate students for conducting lectures, seminar as well workshops conducted by the department. Undergraduate students also present seminar using projector. Also during practical classes, carving video demonstrations and slide show of histology diagram's for students.
- **Internet** -Internet -based learning improves the quality of education of the students than the conventional teaching method. Information and communication technology is an increasingly important tool in dental education. Internet sites containing clinical, and radiographic data create an environment for students to study at their own place.
- In addition, to serve as a learning tool, the Internet may motivate students to undertake research and help them develop skills in collecting and analyzing data. Several studies have shown the potential use of computers, IT and Internet in the dental curriculum as an educational tool.
- Internet facility is provided by college to departmental computer. Post graduate students uses internet for searching reference articles, newer advances, educational videos and demonstrations. Profile of each patient is updated in the software including diagnosis, treatment plan and work done in the department by clerk under supervision of in charge staff. Internet facility is also used for advanced teaching techniques and research work.
- **Social media** -Post graduate and undergraduate students use social media to share & get instant quick information, reviews & solutions to their dental education problems. On social media a group is created for staff & Post graduate students for the discussion regarding the new technology, articles, equipment related to the subject.
- Departmental staff and passed out Post graduate students are connected through whatsapp group for sharing information related with subject. Inter departmental staff and administrative staff whatsapp group created for sharing regarding programs to improve education. Departmental whatsapp group is used to communicate regarding college circulars, taking emergency/medical leave in case of network issue.
- Whatsapp group of staff and UG students for work update as submission of journals and carvings. It is also used for theory, practical classes and sometimes revision practical communication.
- **PPT spotter demonstration:** - UG students effective by the use of MS PowerPoint and videos for better visualization and understanding of complicated audio-visual multimedia, power point presentations, video conferencing, In addition to conventional classroom teaching, most of the lectures are taken with the aid of ICT facilities such as multimedia (LCD projector and PowerPoint).
- Different demonstrations in the form of videos & seminar are also available in the department for students learning process.
- Students are provided with modules which allow them to review a recorded lecture multiple times and learn the course material at their own space.


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- Students also perceived that the hybrid learning approach in department promoted better recall, understanding, application, analysis, and integration of the material compared to a traditional lecture-based course.
- **TCS iON** assists our institutions in increasing their efficiency in admissions, recruitment, learning, skilling, and business operations. It provides students with cutting-edge skill-development methods and brings them closer to recruiters and corporations.


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