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UNIVERSITI KUALA LUMPUR
INSTITUTE OF MEDICAL SCIENCE TECHNOLOGY
(UniKL-MESTECH)

www.unikl.edu.my

UNIVERSITI KUALA LUMPUR KAMPUS CAWANGAN INSTITUTE OF MEDICAL SCIENCE TECHNOLOGY (UniKL-MESTECH)

Universiti Kuala Lumpur Kampus Cawangan Institute of Medical Science Technology (UniKL-MESTECH) aspires to become the premier institution in providing knowledge and skills in Biomedical Laboratory Science and Environmental Health Science. It aims to fulfill the demands of both the government and private sectors for biomedical technologists, and offers Diploma and Bachelor programs in Medical Science Technology beginning July 2008

It is located at the bustling town of Kajang, approximately 30km from the capital center of Kuala Lumpur and 15km from Putrajaya. It is well connected location especially with expanding train lines including MRT, KTM and highway networks, giving it ease of access to the city centre.



PROGRAMS OFFERED

Bachelor of Biomedical Science (Honours)
JPT/BPP (R3/722/6/0002) 06/30, MQA A 8827

Bachelor of Environmental Health (Honours)
JPT/BPP (R3/0521/6/0017) 06/30, MQA A 8828

Bachelor of Occupational Safety And Health (Honours)
JPT/BPP (N/862/6/0077) 03/26, MQA/PA 10074

Diploma of Medical Laboratory Technology
JPT/BPP (R3/0914/4/0025) 06/28, MQA A 8824

Diploma In Environmental Health
JPT/BPP (R3/0521/4/0029) 06/28, MQA A 8825

Diploma In Medical And Health Sciences
JPT/BPP (R/722/4/0008) 01/24, MQA/FA 4941

ENTRY REQUIREMENTS

BACHELOR PROGRAMS

- All applicant must have achieved MUET Band 3 AND; Pass in Matriculation/Pre-University/STPM program or equivalent qualification with minimum GPA 2.33 in TWO (2) of the following subjects;
 - i. Biology
 - ii. Physics/Mathematics
 - iii. Chemistry**OR**
- A-Level program or equivalent qualification with minimum Grade D in TWO (2) of the following subjects; 2 of the following subjects; Biology, Chemistry, Physic/Mathematics; **OR**
- Pass in International Baccalaureate (IB) with at least 24 points; **OR**
- Recognized Diploma with minimum CGPA of 2.75 in related field; **OR**
- Pass Diploma Kemahiran Malaysia (DKM)/ Diploma Lanjutan Kemahiran Malaysia (DLKM)/ Diploma Vokasional Malaysia (DVM) with a minimum CGPA of 2.75 and the program must get Full Accreditation (FA) by MQA or others Accreditation bodies that had been recognized by government of Malaysia and according to approval by UniKL Senate; **OR**
- Pass the DKM/DLKM/DVM with a minimum CGPA of 2.00 AND have at least three (3) years of work experience in the related field. The program must get Full Accreditation (FA) by MQA or others Accreditation bodies that had been recognized by government of Malaysia and according to approval by UniKL Senate

BACHELOR OF OCCUPATIONAL SAFETY AND HEALTH (HONOURS)

- A pass in STPM with minimum of Grade C (GP 2.00) in any TWO subjects*; **OR**
- A pass in STAM with at least Grade Jayyid*; **OR**
- Matriculation of Foundation with at least a CGPA of 2.00*; **OR**
- A Diploma (Level 4, MQF) with at least a CGPA of 2.00*; **OR**
- A Diploma Kemahiran Malaysia (DKM) / Diploma Vokasional Malaysia (DVM); **OR**
- Other relevant equivalent qualifications recognised by the Malaysian Government.
Additional requirement for i-iv: A credit in ONE science subject (Biology/Chemistry/Physics/ General Science) at SPM level or equivalent qualifications.

