

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 501211 **Description:** Anatomy & Histology

Full Course Description: This course aims to enable students to identify the various organs of the systems forming the human body and study the anatomical structures and features of each part of human body. The course concentrated in identifying the histology and anatomy of skeletal, muscular, cardiovascular, lymphatic, nervous, digestive, respiratory, reproductive, and endocrine systems.

Couse ID: 501221 **Description:** Biochemistry

Full Course Description: This course studies the major concepts in biochemistry including: composition and function of water molecules, amino acids and proteins, enzymes, carbohydrates and lipids. Also the course focuses on explaining chemical structures and functions of these compounds and their association with various types of disorders and disease.

Couse ID: 501233 **Description:** Histopathological & Cytological Techniques

Full Course Description:

Couse ID: 501241 **Description:** Basic Medical Microbiology

Full Course Description: The fundamentals of microbiology: Lectures are focused on the structure, physiology and genetics of prokaryotic and eukaryotic microorganisms and their interaction with human host. Laboratory sessions are focused on safety precautions, pure culture techniques, methods of staining and the microscopic appearance of microorganisms. The Laboratory is 3 hours and separated as single course and is not given to nursing students.□
The students are expected to earn the basic conceptual background in medical microbiology to enable them to handle future courses on advanced medical microbiology, such as diagnostic bacteriology, diagnostic virology, diagnostic mycology and diagnostic parasitology for medical laboratory sciences students; and food microbiology for clinical nutrition students. This course enables nursing students to consider microbial infections in various medial sittings such as hospitals and health care centers and maintain useful informative background for infection control and medical procedures.□

Couse ID: 501242 **Description:** Immunology

Full Course Description: This course studies principles of the immune system and its molecular and cellular interactions. The major topics include: the development of the immune system, cellular and humoral immune responses, innate and adaptive branches of the immune system, immune disorders such as autoimmunity and immunodeficiency and immunization.□
. It provides students with knowledge required to perform different serological techniques used in disease diagnosis. It consists of the theory, application, and performance of common serological testing used in a clinical laboratory such as agglutination reactions, precipitation reactions, direct and indirect hemagglutination and immunodiffusion. The course is accompanied by practical laboratory sessions.

Couse ID: 501246 **Description:** Epidemiology

Full Course Description:

Couse ID: 501252 **Description:** Human Genetics

Full Course Description:

Couse ID: 501254 **Description:** Human Embryology

Full Course Description:

Couse ID: 501313 **Description:** Endocrinology

Full Course Description: This deals with the basic substance and elements in the human body, enzymes, vitamins and various hormones. Side work also includes various work to uncover the body's working systems.

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 501316 **Description:** Reproductive Physiology

Full Course Description:

Couse ID: 501321 **Description:** Clinical chemistry (1)

Full Course Description:

Couse ID: 501322 **Description:** Clinical chemistry (2)

Full Course Description:

Couse ID: 501323 **Description:** Instrumental & Chemical Analysis

Full Course Description: The course aims to provide students with comprehensive understanding of important topics in instrumental techniques and methods in biomedical labs. This course helps the students to build an advanced integrated knowledge of key subjects in analytical chemistry, including chromatography, photometry, atomic spectroscopy, and mass spectrometry .

Couse ID: 501324 **Description:** Urinalysis & Body Fluids

Full Course Description:

Couse ID: 501331 **Description:** Clinical Hematology (1)

Full Course Description: The course is designed to introduce students to the basic concepts and techniques in the hematology laboratory. This entails the systematic coverage of formation, functions, disorders, and blood tests of red blood cells, hemoglobin, platelets, white blood cells, and coagulation systems. The practical work in the course is designed to expand and reinforce the ideas introduced in the lectures. Enough background and instructions on laboratory methods and instrumentation are provided to enable satisfactory laboratory performance. Automation is also stressed with a special emphasis on the various automated processes used in hematology, ranging from the simple analysers to the more complex electronic analysers used in the department.

Couse ID: 501332 **Description:** Clinical Hematology (2)

Full Course Description: This subject covers disease processes related to hereditary, acquired, benign and malignant disorders of hematological systems; correlation of physiological processes, pathological states and diagnostic tools in hematology; light microscopic morphological examination of peripheral blood and bone marrow in diseases and correlation of these findings with indices and cell counts obtained by automated laboratory equipment; procedures for detection and precise diagnosis of anaemias, hemoglobin disorders, hemostatic disorders, hematological malignancies; the World Health Organization classification of hematological malignancies; introduction to cytogenetics; prenatal diagnosis of genetic disease, genetic counselling and cancer cytogenetics.

