

## OUR OBJECTIVES

At the end of the course, the student should be able to:

- a. Describe basic pharmacological principles within the field of pharmacodynamics and pharmacokinetics.
- b. Describe inter-individual differences in drug metabolism as well as interactions between different drugs.
- c. Describe different classes of receptors which interact with drugs and the mechanisms of drug receptor interaction including signal transduction and second messengers.
- d. Explain principles for central and peripheral neurotransmission,
- e. Discuss mechanisms of action of drugs within the following fields: neuropsychopharmacology, neurology, general anaesthesia, local anaesthesia, analgesia, cardiovascular pharmacology, diuretic drugs, respiratory pharmacology, and gastrointestinal pharmacology,
- f. Describe and explain toxicological principles.
- g. Understand the effects of toxicants and environmental pollutants on organ systems and drug disposition.
- h. Understand and interpret results from laboratory practices in the course.