DIPLOMA IN ENVIRONMENTAL HEALTH & DIPLOMA OF MEDICAL LABORATORY

- Pass in SPM or its equivalent with pass in Bahasa Melayu and English and five (5) credits in the following subjects:
- Mathematics, one (1) Science subject (Biology, Chemistry, Physics, General Science/Applied Science) and any other three (3) subjects including Bahasa Melayu and/or English; **OR**
- Certificate related to Health Sciences with minimum CGPA 2.75

DIPLOMA IN MEDICAL AND HEALTH SCIENCES

- Pass in SPM or equivalent with minimum five (5) credits in the following subjects: -
 - (a) Bahasa Melayu
 - (b) Science subjects;
 - Biology or Chemistry; **OR**
 - Physic with pass in Biology ; **OR**
 - Science/ General Science/ Applied Science
 - (c) Mathematics, **OR** Additional Mathematics
 - (d) TWO (2) credits from any other subjects
 - (e) Pass in English**OR**
- GCE O Level or equivalent with 5 credits in the following subjects:
 - TWO (2) from science subjects or Mathematics subjects (Biology/Physics/ Chemistry/ General Science)
 - Three (3) from any other subjects ; **AND**
 - Pass in English ; **OR**
 - Candidates with other relevant qualifications subject to approval by the MAB.**AND**
- Health Status
All selected student are confirmed in a good health status by a registered medical practitioner and free from:
 - (a) Mental Illness
 - (b) Physical and sensory disabilities
 - (c) HIV-AIDS
 - (d) Hepatitis B and C
 - (e) Epilepsy
 - (f) Drugs addiction and substance abuse

BACHELOR OF BIOMEDICAL SCIENCE (HONOURS)

JPT/BPP (R3/722/6/0002) 06/30, MQA A 8827

PROGRAM CONTENTS

YEAR 1 - SEMESTER 1

- Fundamental English
- Professional English 1
- Falsafah & Isu Semasa
- Bahasa Melayu Komunikasi 2
- Cell Biology
- Human Anatomy
- Health Informatics
- Philosophy of Education

YEAR 1 - SEMESTER 2

- Human Genetics
- Basic Microbiology
- Human Biochemistry
- Human Physiology
- Introduction Clinical Laboratory Science
- Professional English 2
- Penghayatan Etika & Peradaban
- Philosophy and Current Issues

YEAR 2 - SEMESTER 3

- Human Pharmacology
- Basic Hematology
- Pathogenic Microbiology
- Principles of Immunology
- Principles of Psychology
- Foreign Language 1
- Co-curriculum

YEAR 2 - SEMESTER 4

- Bioethics
- Medical Parasitology and Entomology
- Toxicology
- Basic and Systemic Pathology
- Community Health and Epidemiology
- Foreign Language 2
- Isu-isu Kotemporari Muslim di Malaysia
- Culture and Lifestyle in Malaysia (Local Non-Muslim & International Students)

YEAR 3 - SEMESTER 5

- Biostatistics
- Clinical Laboratory Immunology and Serology
- Scientific Communication
- Clinical Laboratory Cytopathology
- Clinical Biochemistry
- Molecular Diagnostics Technology

YEAR 3 - SEMESTER 6

- Clinical Laboratory Histology
- Clinical Laboratory Microbiology
- Advanced Hematology
- Final Year Project 1
- Technopreneurship
- Elective 1

YEAR 4 - SEMESTER 7

- Transfusion Science and Blood Banking
- Innovation Management
- Elective 2
- Final Year Project 2

YEAR 4 - SEMESTER 8t

- Industrial Training

ELECTIVE SUBJECTS

ELECTIVE SUBJECTS 1

- Urinalysis and Body Fluids
- Cell Culture Techniques
- Principles of Lab Animal Science

ELECTIVE SUBJECTS 2

- Development Biology
- Basic Occupational Safety & Health
- Radiation Biology and Protection
- Principles of Human Nutrition

CAREER PATH

Graduates of this bachelor may find employment as Medical Laboratory Technologist, Scientific Officer and Research Officer in various healthcare setting which includes:

- Hospital Laboratories
- Diagnostic Laboratories
- Research and Development Laboratories
- Crime and Forensic Laboratories
- Academic Institution
- Environmental Sector
- Epidemiological Field
- Toxicological Field
- Pharmaceutical Companies

BACHELOR OF ENVIRONMENTAL HEALTH (HONOURS)

