

### **List of ICT enabled tools used for teaching and learning**

**1. Virtual skill lab:** Skill lab is equipped with virtual reality technique where students can practice various modules such as

1. Initial Patient Assessment
2. Urinary Catheterization
3. Nasogastric Tube Insertion
4. Electrocardiogram
5. IV Cannulation
6. Arterial Blood Gas Sampling
7. Wound-Care -Ulcer Management
8. Wound Care -Abrasion, Contusion, Laceration
9. IV Infusion
10. Injection Administration -Subcutaneous
11. Injection Administration-Intradermal
12. Prescribing & Administering Oxygen
13. Injection Administration - Intravenous
14. Injection Administration- Intramuscular
15. Blood Grouping & Cross Matching
16. Ophthalmoscopy
17. Otoscopy
18. Collection of swabs- Nasopharyngeal, Nasal

**2. Computer simulation room:** Institute has provided Expharma software for understanding effects of various drugs using computer simulation method. Following modules are available for experiment.

1. Study of analgesic activity with hot plate apparatus
2. Study of analgesic activity with tail flick apparatus
3. Effect of different drugs on frog's heart
4. Experiment on various effects of drugs on rabbit eye
5. Effect of drugs on dog BP and Heart rate
6. Study muscle relaxant activity with rotarod

**3. Virtual Classroom: Microsoft teams Videos and notes:** Every department has created e-learning material in Microsoft department ID that includes videos, quiz and e-notes. Students can get access anytime anywhere using respective user ID.

**4. Digital library:** In collaboration with Doc Tutorial, institute has provided digital learning facility to the students. Doc Tutorial has provided has provided 2 tablets with 24 hours access to the E video content, E notes and MCQs to the students fixed in the central library.

**5. Classroom teaching:** Smart boards, Laptops, Desktops, Projectors, Computer simulated model. The institute has installed ten smart boards in demonstration rooms. There exists a desktop with projector in every class room as well as demonstration room. Computer simulated models installed in department of pharmacology which is used for showing drug effect in various animal models.

**6. Web based learning:** Online journal access, e-books : Students have online access to various journals and some e-books. Student can log-in through delnet and university-based e-consortium to access various medical journals.

**7. Mobile learning/flip classes:** Smart phones with what's app: Teachers of KIMS & RC have created what's app group for the students to provide online videos, or questionnaires to enhance their knowledge and skills.

**8. Educational networking:** Google classrooms: Department of General Surgery uses google classroom to train the students after regular class-room hours.

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