

# PROFESSIONAL CERTIFICATE IN CHEMICAL PATHOLOGY LABORATORY DATA ANALYSIS

#1  
AppliedHE™

#5  
QS World University Rankings

#138  
QS World University Rankings

#26  
QS World University Rankings

5  
STARS

#401-500  
THE

#101  
Times Higher Education

HURS

Awarded 5 Stars Rating  
Healthy University Rating System

MALAYSIA  
BOOK OF  
RECORDS

DURATION  
6 MONTHS

CREDIT HOUR  
8 CREDIT HOURS

MODE OF STUDY  
HYBRID

## Course Synopsis

This course prepares students to understand pathophysiology and biochemical changes in relation to Chemical Pathology Laboratory data that are associated with pathological conditions. It enhances skills in interpreting Chemical Pathology Laboratory data, identifying abnormalities in organ function, recognizing the need to perform specialized tests as well as emphasizing laboratory management. The course also focuses on managing errors in laboratory data analysis and reporting as well as correlating biochemical changes with organ function for accurate laboratory data interpretation.

## Course Learning Outcome

- ✓ Explain the pathophysiology and biochemical analytical changes in the development and progression of diseases.
- ✓ Correlate the results of Chemical Pathology Laboratory test outcomes with the pathophysiology of diseases in a professional and ethical manner

## Course Benefits

- ✓ Ascertain the competency of medical laboratory professionals in chemical pathology.
- ✓ Ensure accurate diagnosis towards an appropriate management of patients' conditions.
- ✓ Understand the pathophysiological aspect of disease and interpret chemical pathology laboratory data

## Type of Assessment

- ✓ Quizzes
- ✓ Reports
- ✓ Presentations

## Topic Coverage

- ✓ Advanced in Chemical Pathology Laboratory Data Analysis focusing on the following major aspects:

Pathophysiology and biochemical analyte changes based on clinical data involved in the development and progression of diseases, organ function abnormalities, routine and specialized tests in Chemical Pathology Laboratories, Laboratory management.

- ✓ Case Study in Chemical Pathology Laboratory Data Analysis

## Entry Requirement

A Bachelor's Degree in Biomedical Science / Medical Laboratory Technology / any related field that is recognized

OR

A Diploma in Medical Laboratory Technology / any related field with at least five (5) years of working experience in Chemical Pathology related Laboratory

AND

Non-citizen candidates must achieve a minimum score of 40 (TOEFL-IBT) or 5.0 in the International English Language Testing System (IELTS) or a score of 6.0 in the Higher Education English Test (HEET)

## More Information

### Application Enquiry

MICRO-CREDENTIAL &  
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### Programme Inquiry

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