



— THE CITY OF LONDON —  
**DENTAL SCHOOL**

MSC DEGREE COURSE

# Restorative Aesthetic Dentistry and Implantology



University of  
Greater Manchester



## About the Course

Although conventional implant protocols are taught the MSc Specialist Practice of Restorative Aesthetic Dentistry and Implantology considers implantology from a restorative perspective. Emphasis is placed on restoring and devising restoratively driven treatment plans incorporating implants. Consideration will be given to immediate loading and placement protocols employing both screw and the cement retained prosthesis.





### Patient Assessment & Risk Management

This module is designed to develop an evidence-based approach to patient selection as well as instil the practical skills required to recognise and provide advanced level treatment modalities and risk assessment in multi-disciplinary procedures. The aim of this module is to highlight potential complications in treatment and for you to be able to develop risk assessment strategies to avoid or minimise these complications. The practice of predominately elective treatments is one of the most challenging and complex fields of medicine as it

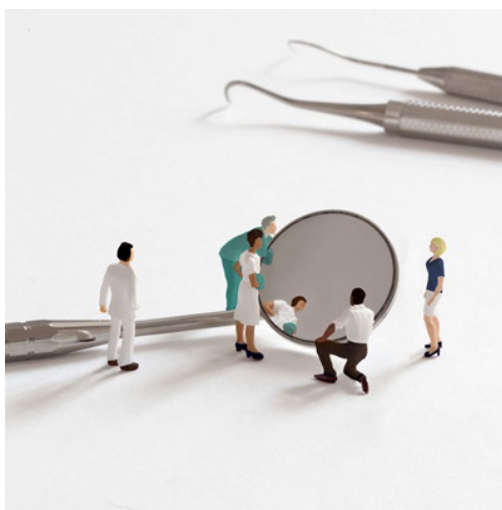
often entails in-depth knowledge of more than one specialty, each having its unique set of complications that need to be identified and effectively managed. These challenges can range from unacceptable aesthetics and poor treatment outcomes to irreversible surgical trauma to vital structures and potentially life-threatening haemorrhage. This module develops an understanding of the requirements and skills essential to the safe clinical practice and application of advanced treatment modalities and the challenge of long term maintenance issues or complications. As it is not possible to prevent all complications, this module also considers essential management strategies and the ethical issues of informed consent and the management of patient expectations. The module develops skills in communication, organisation, and planning, problem solving, treatment planning, risk assessment, recognising ethical responsibility and securing consent.



### Computer Assisted Design & Fabrication of Restorations

This module critically evaluates the latest computer assisted design and manufacturing technologies used in the practice of digital dentistry. It aims to give you experience in the use of commercial CAD/CAM systems and further develop your abilities in the production of implant guides and restorations. A familiarity with CAD software will be established. Dental computer packages

will be used in order to develop a base level of competence and understanding. You will be encouraged to evaluate the significance and effectiveness of dental CAD/CAM systems. It will also introduce image capturing technologies, their indications and application to the digital work flow. The software commonly used in the treatment planning and design of restorative appliances and surgical guides will be covered in detail. You will have the opportunity to use CAD software in the treatment of actual cases and assess its functions and application for various treatment modalities. CAM processes will include various appliance fabrication hardware such as milling and printing machines.



## Reflective Professional Log

This module encourages the student to critically reflect on their professional, clinical and managerial practice in a specific field in order to explore questions which are fundamental to their professional development and eventual dissertation topic. It requires the student to evaluate their own knowledge base and to recognise and clarify the important connections between what they already know and what they intend to learn. It encourages information literacy, using contemporary and seminal sources in order to compile a critical evaluation of specialist practice to allow them to develop strategies which enhance their professional development.



## Understanding Research and Critical Appraisal (URECA)

The aim of this module is to help you to develop research skills in order to identify your dissertation topic, make a detailed proposal and plan your research. It will develop the academic skills necessary for your study at Masters level. This comprehensive module covers clinical statistics, evidence-based practice, critical appraisal, measurement and research design, and explores their specific application in medical research and treatment. You will learn how to formulate realistic research objectives and an appropriate conceptual/analytical framework for your research. You will also learn how to identify, collate and critically review relevant evidence from the literature, and how to make informed decisions about which research philosophies, strategies and methods are applicable to your research.

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## Reflective Clinical Practice of Restorative Dentistry and Implantology

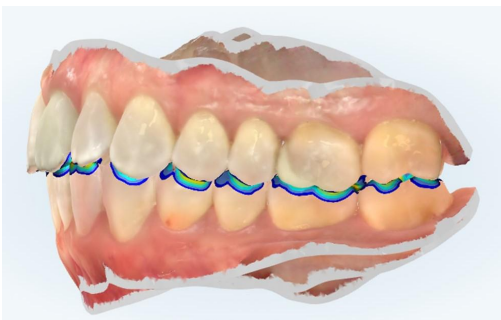
As an experienced dental professional, this optional module requires you to critically evaluate the value of your own knowledge base and to recognise and reflect on the important connections between what you already know and what you intend to learn through evaluations of clinical cases. It encourages information literacy, using contemporary and seminal sources in order to compile a critical evaluation of restorative dentistry and implantology practice to allow you to develop strategies to enhance practice. It will also be possible to arrange for supervised clinical placement of implants on actual patients in Dubai.

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## Three Dimensional Digital Imaging Techniques, Interpretation and Technology



This module provides an introduction to Cone Beam Computer Tomography (CBCT) through a series of practical training sessions on three-dimensional imaging systems and their underlying principles. It will develop the skills of navigation and interpretation of three-dimensional images. Through this module you will learn the fundamental technology of CT scans, their advantages and limitations. You will learn the operating and legal requirements applicable to the safe and effective use of radiographic equipment, plus the health and safety issues related to ionising radiation.



## Occlusal Diagnosis and Analysis

Patient aesthetic awareness coupled with the development of new orthodontic techniques, Implant, and restorative rehabilitation have increased the number of adults seeking advanced dental treatment. This has increased the likelihood of dentists having to diagnose and treat the occlusion as part of a larger treatment plan. This multidisciplinary module considers the anatomy, aetiology and management of occlusion from an orthodontic and restorative

perspective. The aim of this module is to enable the dentist to effectively diagnose and formulate a treatment plan so that the patient can be treated with a comprehensive multidisciplinary approach.



## Dissertation

This taught module provides an opportunity to undertake an extended and substantial piece of research. It allows you to synthesise the academic knowledge acquired from prior postgraduate and experiential learning to produce an evaluative and critical discussion of a specialist dental topic directly related to your programme of study. It aims to help you to develop your abilities in identifying a problem, establishing its significance, formulating a hypothesis/proposition, designing a means of testing the hypothesis and evaluating the results.



## Admission Criteria

Normally, at least two years of demonstrable postgraduate clinical experience in clinical practice. For the MSc in Clinical Aesthetic Non-Surgical Interventions, entry will also be open to doctors, NMC registered nurses (prescribing), and prescribing pharmacists. Current registration with the UK General Dental Council (GDC), General Medical Council (GMC), Nursing & Midwifery Council (NMC), General Pharmaceutical Council (GPhC) or equivalents in another country. Evidence of appropriate professional liability insurance or medico-legal indemnity insurance, as may be required for the designated clinical setting, at an appropriate level.

