

Medical Supplies, Equipment's & Reagents Course Syllabus

Course title: Medical Supplies, Equipments & Reagents

Course code: Phar 3143

Course EtCTS: 2

ECTS credits: 54 Study hours

- Lecture:16
- Project work: 6 hours
- Presentations=7 hours
- Tutorial: 6 hours
- Home study: 13 hours
- Assessment=6

Pre-requisite if any: - Successful completion of previous modules

Course Description:

- This introductory course is designed to prepare graduate pharmacists who can competently involve in managing the supply of medical supplies, equipment and reagents. Students will be able to differentiate between the different classes of medical supplies and equipment. This course also introduces students with the basic types of diagnostic drugs and reagents. This in turn helps the trainees for ease selection, quantification and procurement of different classes of medical supplies, equipments and reagents which are required by the health establishment or academic institution they shall join.

Course objectives:

After completion of this course students will be able to:

- Identify the different types of Medical Supplies and Equipments commonly used at different settings
- Describe how these Medical Supplies and Equipments function and used.
- Explain how these Medical Supplies and Equipments should be handled, transported and stored safely.
- Identify the different types of Diagnostic Supplies and Reagents
- Describe how these Diagnostic Supplies and Reagents are clinically applied or used.
- Identify the common Medical Supplies and Equipments used in Veterinary Medicine.

Week	Contact hrs	Topic/sub-topic/chapter	Reading materials	Remark
1	1.5	1. Medical Supplies and Equipment (10hr 1.1. Definition of Terms (Medical Supplies, Medical Equipment or Instrument, Reagents)	Reference 1&2	
2	1.5	1.2. Surgical Dressings (Fibres, Fabrics, Bandages, Self -adhesive plasters, Compound dressings etc.)	Reference 1&2	
3	1.5	1.3 Sutures and Ligatures (absorbable sutures, non-absorbable sutures, surgical needles etc.)	Reference 1&2	
4	1.5	1.4 Medicinal Gases (classifications, uses & applications, Safety precaution, and different components, etc.	Reference 1&2	
5	1.5	1.5 Other Medical Supplies (Needles and syringes, Gloves, Masks, Surgical blades, Scissors, Forceps, Catheter, Nasogastric tubes, Endotracheal tubes, rectal tubes).	Reference 1&2	
6	1.5	1.6 Equipments Used in Surgery, Anesthesia, Orthopedics, Ophthalmology, Dentistry, ENT.	Reference 1&2	
7	1.5	1.6 Equipments Used in Surgery, Anesthesia, Orthopedics, Ophthalmology, Dentistry, ENT.....	Reference 1&2	
8	1.5	1.7 Infection Control, Sterilization and Care of Surgical Instruments	Reference 1&2	
9	1.5	2. Diagnostic Supplies and Reagents (4hrs)	Reference 1&2	
10	1.5	2.1. Different Diagnostic Supplies (laryngoscope, otoscope, thermometers, sphygmomanometers, glucometers, X-ray supplies, microscope, stethoscope, etc.	Reference 1&2	

11	1.5	2.1. Diagnostic Imaging Drugs (X-ray contrast agents, Magnetic resonance contrast agents, Ultrasound contrast agents, etc.)	Reference 1&2
12	1.5	2.1 Non-Imaging In-Vivo Diagnostic Drugs (Cardiovascular System, Endocrine System, GIT, Lymphatic System, Reproductive System, Ophthalmic, Urinary Tract, Miscellaneous Skin Antigen Tests, etc.)	Reference 1&2
13	1.5	2.1. Reagents Used in the Medical Laboratory (mycobacterium testing (AFB), pregnancy tests, enteric fever tests, uric acid tests, blood grouping tests, VDRL tests, HIV tests, clinical chemistry test, etc.	Reference 1&2
14	1.5	2.2. Self-Care Diagnostic Devices	Reference 1&2
15	1.5	3. Medical Supplies and Equipments used in Veterinary Medicine (2hrs) 3.1. Peculiar characteristics of Supplies Used in Veterinary Medicine	Reference 3
16	1.5	3.2. Equipments Used for Oral Administration of Drugs 3.3. Equipments Used for Intravenous Administration 3.4. Materials Used for Administration of Topical Medication	Reference 3

Mode of delivery

This course is thought using a variety of instructional methods including

- Illustrated Lectures
- Active learning methods (brain storming, buzz group, discussion, etc)
- Individual and group exercises and assignments
- Presentations and participation in class discussion
- Demonstration and visit

Assessment mechanisms

Continuous assessment & summative assessment

- Assignments: 10%

- Quizzes: 10%
- Presentations: 10%
- Test: 15%
- Visits and report: 15%
- Final exam: 40%

Books recommended:

1. Troy BD (ed) (2006). Remington: The Science and Practice of Pharmacy, 21st ed, Lippincott Williams and Wilkins, Philadelphia
2. Kapur MM (2005). A Complete Hospital Manual of Instruments and Procedures, Jaypee Brothers Medical Publishers Ltd, New Delhi
3. Wanamaker BP, Pettes CL (2000). Applied Pharmacology for the Veterinary Technician, 2nd ed., W.B. Saunders Company, USA.