

**SECTION-2**  
**CHAPTER-2**  
**GENERAL & DENTAL PHARMACOLOGY & THERAPEUTICS**

**2.2.1.a: AIM:**

The central aim of Pharmacology as the course is two-fold. First, to provide the students with a solid grounding in the basic concepts and scientific underpinnings of Pharmacology. Second, to provide the students with a comprehensive introduction to the fundamental Pharmacology and uses of the major classes of clinically important drugs currently used in medical practice.

**2.2.1.b: OBJECTIVES:**

**i-KNOWLEDGE AND UNDERSTANDING:**

To understand the fundamental scientific principles of drug action and the various mechanisms by which drugs can mediate their pharmacological effects.

To understand the fundamental principles of pharmacokinetics that underly the absorption, distribution, metabolism and elimination of drugs in the body and thereby affect drug effectiveness.

To understand the biochemical reactions that result in the metabolism of drugs within the body.

**ii-SKILLS:**

To understand the rationale behind designing different dosing regimens of particular drugs in specific patient populations.

To understand how specific patient characteristics and genetics can affect the response to a particular class of drugs.

**iii-ATTITUDES:**

To understand the implications of drug prescriptions and prescribing the best possible drug regime.

**2.2.1.c: OUTCOMES:**

The student at the end of this program should be able to rationally treat a patient with no adverse outcomes.