Couse ID: 501341 **Description:** Clinical Microbiology

Full Course Description: Lectures are focused on the medically important bacteria,□ exploring pathology, pathogenesis, laboratory diagnosis and management. Laboratory sessions□ are focused on bacteriologic techniques for isolation of bacteria from clinical specimens,□ differential biochemical identification and antibiotic sensitivity testing.□

Couse ID: 501342 **Description:** Medical Microbiology For Nursing

Full Course Description:

Couse ID: 501343 **Description:** Medical Parasitology

Full Course Description: The course is designed to provide the student with basic knowledge and information on human parasites of medical importance, especially protozoa and helminths. The course will cover parasites basic life cycles, epidemiology, modes of transmission, clinical features, laboratory diagnosis, as well as physiological and immunological interactions between parasites and their hosts.

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 501344 **Description:** Medical Virology

Full Course Description:

Couse ID: 501345 **Description:** Medical Microbiology For Nursing

Full Course Description:

Couse ID: 501348 **Description:** Diagnostic Immunology & Serology

Full Course Description: This course introduces the concepts of diagnostic immunology and serology for clinical laboratory practice. It covers essential theoretical principles along with basic serology techniques most commonly used in the laboratory. It provides students with knowledge required to perform different serological techniques used in disease diagnosis. It consists of the theory, application, and performance of common serological testing used in a clinical laboratory such as agglutination reactions, precipitation reactions, direct and indirect hemagglutination and immunodiffusion. The course is accompanied by practical laboratory sessions.

Couse ID: 501352 **Description:** Genetic Counseling

Full Course Description:

Couse ID: 501362 **Description:** Quality Control

Full Course Description:

Couse ID: 501373 **Description:** Computers in Medical Laboratory Sciences

Full Course Description:

Couse ID: 501425 **Description:** Pharmacology

Full Course Description:

Couse ID: 501429 **Description:** Internship in Clinical Chemistry and special test

Full Course Description:

Couse ID: 501434 **Description:** Internship In Histopathology & cytopathology

Full Course Description:

Couse ID: 501435 **Description:** Tissue Culture

Full Course Description:

Couse ID: 501439 **Description:** Internship in Hematology & Blood Banking

Full Course Description:

Couse ID: 501441 **Description:** Diagnostic Immunology

Full Course Description:

Couse ID: 501444 **Description:** Community Health

Full Course Description:

Couse ID: 501448 **Description:** Medical Virology

Full Course Description:

Couse ID: 501449 **Description:** Internship in Medical Microbiology

Full Course Description:

Couse ID: 501451 **Description:** Molecular Biology & celluler Genetics

Full Course Description:

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 501461 **Description:** Medical Ethics

Full Course Description:

Couse ID: 501462 **Description:** Laboratory Management

Full Course Description:

Couse ID: 501491 **Description:** Seminar

Full Course Description: This course is designed to train students to search for, read and understand published scientific papers and defend and criticize the published work. It consists of a series of introductory lectures, class exercises followed by presentations held by students. Students will be trained to present in class and critically analyze original manuscripts, gain experience in formulating questions, and participating in scientific discussion of current research.

Couse ID: 501492 **Description:** Advanced Research methodology

Full Course Description:

Couse ID: 501493 **Description:** Recent research studies

Full Course Description:

Couse ID: 501495 **Description:** Special Topics

Full Course Description: This course covers different topics in medical science research such as information sources in medical science; medical data bases, abstracting journals, use of original articles and reviews; verbal presentation of information; a substantial review of the scientific literature on a up to date selected techniques of medical science

Couse ID: 2501212 **Description:** Human Physiology

Full Course Description: This course will concentrate on the basic functions of the human body, including cells, muscles, Nervous, Blood, Heart, Blood vessels, and urinary. More emphasis will be focused on mechanisms involved in the physiological processes.

Couse ID: 2501213 **Description:** Anatomy

Full Course Description:

Couse ID: 2501214 **Description:** Human Physiology

Full Course Description:

Couse ID: 2501221 **Description:** Biochemistry

Full Course Description: This course studies the major concepts in biochemistry including: composition and function of water molecules, amino acids and proteins, enzymes, carbohydrates and lipids. Also the course focuses on explaining chemical structures and functions of these compounds and their association with various types of disorders and disease.

