

5.4 ENVIRONMENTAL AND OCCUPATIONAL HEALTH

Introduction

Environmental and Occupational Health Programme is offered by the School of Health Sciences, as a full time 4 years (8 semesters) undergraduate academic programme. Students will be awarded the Bachelor of Health Sciences (Environmental and Occupational Health) upon completion of the programme.

Environmental and Occupational Health Programme is an integrative academic programme involves multidisciplinary fields. The tools of science and technology are used to solve human health problems related to the environmental and occupational issues. Knowledge in the field of environmental and occupational health will serve as a competitive advantage that enables the graduates to work effectively with medical professionals involved in the treatment and rehabilitation of individuals with environmental and occupational related problems. The designation and development of the programme is aimed to fulfill the specific needs of potential employers, regulators and modern society in general. The students will be trained on international quality management systems, including ISO 9001, ISO 14001, OSHAS 18000, ILO-OSH 2001 and MS 1722: 2003.

Students will also be exposed to knowledge in the field of quantitative chemistry with special attention on skills to handle analytical instruments that measure pollutants in outdoor and indoor samples, independently. Students will gain real life experience through 6 months Smart Partnership Scheme established between the university, industries and government institutions.

List of Core Courses of the Environmental and Occupational Health Programme

No.	Course Code	Title of Core Courses in the Environmental and Occupational Health Programme	Unit
1.	GTK101/3	Introduction to Environmental and Occupational Health	3
2.	GTK104/3	Environmental Health	3
3.	GTU101/3	Structure and Function of Humans I	3
4.	GTU103/3	Fundamentals of Health Informatics	3
5.	GTU104/3	Structure and Function of Humans II	3
6.	GTU105/3	Psychology and Behavioral Science	3
7.	GTU106/3	Biochemistry and Basic Genetics	3
8.	GTB106/3	Laboratory Science	3
9.	GTF101/3	Basic Chemistry	3
10.	GTK201/3	Occupational Safety	3
11.	GTK202/3	Pollution and Health	3
12.	GTK203/3	Occupational Health	3
13.	GTK204/4	Environmental and Occupational Law	4
14.	GTU202/3	Health and Society	3

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No.	Course Code	Title of Core Courses in the Environmental and Occupational Health Programme	Unit
15.	GTB225/3	Epidemiology	3
16.	GTK301/4	Environmental and Occupational Toxicology	4
17.	GTK302/3	Environmental and Occupational Health from Engineering Perspectives	3
18.	GTK303/3	Domestic, Laboratory and Industrial Waste Management	3
19.	GTK305/3	Environmental and Occupational Health Related Diseases	3
20.	GTK307/3	Occupational Rehabilitation	3
21.	GTK310/4	Measurement and Monitoring of Contaminants	4
22.	GTK311/4	Environmental and Occupational Emergency	4
23.	GTU301/3	Ethics and Law for the Health Professionals	3
24.	GTU302/3	Biostatistic	3
25.	GTU304/3	Research Methodology	3
26.	GTK402/8	Research Project	8
27.	GTK404/3	Environmental Management	3
28.	GTK406/12	Environmental and Occupational Health Practicum	12
29.	GTK408/4	Occupational Safety and Health Management	4
Total Unit of Core Courses			106

Programme Learning Outcome (PO)

At the end of the programme, the graduates will be able to:

- PO1: Apply core knowledge and display the ability to use theoretical and practical skills in all situations involving environmental and occupational hazards and safety.
- PO2: Demonstrate technical skills and capable in creating perception in order to identify environmental and occupational health's problems.
- PO3: Apply critical and creative thinking in acquiring environmental and occupational health information and apply scientific knowledge in research towards effective services.
- PO4: Apply communication skills effectively at any working environment in all organizations, industrials and society.
- PO5: Demonstrate social skills and participate as team player in order to catch the organization goal and able to solve environmental and occupational health's problem as a group.
- PO6: Demonstrate good values, attitudes, and professional ethics in environmental and occupational safety, applications and services.
- PO7: Apply lifelong education and ICT skills, and identify resources to enhance services and research in environmental and occupational health.
- PO8: Identify and manipulate entrepreneur resources and skills in environmental and occupational health related-skills and professions to facilitate society group in need.
- PO9: Demonstrate and apply leadership as healthcare professionals in activities related to environmental, occupational, healthcare and research.

Recommended Registration Guidelines for the Core Courses of the Environmental and Occupational Health Programme

Code	Core Courses	Unit	Code	Core Courses	Unit
Year 1 Semester 1			Year 1 Semester II		
GTU101/3	Structure and Function of Humans I	3	GTU103/3	Fundamentals of Health Informatics	3
GTU106/3	Biochemistry and Basic Genetics	3	GTU104/3	Structure and Function of Humans II	3
GTK101/3	Introduction to Environmental and Occupational Health	3	GTU105/3	Psychology and Behavioural Science	3
GTB106/3	Laboratory Science	3	GTK104/3	Environmental Health	3
GTF101/3	Basic Chemistry	3			
		15			12

Code	Core Courses	Unit	Code	Core Courses	Unit
Year 2 Semester 1			Year 2 Semester II		
GTU202/3	Health and Society	3	GTU302/3	Biostatistics	3
GTK201/3	Occupational Safety	3	GTK202/3	Pollution and Health	3
GTK204/4	Environmental and Occupational Law	4	GTK203/3	Occupational Health	3
			GTB225/3	Epidemiology	3
		10			12

Recommended Registration Guidelines for the Core Courses of the Environmental and Occupational Health Programme

Code	Core Courses	Unit	Code	Core Courses	Unit
Year 3 Semester I			Year 3 Semester II		
GTK301/4	Environmental and Occupational Toxicology	4	GTK305/3	Environmental and Occupational Health Related Diseases	3
GTK302/3	Environmental and Occupational Health from Engineering Perspectives	3	GTK307/3	Occupational Rehabilitation	3
GTK303/3	Domestic, Laboratory and Industrial Waste Management	3	GTK310/4	Measurement and Monitoring of Contaminants	4
GTU301/3	Ethics and Law for the Health Professionals	3	GTK311/4	Environmental and Occupational Emergencies	4
			GTU304/3	Research Methodology	3
		13			17

Code	Core Courses	Unit	Code	Core Courses	Unit
Year 4 Semester I			Year 4 Semester II		
GTK402/8	Research Project	8	GTK404/3	Environmental Management	3
GTK406/12	Environmental and Occupational Health Practicum	12	GTK408/4	Occupational Safety and Health Management	4
		20			7