

Diabetes and the Clinical Laboratory

Online Short Course
www.biomedonline.co.uk



UNIVERSITY of
GREENWICH

LONDON | KENT

Overview

This 12-week online course, starting in April and October, is designed for:

- Biomedical scientists
- Clinical scientists
- Laboratory, hospital and health service managers
- Other healthcare professionals, including nurses, pharmacists and medical technical officers.

Course objectives

On completing this course successfully you will be able to:

- Describe the incidence and likely trends of diabetes mellitus and fully appreciate the laboratory and point-of-care analytical methods used in the diagnosis and monitoring of diabetes mellitus and their limitations
- Demonstrate a critical assessment of the various forms of diabetes mellitus, the genetic and environmental factors associated, disease classifications, different treatment regimens available and complications of diabetes mellitus with respect to laboratory needs to support these with expected clinical monitoring and outcomes
- Show how potential future

developments could improve diabetes management

- Make scientific and technical contributions to the Diabetes Multi-Disciplinary team (MDT) and others, using a basis of best available practice, ensuring the MDT is fully apprised of new monitoring techniques and possibilities
- Be able to perform literature-based research and evaluation to produce scientific reports to professional standards suitable for presentations using a variety of ICT tools
- Perform effectively within a team environment and recognise and utilise other people's contributions in group discussion and provide valued input into group discussions.

Course content

Two workshops

- **Workshop 1:** an introduction to e-learning, your tutors and your course
- **Workshop 2:** course consolidation

Guided online study

- Introduction
- Analytical methodologies in diabetes mellitus
- Diagnostic criteria and incidence of diabetes mellitus type 1
- Diagnostic criteria and incidence of diabetes mellitus type 2
- Diabetes mellitus therapies
- The investigation and monitoring of consequences of diabetes mellitus
- Future developments
- Finals

Why study this course?

- It offers you a high level of student support, with a typical tutor: student ratio of 1:10
- Courses are approved for CPD by the Institute of Biomedical Science, the leading body for those working in the field
- Our courses offer you a flexible, practical way to learn, for CPD or towards a PG Cert, PG Dip or full MSc.

Student Comments

“I really enjoyed this course! It gave me a better understanding of chemistry tests—coming from a Haematology background it has been particularly useful for me. The course also gave a good insight to the patient view, rather than just being lab based. I felt extremely supported throughout this module, highly recommend.”

Kay Louise McHugh

Specialist Biomedical Scientist
Brighton and Sussex University Hospitals

“This module is an excellent addition to the portfolio of modules offered through Biomed Online.

The course is of particular interest in the field of Diabetes Mellitus, not just from an academic perspective, although the level of academic learning is excellent, but from the point of view of a scientist working in the area of Point of Care testing.

The range and variety of both written

assignments and quizzes and presentation offers students multiple ways to prove and demonstrate the knowledge gained throughout the module.

The tutor has a superb knowledge base in the subject. He is very helpful. The discussion both in the chats and online forums provide good communication and therefore shared learning for the students on the module.

Learning is current and also looks to the future of DM monitoring and diagnosis. Highly recommended.”

Jayne Baker

Senior Specialist Biomedical Scientist
Royal Devon and Exeter
NHS Foundation Trust

“This is my third module as part of the MSc, and I have thoroughly enjoyed learning about diabetes and learning from others during chat sessions. It is extremely relevant for routine practice in a clinical biochemistry laboratory. I received feedback on my assignments within a couple of days and found that it is well paced, which helped fit around my current commitments at work.”

Gregg Harley-Potter

Horton General Hospital
Oxford University Hospitals
NHS Foundation Trust



Key facts

Attendance: 12 weeks (online)

Entry requirements:

This course is aimed at employees across the health sector. You may already have a qualification in a science such as biology, biochemistry, chemistry or pharmacy at a range of levels, from HNC or BSc to PhD.

Qualifications:

Each of our online short courses is worth 30 credits at FHEQ Level 7 (Master's level). You can complete four online short courses plus a workplace-based project in up to seven years for an MSc accredited by the Institute of Biomedical Science.

We also offer Postgraduate Certificates for successful completion of two online courses, or a Postgraduate Diploma for four courses. Please see our website at www.biomedonline.co.uk for details of the course options for our PG Certs and Dips in Biomedical Science (Online), Healthcare Management and Healthcare Quality Management.

How to apply:

To make a booking, or to find out more, please contact us:

E-mail:

biomedoffice@gre.ac.uk

Website:

www.biomedonline.co.uk

Fee information

The schedule of fees is available at www.biomedonline.co.uk. A discount is available for members of the Institute of Biomedical Science and students who work at an organisation that is part of the Biomed Online Consortium (please see our website for the Consortium members).

More online courses

- Advanced Human Genetics
- Analysis of Nucleic Acids
- Antibiotics
- Applied Haemostasis and Thrombosis
- Blood Transfusion
- Chromatography-Mass Spectrometry Analysis in Healthcare Settings
- Clinical Data Interpretation
- Diagnosis of Breast Cancer
- Diagnostic Haemostasis and Thrombosis
- Governance and Risk Management
- Haematological Malignancies
- Haemoglobinopathies
- Haemolytic Anaemias
- Immunocytochemistry in Diagnostic Cellular Pathology
- Implementing Advanced Quality Management
- Lung Disease
- Management of Healthcare Associated Infection
- Managing Learning and Development in Healthcare
- Parasitology
- Point of Care Testing
- Quality Systems Management
- Renal Disease
- Robotics and Automation

More courses coming soon...

Biomed Online Learning

E-mail:

biomedoffice@gre.ac.uk

Website:

www.biomedonline.co.uk



LONDON | KENT



This document is available in other formats on request

University of Greenwich, a charity and company limited by guarantee, registered in England (reg. no. 986729). Registered office: Old Royal Naval College, Park Row, Greenwich, London SE10 9LS