Couse ID: 2501311 **Description:** Pathology

Full Course Description: This course deals with the basic concepts of pathology and the changes that occur in organs as a result of diseases such as diseases of the circulatory system, bones, joints, infections, and others.

Couse ID: 2501325 **Description:** Toxicology

Full Course Description:

Couse ID: 2501341 **Description:** Clinical Microbiology

Full Course Description: Lectures are focused on the medically important bacteria,□ exploring pathology, pathogenesis, laboratory diagnosis and management. Laboratory sessions□ are focused on bacteriologic techniques for isolation of bacteria from clinical specimens,□ differential biochemical identification and antibiotic sensitivity testing.□

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 2501348 **Description:** EEEE

Full Course Description: This course introduces the concepts of diagnostic immunology and serology for clinical laboratory practice. It covers essential theoretical principles along with basic serology techniques most commonly used in the laboratory. It provides students with knowledge required to perform different serological techniques used in disease diagnosis. It consists of the theory, application, and performance of common serological testing used in a clinical laboratory such as agglutination reactions, precipitation reactions, direct and indirect hemagglutination and immunodiffusion. The course is accompanied by practical laboratory sessions.

Couse ID: 2501352 **Description:** Genetic Counseling

Full Course Description:

Couse ID: 2501361 **Description:** Principles of Medicine

Full Course Description:

Couse ID: 2501425 **Description:** Pharmacology

Full Course Description:

Couse ID: 2501431 **Description:** Blood Bank

Full Course Description: Blood Banking deals with the study of immunologic principles applied in blood group specific antigens and antibodies and its application in transfusion medicine. It also deals with the mechanisms of blood typing and crossmatching, antihuman globulin testing, detection and identification of antibodies, screening of donors for blood donation, preparation and storage of blood components.

Couse ID: 2501442 **Description:** Medical Mycology

Full Course Description:

Couse ID: 2501443 **Description:** Medical Mycology

Full Course Description: www

Couse ID: 2501447 **Description:** Internship In Clinical Immunology

Full Course Description:

Couse ID: 2501449 **Description:** Internship in Medical Microbiology

Full Course Description:

Couse ID: 3501311 **Description:** Pathology

Full Course Description: This course deals with the basic concepts of pathology and the changes that occur in organs as a result of diseases such as diseases of the circulatory system, bones, joints, infections, and others.

Couse ID: 110501210 **Description:** Microtechnique Practical

Full Course Description: cczx

Couse ID: 110501216 **Description:** Human Anatomy Practical

Full Course Description: In the practical aspect of human anatomy, different models have been used to facilitate identification the anatomical features of organs of the human body systems.

Couse ID: 110501217 **Description:** Histology

Full Course Description: sa

Couse ID: 110501218 **Description:** Histology Practical

Full Course Description: gf

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 110501219 **Description:** Microtechnique

Full Course Description: dsfsd

Couse ID: 110501223 **Description:** Human Physiology / Practical

Full Course Description: jk

Couse ID: 110501231 **Description:** Biochemistry

Full Course Description: Biochemistry involves the study of the molecular composition of living cells, the organization of biological molecules within the cell, and the structure and function of these biological molecules (proteins, polysaccharides, lipids and nucleic acids). This course will concentrate on the structures of these molecules, their functions, and the strong relationship between structure and function. Other topics to be examined in the course include the kinetics and catalytic mechanisms of enzymes. Methods and approaches used in biochemical research will be presented as will the biochemical basis of some disease states.

Couse ID: 110501232 **Description:** Practical Biochemistry

Full Course Description: das

Couse ID: 110501244 **Description:** Medical Microbiology Practical

Full Course Description: hjj

Couse ID: 110501252 **Description:** Hematology (1)

Full Course Description: The course is designed to introduce students to the basic concepts and techniques in the hematology laboratory. This entails the systematic coverage of formation, functions, disorders, and blood tests of red blood cells, hemoglobin, platelets, white blood cells, and coagulation systems. The practical work in the course is designed to expand and reinforce the ideas introduced in the lectures. Enough background and instructions on laboratory methods and instrumentation are provided to enable satisfactory laboratory performance. Automation is also stressed with a special emphasis on the various automated processes used in hematology, ranging from the simple analysers to the more complex electronic analysers used in the department.

