



In Partnership With Diversity Learning Institute-DLI & Twikatane e.V Vermany

Master's Degree Course: General Health Sciences, M.Sc. GHS
 Course Duration: 12 months(1 year) 2 semesters(Total Credits = 60)

(A) Modules Outline

Module Name	Module Code	Teaching Hours	Credits
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Semester 1 Modules

Human Anatomy and Physiology	GHS 601	30 hours	10
- Structure and Function of Cells	-	10 hours	-
- Major Organ Systems	-	10 hours	-
- Homeostasis and Health	-	10 hours	-
Principles of Epidemiology	GHS 603	30 hours	10
- Introduction to Epidemiology	-	10 hours	-
- Study Designs in Epidemiology	-	10 hours	-
- Biostatistics in Health Sciences	-	10 hours	-
Public Health and Health Promotion	GHS 605	30 hours	10
- Concepts of Public Health	-	10 hours	-
- Health Promotion Strategies	-	10 hours	-
- Disease Prevention and Control	-	10 hours	-

Semester 2 Modules

Medical Research Methods	GHS 602	30 hours	10
- Research Ethics and Integrity	-	10 hours	-
- Research Design and Methodology	-	10 hours	-
- Data Collection and Analysis	-	10 hours	-
Health Informatics and Technology	GHS 604	30 hours	10
- Electronic Health Records	-	10 hours	-
- Telemedicine and E-Health	-	10 hours	-
- Data Security and Privacy	-	10 hours	-
Global Health Issues	GHS 606	30 hours	10
- Emerging Infectious Diseases	-	10 hours	-
- Health Disparities and Inequities	-	10 hours	-
- Global Health Interventions	-	10 hours	-

(B) How Artificial Intelligence (AI) Can Be Applied in This Course

1. Disease Prediction and Surveillance:

- Implementing AI algorithms for disease prediction, early detection, and surveillance based on health data analysis.

2. Personalized Medicine:

- Utilizing AI in health informatics to analyze genetic and clinical data for personalized treatment plans and precision medicine.

3. Clinical Decision Support Systems:

- Implementing AI-driven clinical decision support systems to aid healthcare professionals in diagnosing and treating patients.

4. Health Data Analytics:

- Using AI for comprehensive health data analytics to identify patterns, trends, and insights for evidence-based decision-making in public health.

5. Telehealth and Remote Monitoring:

- Integrating AI in telehealth platforms for remote patient monitoring, predictive analysis, and personalized healthcare delivery.

6. Global Health Planning and Intervention:

- Leveraging AI for data-driven global health planning, resource allocation, and intervention strategies to address health disparities and inequities worldwide.

By incorporating AI into the General Health Sciences course, students can explore the transformative potential of advanced technologies in healthcare, public health, and global health initiatives.