JPT/BPP (R3/0521/6/0017) 06/30, MQA A 8828

YEAR 1 - SEMESTER 1

- Fundamental English
- Professional English 1
- Human Anatomy and Physiology
- Cell Biology
- Introduction to Environmental Health
- Falsafah dan Isu Semasa
- Bahasa Melayu Komunikasi 2

YEAR 1 - SEMESTER 2

- Basic Microbiology
- Human Biochemistry
- Basic Occupational Safety & Health
- Principles of Human Nutrition
- Professional English 2
- Philosophy and Current Issues
- Environmental Health Law

YEAR 2 - SEMESTER 3

- Principles of Psychology
- Basic Human Genetics
- Communicable and Non Communicable Diseases
- Air Quality Assessment and Control
- Foreign Language 1
- Co-curriculum
- Environmental and Occupational Management System

YEAR 2 - SEMESTER 4

- Principles of Immunology
- Environmental Microbiology
- Pest and Vector Control
- Land Use and Housing
- Foreign Language 2
- Isu-isu Kotemporari Muslim di Malaysia
- Culture and Lifestyle in Malaysia (Local Non-Muslim & International Students)
- Industrial Hygiene & Ergonomics

YEAR 3 - SEMESTER 5

- Scientific Communication
- Biostatistics
- Environmental Health Epidemiology
- Food Hygiene and Technology
- Human Behavioral Science
- Water and Sewage Management

YEAR 3 - SEMESTER 6

- Technopreneurship
- Waste Management
- Environmental Toxicology
- Radiation Biology & Protection
- Environmental Health Education and Promotion
- Final Year Project 1

YEAR 4 - SEMESTER 7

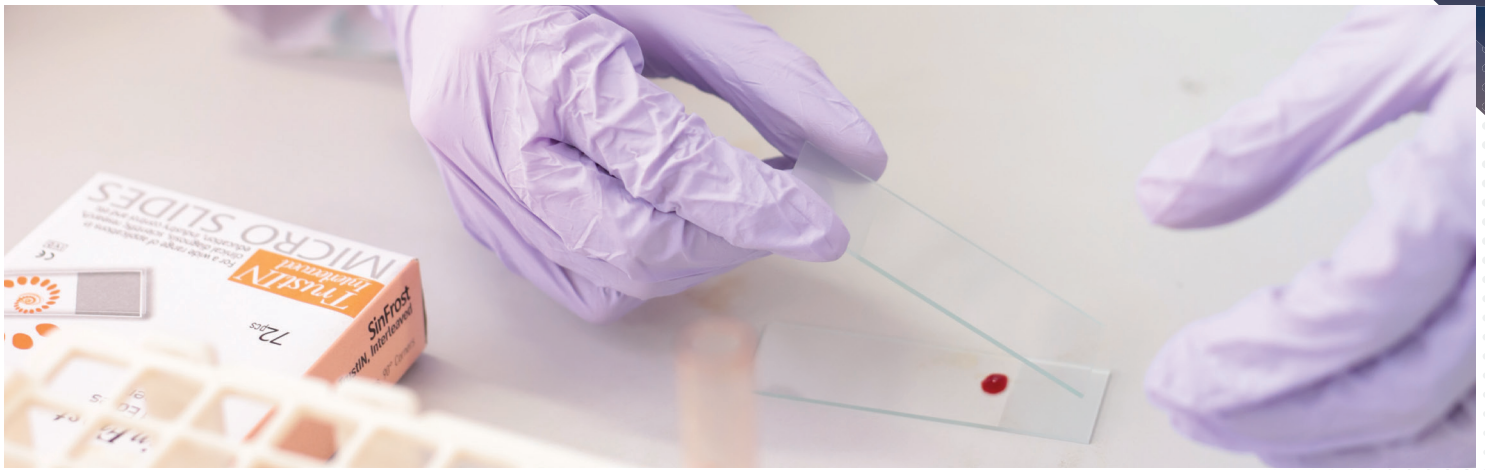
- Environmental Impact Assessment
- Environmental Health Risk Assessment
- Innovation Management
- Final Year Project 2

YEAR 4 - SEMESTER 8

- Industrial Training

CAREER PATH

Graduates are qualified to start their careers in environmental health officer positions with local government authorities and ministries, and the state health departments. The career opportunities are wide and diverse including policy roles, in private industries including manufacturing, tourism, transport, food services, waste management, pest control and construction as well as consulting firms and other entrepreneurial opportunities.



