



**Doctor of Philosophy in Biomedical Sciences
(International Program)**

Name of the Program **Doctor of Philosophy in Biomedical Sciences**
Name of the Degree **Doctor of Philosophy (Biomedical Sciences)**
Ph.D. (Biomedical Sciences)

Objectives

1. To develop human resources specialized in biomedical sciences with knowledge essential for the rapid progress in science and technology
2. To train and produce high caliber graduates with experience in research and education so as to diminish the shortage of relevant national manpower resources, including the rather limited number of university instructors and researchers
3. To develop personnel with vision, good ethics, potential and motivation for self-development, the essence for ensuring qualified academic leaders, who will later become key personnel for scientific development in disease endemic countries.

Study System

Molecular Biology and Bioinformatics

1. Identification and characterization bio-molecular marker for parasite diseases.
2. Genetics analysis of parasite and other micro-organisms.
3. Cellular and molecular pathogenesis and blood disease.

Molecular Immunology and Microbiology

Immunology and Microbiology

1. Molecular basis of Drug Resistance
2. Antibody Technologies
3. Molecular Technology for Genotyping and Diagnosis
4. Molecular Pathogenesis

Transfusion Sciences

1. Immunohematology and Immunogenetics
2. Molecular techniques for genotyping and genetics study.

Clinical Biochemistry and Toxicology

1. Molecular genetics and drug Resistance.
2. Pharmacokinetics and drug metabolisms.

Product Research and Development

1. Drug research and development identification and functional characterization of antimicrobial peptide.

Epidemiology of infectious Diseases

Study the epidemiology of pathogens



Who can apply?

PLAN I: Focusing on research

1. Individual who graduated in Medicine, Dentistry, Veterinary medicine, Pharmaceutical sciences or those with bachelor's degree in Health Sciences, Biological Sciences or related field with a minimum GPA of 3.25 and research experience in a related field with at least one publication in an internationally accredited journals or
2. Individual with Master's degree in Health Sciences, Biological Sciences or related field with a minimum GPA of 3.50 and research experience in a related field with at least one publication in an internationally accredited journal

PLAN II: Focusing on research with Coursework

1. Individual who graduated in Medicine, Dentistry, Veterinary medicine, Pharmaceutical sciences with a minimum GPA of 3.00 or those with bachelor's degree in Health Sciences, Biological Sciences or related field with an honor degree or distinguished learning achievement and a minimum GPA of 3.25 or
2. Individual with Master's degree in Health Sciences, Biological Sciences or related field with a minimum GPA of 3.25

Selection of Applicant

1. Selection of applications will be based primarily on written examination and interview
2. English proficiency requirement TU-GET (400 or higher) or TOEFL-iBT (79-80) or IELTS (6.0)