Couse ID: 110501256 **Description:** Hematology / Practical

Full Course Description: hj

Couse ID: 110501311 **Description:** Pathology

Full Course Description: This course deals with the basic concepts of pathology and the changes that occur in organs as a result of diseases such as diseases of the circulatory system, bones, joints, infections, and others.

Couse ID: 110501322 **Description:** Clinical Chemistry

Full Course Description: kl

Couse ID: 110501323 **Description:** Practical Clinical Chemistry

Full Course Description: This course trains students to carry out examinations related to clinical chemistry and trains them to deal with medical samples and various laboratory equipment.

Couse ID: 110501325 **Description:** Toxicology

Full Course Description: dsfs

Couse ID: 110501333 **Description:** Endocrinology

Full Course Description: This deals with the basic substance and elements in the human body, enzymes, vitamins and various hormones. Side work also includes various work to uncover the body's working systems.

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 110501334 **Description:** Practical Endocrinology

Full Course Description: This deals with the basic substance and elements in the human body, enzymes, vitamins and various hormones. Side work also includes various work to uncover the body's working systems.

Couse ID: 110501335 **Description:** Urine and Body Fluid Analysis

Full Course Description: j

Couse ID: 110501336 **Description:** Urine and Body Fluid Analysis / Practical

Full Course Description: zx

Couse ID: 110501337 **Description:** Molecular Biology and Cell Genetics

Full Course Description: jh

Couse ID: 110501338 **Description:** Molecular Biology and Cell Genetics/ Practical

Full Course Description: as

Couse ID: 110501345 **Description:** Diagnostic Microbiology

Full Course Description: Lectures are focused on the medically important bacteria,□ exploring pathology, pathogenesis, laboratory diagnosis and management. Laboratory sessions□ are focused on bacteriologic techniques for isolation of bacteria from clinical specimens,□ differential biochemical identification and antibiotic sensitivity testing.□

Couse ID: 110501346 **Description:** Diagnostic Microbiology Practical

Full Course Description: zx

Couse ID: 110501347 **Description:** Medical Parasitology

Full Course Description: The course is designed to provide the student with basic knowledge and information on human parasites of medical importance, especially protozoa and helminths. The course will cover parasites basic life cycles, epidemiology, modes of transmission, clinical features, laboratory diagnosis, as well as physiological and immunological interactions between parasites and their hosts.

Couse ID: 110501349 **Description:** Medical Parasitology Practical

Full Course Description: s

Couse ID: 110501353 **Description:** Hematology (2)

Full Course Description: This subject covers disease processes related to hereditary, acquired, benign and malignant disorders of hematological systems; correlation of physiological processes, pathological states and diagnostic tools in hematology; light microscopic morphological examination of peripheral blood and bone marrow in diseases and correlation of these findings with indices and cell counts obtained by automated laboratory equipment; procedures for detection and precise diagnosis of anaemias, hemoglobin disorders, hemostatic disorders, hematological malignancies; the World Health Organization classification of hematological malignancies; introduction to cytogenetics; prenatal diagnosis of genetic disease, genetic counselling and cancer cytogenetics.

Couse ID: 110501354 **Description:** Practical Hematology (2)

Full Course Description: asd

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 110501355 **Description:** Immunology and Serology

Full Course Description: This course introduces the concepts of diagnostic immunology and serology for clinical laboratory practice. It covers essential theoretical principles along with basic serology techniques most commonly used in the laboratory. It provides students with knowledge required to perform different serological techniques used in disease diagnosis. It consists of the theory, application, and performance of common serological testing used in a clinical laboratory such as agglutination reactions, precipitation reactions, direct and indirect hemagglutination and immunodiffusion. The course is accompanied by practical laboratory sessions.