BACHELOR OF OCCUPATIONAL SAFETY AND HEALTH (HONOURS)

JPT/BPP (N/862/6/0077) 03/26, MQA/PA 10074

PROGRAM CONTENTS

YEAR 1 - SEMESTER 1

- Fundamental English
- Professional English 1
- Physics
- Principles of Occupational Safety & Health
- Falsafah & Isu Semasa
- Bahasa Melayu Komunikasi 2
- Human Anatomy & Physiology

YEAR 1 - SEMESTER 2

- Basic Microbiology
- OSH Management System
- Occupational Safety & Health Legislation
- Chemistry
- Professional English 2
- Penghayatan Etika & Peradaban
- Philosophy and Current Issues

YEAR 2 - SEMESTER 3

- Occupational Epidemiology
- Occupational Health
- Principles of Psychology
- Foreign Language 1
- Elective
- OSH Risk Management
- Co-Curriculum

YEAR 2 - SEMESTER 4

- Industrial Hygiene
- Machinery Safety
- Foreign Language 2
- Isu-isu Kotemporari Muslim di Malaysia
- Culture and Lifestyle in Malaysia (Local Non-Muslim & International Students)
- Elective
- Human Factor & Ergonomics

YEAR 3 - SEMESTER 5

- Scientific Communication
- Biostatistics
- Industrial Toxicology
- Fire Safety
- Elective
- Chemical Safety

YEAR 3 - SEMESTER 6

- OSH Promotion
- Rehabilitation Sciences
- Final Year Project 1
- Elective
- Technopreneurship

YEAR 4 - SEMESTER 7

- Emergency Response and Preparedness
- Final Year Project 2
- Ethics and Leadership in Safety and Health
- Innovation Management

YEAR 4 - SEMESTER 8

- Industrial Training

CAREER PATH

Graduate from this program will be able to undertake roles in various sectors such as HSE Executive, Safety and Health Officer (SHO), OSH Coordinator, Industrial Hygienist, OSH Competent Person and HSE Consultant. As Malaysia is increasingly strengthening the legislative requirements for OSH, the future demand for competent and qualified OSH professionals is expected to be high.



DIPLOMA OF MEDICAL LABORATORY TECHNOLOGY

JPT/BPP (R3/0914/4/0025) 06/28, MQA A 8824

PROGRAM CONTENTS

YEAR 1 - SEMESTER 1

- Human Anatomy
- Physics
- Cell Biology
- Chemistry
- Mathematics and Statistics
- Competency English
- Penghayatan Etika & Peradaban/ Falsafah & Isu Semasa
- Bahasa Melayu Komunikasi 1

YEAR 1 - SEMESTER 2

- Basic Microbiology
- Human Physiology
- Human Biochemistry
- Human Genetics
- Instrumentation for Biomedical Sciences
- Communication English 1 Interpersonal Skills

YEAR 2 - SEMESTER 3

- Human Immunology
- Hematology 1
- Pathology
- Parasitology
- Clinical Chemistry 1
- Foreign Language 1
- Amalan Islam di Malaysia/ Religious Practices in Malaysia
- Culture and Lifestyle in Malaysia 1

YEAR 2 - SEMESTER 4

- Clinical Chemistry 2
- Diagnostic Immunology
- Histotechnology
- Diagnostic Microbiology Hematology 2
- Human Pharmacology
- Communication English 2

YEAR 3 - SEMESTER 5

- Transfusion Science and Blood Banking
- Cytopathology
- Introduction to Entrepreneurship
- Foreign Language 2
- Final Year Project
- Co-curriculum

YEAR 3 - SEMESTER 6

- Industrial Training

CAREER PATH

Graduates of this diploma are qualified to work as Medical Laboratory Technologist who performs analyses of biological and related materials in various laboratories:

- Hospital Laboratories
- Diagnostic Laboratories
- Research and Development
- Laboratories
- Crime and Forensic Laboratories
- Academic Institution
- Environmental Sector
- Epidemiological Field
- Toxicological Field
- Pharmaceutical Companies



