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|--------------------------------|------------------------|--------------------------|-----------------|--------------------|
| Course Title | Pharmacology-I- | Course Code | 213 PHL | |
| Prerequisite | None | Teaching Language | English | |
| Level | Second year | Credit Hours | 2 H | 2 H Lecture |
| Contact hour/s | | | | |
| | Lecture | Practical | Clinical | Total |
| 1st semester | 1 | 0 | 0 | 1 |
| 2nd semester | 1 | 0 | 0 | 1 |
| | | | | 2 |

Course Description

This course is concerned with the general principles of pharmacology related to the drug pharmacokinetics and pharmacodynamics and their significance in the dental practice. The course widens the students' knowledge on the pharmacological action and therapeutic application of range of drugs used in the dental practice.

Course Aims

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| 1. | To study the general principles of pharmacology that enable the students to use the drug properly and safely in their practice. |
| 2. | To understand the therapeutic indications, contraindications, toxic effects and drug-interaction of commonly used drugs in clinical practice. |
| 3. | To study drugs that are used in emergency cases such as status epilepticus and asthmaticus. |

Course Intended Learning Outcomes:

By the end of this course, the students will be able to:

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| 1. | Discuss basic principles pharmacology science and how it relates to the practice of dentistry. |
| 2. | Demonstrate an understanding of the prescription/use, side effects and cross-reactivity of commonly prescribed drugs in dental practice. |

Course Content

| Topics List | No. of Weeks | Contact Hours |
|--|--------------|---------------|
| Introduction | 1 | 1 |
| General Pharmacology | 4 | 4 |
| NSAIDs | 2 | 2 |
| Pharmacology of the Autonomic Nervous System | 2 | 2 |
| Pharmacology of the CNS | 3 | 3 |
| Antibiotics | 5 | 5 |
| Antifungal Agents and Antiviral Agents | 2 | 2 |
| Antiprotozoal and Anesthetics Agents | 1 | 1 |
| The Proper Use of Antimicrobial Drugs in Clinical Practice | 1 | 1 |
| Antineoplastic Drugs | 1 | 1 |
| Pharmacology of the CVS | 2 | 2 |
| Pharmacology of the Blood | 2 | 2 |
| Pharmacology of the Respiratory System | 1 | 1 |
| Pharmacology of the GIT | 1 | 1 |
| Commonly Prescribed Drugs in Dental Clinics | 1 | 1 |
| Local Anesthetics | 1 | 1 |

Recommended Books, References & Teaching Materials

| Book's Name | Author | Publisher | Year |
|---|--|-----------------|------|
| Lippincott's Illustrated Reviews: Pharmacology | Richard A. Harvey and Pamela C. Champe | J.B. Lippincott | 2011 |
| Pharmacology and Therapeutics for Dentistry | <u>Yagiela</u> , <u>Dowd</u> , <u>Johnson</u> , <u>Mariotti</u> and <u>Neidle</u> | Mosby | 2010 |