Couse ID: 110501356 **Description:** Practical Immunology and Serology

Full Course Description: a

Couse ID: 110501362 **Description:** Quality Control

Full Course Description: sdf

Couse ID: 110501364 **Description:** Epidemiology

Full Course Description: dsfs

Couse ID: 110501365 **Description:** Human Genetics

Full Course Description: sdf

Couse ID: 110501366 **Description:** Human Genetics Practical

Full Course Description: dsfsd

Couse ID: 110501367 **Description:** Developmental Biology

Full Course Description: sdf

Couse ID: 110501368 **Description:** Developmental Biology Practical

Full Course Description: dsfsd

Couse ID: 110501415 **Description:** Internship in Tissue culture

Full Course Description: dsf

Couse ID: 110501424 **Description:** Oncology

Full Course Description: This course will cover the molecular and cellular events lead to tumor formation, progression, and metastasis. Students will learn about the clinical aspects of different types of cancer, diagnostic procedures, tests and the specific therapies. Examples of molecular genetic and other biological events related to cancer etiology, symptoms and targets for cancer therapy will be given in addition to other clinical aspects. Emphasis is on the correlation between the molecular basis of cancer and its clinical implications.

Couse ID: 110501435 **Description:** Cell Culture

Full Course Description: sdas

Couse ID: 110501436 **Description:** Cell Culture Practical

Full Course Description: jk

Couse ID: 110501437 **Description:** Internship in Clinical Chemistry and Molecular Biology

Full Course Description: sd

Couse ID: 110501445 **Description:** Internship in Clinical Microbiology

Full Course Description: dsa

Couse ID: 110501446 **Description:** Mycology and Virology

Full Course Description: as

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 110501447 **Description:** Internship (2)

Full Course Description: kk

Couse ID: 110501453 **Description:** Blood Bank

Full Course Description: Blood Banking deals with the study of immunologic principles applied in blood group specific antigens and antibodies and its application in transfusion medicine. It also deals with the mechanisms of blood typing and crossmatching, antihuman globulin testing, detection and identification of antibodies, screening of donors for blood donation, preparation and storage of blood components.

Couse ID: 110501454 **Description:** Blood Bank Practical

Full Course Description: dsf

Couse ID: 110501455 **Description:** Internship in Blood & Blood Bank

Full Course Description: fds

Couse ID: 110501456 **Description:** Internship in Clinical Immunology

Full Course Description: czx

Couse ID: 110501457 **Description:** Internship (1)

Full Course Description: tt

Couse ID: 110501491 **Description:** Seminar in Laboratory Science

Full Course Description: This course is designed to train students to search for, read and understand published scientific papers and defend and criticize the published work. It consists of a series of introductory lectures, class exercises followed by presentations held by students. Students will be trained to present in class and critically analyze original manuscripts, gain experience in formulating questions, and participating in scientific discussion of current research.

Couse ID: 110501495 **Description:** Special Topics in Laboratory Science

Full Course Description: This course covers different topics in medical science research such as information sources in medical science; medical data bases, abstracting journals, use of original articles and reviews; verbal presentation of information; a substantial review of the scientific literature on a up to date selected techniques of medical science

Couse ID: 140501225 **Description:** Pharmacology

Full Course Description: سديسي

Couse ID: 140501324 **Description:** Body Fluids Analysis

Full Course Description: تهتمتك

Couse ID: 140501332 **Description:** Clinical Chemistry (1)

Full Course Description: This course trains students to carry out examinations related to clinical chemistry and trains them to deal with medical samples and various laboratory equipment.

Couse ID: 140501333 **Description:** Clinical Chemistry (2)

Full Course Description: نمكنت

Couse ID: 140501344 **Description:** Medical Parasitology

Full Course Description: The course is designed to provide the student with basic knowledge and information on human parasites of medical importance, especially protozoa and helminths. The course will cover parasites basic life cycles, epidemiology, modes of transmission, clinical features, laboratory diagnosis, as well as physiological and immunological interactions between parasites and their hosts.

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 140501352 **Description:** Hematology (2)

Full Course Description: This subject covers disease processes related to hereditary, acquired, benign and malignant disorders of hematological systems; correlation of physiological processes, pathological states and diagnostic tools in hematology; light microscopic morphological examination of peripheral blood and bone marrow in diseases and correlation of these findings with indices and cell counts obtained by automated laboratory equipment; procedures for detection and precise diagnosis of anaemias, hemoglobin disorders, hemostatic disorders, hematological malignancies; the World Health Organization classification of hematological malignancies; introduction to cytogenetics; prenatal diagnosis of genetic disease, genetic counselling and cancer cytogenetics.