DIPLOMA IN ENVIRONMENTAL HEALTH

JPT/BPP (R3/0521/4/0029) 06/28, MQA A 8825

PROGRAM CONTENTS

YEAR 1 - SEMESTER 1

- Introduction to Environmental Health
- Chemistry
- Mathematics
- Physics
- Competency English
- Foreign Language 1
- Penghayatan Etika & Peradaban/ Falsafah & Isu Semasa
- Bahasa Komunikasi 1

YEAR 1 - SEMESTER 2

- Human Anatomy & Physiology
- Microbiology for Environmental Health
- Food Technology
- Introduction to Soil and Hydrogeology
- Interpersonal Skills
- Communication English 1
- Foreign Language 2

YEAR 2 - SEMESTER 3

- Communicable and Non Communicable Diseases
- Pest and Vector Management
- Land Use and Building Technology
- Water Supply and Sewage
- Introduction to Entrepreneurship
- Amalan Islam di Malaysia/ Religious Practices in Malaysia
- Communication English 2
- Culture and Lifestyle in Malaysia 1

YEAR 2 - SEMESTER 4

- Epidemiology and Biostatistics
- Human Relation and Behavior
- Introduction to Environmental Toxicology
- Environmental Waste Management
- Food Hygiene
- Introduction to Occupational Safety and Health
- Co-curriculum

YEAR 3 - SEMESTER 5

- Introduction to Legal Procedure
- Organizational Behavior
- Health Promotion and Education
- Environmental Evaluation and Analysis
- Final Year Project

YEAR 3 - SEMESTER 6

- Industrial Training

CAREER PATH

Graduates of this diploma are able to find work as Assistant Environmental Health Officer in Local Authorities and Government Ministries, as well as Environmental Health Practitioners in private industries including manufacturing, tourism, transport, food services, waste management, pest control and construction.

DIPLOMA IN MEDICAL AND HEALTH SCIENCES

JPT/BPP (R/722/4/0008) 01/24, MQA/FA 4941

PROGRAM CONTENTS

YEAR 1 - SEMESTER 1

- Anatomy and Physiology 1
- Bioscience
- Microbiology and Parasitology
- Behavioral Science
- Competency English
- Culture and Lifestyle in Malaysia 1
- Introduction to Entrepreneurship
- Amalan Islam di Malaysia
- Religious Practices in Malaysia (Non-muslim students)
- Penghayatan Etika & Peradaban/ Falsafah & Isu Semasa
- Bahasa Komunikasi 1

YEAR 1 - SEMESTER 2

- Anatomy and Physiology 2
- Medical Science 1
- Surgical Science 1
- Community Health 1
- Clinical Pharmacology 1
- Communication English 1
- Foreign Language 1
- Professional Development
- Professional Practice & Patient Care 1

YEAR 2 - SEMESTER 3

- Medical Science 2
- Surgical Science 2
- Community Health 2
- Clinical Pharmacology 2
- Interpersonal Skills
- Foreign Language 2
- Emergency Medicine & Trauma Care
- Obstetrics & Gynecology

YEAR 2 - SEMESTER 4

- Orthopedic
- Community Preventive Medicine
- Research Methodology
- Communication English 2
- Co-curriculum 1
- Clinical Medical
- Clinical Surgery
- Clinical Paediatric
- Prehospital Care

YEAR 3 - SEMESTER 5

- Clinical Orthopedic
- Clinical Ophthalmology
- Clinical Psychiatric
- Clinical Emergency Medicine
- Clinical Otorhinolaryngology

YEAR 3 - SEMESTER 6

- Clinical Community Health (Primary Health Care)
- Clinical Community Health (Maternal Health)
- Operation Theatre
- Clinical Obstetrics and Gynecology
- Clinical Prehospital Care

CAREER PATH

Government sector provides many job opportunities whether in hospital, health clinics, prison, detention centers (Pusat Serenti), PLKN and old folks home. Private sectors such as Petronas / Shell offshore oilrigs offers better salary scheme as well as estate plantations such as Guthrie, etc. Private specialist hospitals also created job opportunities in various units under their care. Those who have interest in education will find many opportunities to be recruited as tutors in MA Training colleges and in any health related education programs. Graduates will also be able to pursue further studies in Health Studies, Health Education and any health related fields.



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