Couse ID: 140501354 **Description:** Diagnostic Immunology and Serology

Full Course Description: This course introduces the concepts of diagnostic immunology and serology for clinical laboratory practice. It covers essential theoretical principles along with basic serology techniques most commonly used in the laboratory. It provides students with knowledge required to perform different serological techniques used in disease diagnosis. It consists of the theory, application, and performance of common serological testing used in a clinical laboratory such as agglutination reactions, precipitation reactions, direct and indirect hemagglutination and immunodiffusion. The course is accompanied by practical laboratory sessions.

Couse ID: 140501423 **Description:** Endocrine Glands

Full Course Description: This deals with the basic substance and elements in the human body, enzymes, vitamins and various hormones. Side work also includes various work to uncover the body's working systems.

Couse ID: 140501446 **Description:** Medical Virology

Full Course Description: منكمناك

Couse ID: 140501453 **Description:** Phlebotomy and Blood Banking

Full Course Description: Blood Banking deals with the study of immunologic principles applied in blood group specific antigens and antibodies and its application in transfusion medicine. It also deals with the mechanisms of blood typing and crossmatching, antihuman globulin testing, detection and identification of antibodies, screening of donors for blood donation, preparation and storage of blood components.

Couse ID: 140501462 **Description:** Research Methods in Medical Laboratory Sciences

Full Course Description: سشيش

Couse ID: 140501471 **Description:** Field Training (1)

Full Course Description: يسسيبيس

Couse ID: 140501472 **Description:** Field Training (2)

Full Course Description: بيليل

Couse ID: 2005011161 **Description:** Medical Terminology

Full Course Description:

Couse ID: 2005011213 **Description:** Micro-techniques for Histopathology□

Full Course Description:

Couse ID: 2005011214 **Description:** Micro-techniques for Histopathology / Practical

Full Course Description:

Couse ID: 2005011215 **Description:** Embryology

Full Course Description:

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 2005011221 **Description:** Medical Human Physiology

Full Course Description: This course will concentrate on the basic functions of human body, including cell, muscles, Nervous, Blood, Heart, Blood vessels, urinary. More emphasis will be focused on mechanisms involved in the physiological processes.

Couse ID: 2005011231 **Description:** Medical Biochemistry

Full Course Description: This course studies the major concepts in biochemistry including: composition and function of water molecules, amino acids and proteins, enzymes, carbohydrates and lipids. Also the course focuses on explaining chemical structures and functions of these compounds and their association with various types of disorders and disease.

Couse ID: 2005011233 **Description:** Metabolism and Protein Chemistry

Full Course Description:

Couse ID: 2005011234 **Description:** Human Genetics

Full Course Description:

Couse ID: 2005011241 **Description:** Basic Medical Microbiology

Full Course Description: The fundamentals of microbiology: Lectures are focused on the structure, physiology and genetics of prokaryotic and eukaryotic microorganisms and their interaction with human host. Laboratory sessions are focused on safety precautions, pure culture techniques, methods of staining and the microscopic appearance of microorganisms. The Laboratory is 3 hours and separated as single course and is not given to nursing students.□
The students are expected to earn the basic conceptual background in medical microbiology to enable them to handle future courses on advanced medical microbiology, such as diagnostic bacteriology, diagnostic virology, diagnostic mycology and diagnostic parasitology for medical laboratory sciences students; and food microbiology for clinical nutrition students. This course enables nursing students to consider microbial infections in various medial sittings such as hospitals and health care centers and maintain useful informative background for infection control and medical procedures.□

Couse ID: 2005011251 **Description:** Hematology (1)

Full Course Description: The course is designed to introduce students to the basic concepts and techniques in the hematology laboratory. This entails the systematic coverage of formation, functions, disorders, and blood tests of red blood cells, hemoglobin, platelets, white blood cells, and coagulation systems. The practical work in the course is designed to expand and reinforce the ideas introduced in the lectures. Enough background and instructions on laboratory methods and instrumentation are provided to enable satisfactory laboratory performance. Automation is also stressed with a special emphasis on the various automated processes used in hematology, ranging from the simple analyzers to the more complex electronic analyzers used in the department.

Couse ID: 2005011252 **Description:** Introduction to Immunology

Full Course Description: This course studies principles of the immune system and its molecular and cellular interactions. The major topics include: the development of the immune system, cellular and humoral immune responses, innate and adaptive branches of the immune system, immune disorders such as autoimmunity and immunodeficiency and immunization.

Couse ID: 2005011261 **Description:** Special Topics in Medical Laboratory Sciences

Full Course Description: This course covers different topics in medical science research such as information sources in medical science; medical data bases, abstracting journals, use of original articles and reviews; verbal presentation of information; a substantial review of the scientific literature on a up to date selected techniques of medical science

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 2005011312 **Description:** Oncology

Full Course Description: This course will cover the molecular and cellular events lead to tumor formation, progression, and metastasis. Students will learn about the clinical aspects of different types of cancer, diagnostic procedures, tests and the specific therapies. Examples of molecular genetic and other biological events related to cancer etiology, symptoms and targets for cancer therapy will be given in addition to other clinical aspects. Emphasis is on the correlation between the molecular basis of cancer and its clinical implications.

Couse ID: 2005011313 **Description:** Cells Culture

Full Course Description:

Couse ID: 2005011321 **Description:** Pathophysiology

Full Course Description:

Couse ID: 2005011334 **Description:** Molecular Biology and Cell Genetics

Full Course Description:

Couse ID: 2005011341 **Description:** Diagnostic Microbiology

Full Course Description: Lectures are focused on the medically important bacteria,□ exploring pathology, pathogenesis, laboratory diagnosis and management. Laboratory sessions□ are focused on bacteriologic techniques for isolation of bacteria from clinical specimens,□ differential biochemical identification and antibiotic sensitivity testing.□

Couse ID: 2005011343 **Description:** Molecular Diagnosis of Infectious Diseases

Full Course Description:

Couse ID: 2005011344 **Description:** Epidemiology

Full Course Description:

Couse ID: 2005011351 **Description:** Diagnostic Immunology and Serology

Full Course Description: This course introduces the concepts of diagnostic immunology and serology for clinical laboratory practice. It covers essential theoretical principles along with basic serology techniques most commonly used in the laboratory. It provides students with knowledge required to perform different serological techniques used in disease diagnosis. It consists of the theory, application, and performance of common serological testing used in a clinical laboratory such as agglutination reactions, precipitation reactions, direct and indirect hemagglutination and immunodiffusion. The course is accompanied by practical laboratory sessions.

Couse ID: 2005011353 **Description:** Blood Bank

Full Course Description: Blood Banking deals with the study of immunologic principles applied in blood group specific antigens and antibodies and its application in transfusion medicine. It also deals with the mechanisms of blood typing and crossmatching, antihuman globulin testing, detection and identification of antibodies, screening of donors for blood donation, preparation and storage of blood components.

Couse ID: 2005011354 **Description:** Haematopoietic Stem Cell Science

Full Course Description:

Couse ID: 2005011361 **Description:** Instrumental Analysis in Medical Laboratories

Full Course Description: يهدف المقرر إلى تزويد الطلاب بفهم شامل للموضوعات الهامة في التقنيات والأساليب الآلية في مختبرات الطب الحيوي. يساعد هذا المقرر الطلاب على بناء معرفة متكاملة متقدمة بالمواضيع الرئيسية في الكيمياء التحليلية، بما في ذلك القياس اللوني والقياس الضوئي والمطياف الذري ومطياف الكتلة.

Courses Description

College: Applied Medical Sciences

Department: Medical Laboratory Sciences

Couse ID: 2005011362 **Description:** Research methods and Biostatistics

Full Course Description:

Couse ID: 2005011363 **Description:** Introduction to Biotechnology

Full Course Description:

Couse ID: 2005011441 **Description:** Medical Mycology

Full Course Description:

Couse ID: 2005011460 **Description:** "Quality control and Medical Laboratory Management

Full Course Description:

Couse ID: 2005011461 **Description:** Ethics and safety in Medical Laboratories

Full Course Description:

Couse ID: 2005011462 **Description:** Seminar in Medical Laboratory Sciences

Full Course Description: This course is designed to train students to search for, read and understand published scientific papers and defend and criticize the published work. It consists of a series of introductory lectures, class exercises followed by presentations held by students. Students will be trained to present in class and critically analyze original manuscripts, gain experience in formulating questions, and participating in scientific discussion of current research.

Couse ID: 2005011471 **Description:** Field Training (1)

Full Course Description:

Couse ID: 2005011472 **Description:** Field Training (2)

Full Course Description:

Couse ID: 2005011473 **Description:** Field Training (3)

Full Course Description:

Couse ID: 2005011474 **Description:** Field Training (4)

Full Course Description: