

The syllabus is a modern approach to all of the relevant subjects including;

**Introduction:**

This module sets the context for the Restorative Diploma programme and provides valuable information which forms an integral base for the programme. This module will include record keeping, treatment planning, and use of images specifically radiographs and photographs, and the use of the risk benefit equation as a tool to assist in treatment planning.

A minimally interventive approach to restorative dentistry will be the theme of the module which is an underpinning core theme for the programme.

**Occlusion:**

This practically based module provides a detailed insight into the articulatory system, in health [anatomy and physiology] and dysfunction [TMD]. This study will include the clinical and laboratory aspects involved in occlusal analysis. The limitations of available articulators in reproducing the articulatory system will form the basis for a practical exercise where students undertake a clinical examination of a patient and take a facebow along with appropriate occlusal records. The models and records obtained will then be mounted on a semi-adjustable articulator prior to a seminar and laboratory demonstration of occlusal analysis, adjustment and incisal guidance table construction. The principles of splint therapy and their applications will be discussed followed by the production and fitting of a stabilisation splint.

**Periodontics:**

This module will enable the participant to; adequately document a patients' periodontal health and access risk factors for periodontal disease on an individual patient basis, understand the pathogenesis of periodontal disease and its management and the role of the patient in disease control and how to motivate patients. Effectively treatment plan patients presenting with periodontal disease within the context of a comprehensive restorative treatment plan. Use contemporary non-surgical techniques in disease control. Recognise presenting conditions that require the use of antimicrobials and diagnose and effectively treat periodontic /endodontic lesions.

**Endodontics:**

This module is designed to build upon knowledge of the pathology of pulpal and periradicular diseases to underpin an understanding of the rationale behind canal preparation, medication and obturation techniques and the factors that may influence or limit successful endodontic treatment. The complex and varied anatomy of the root canal system will be considered and communication between pulpal and periodontal disease processes will be recognised. The role of micro-organisms in the disease process will be revised as a basis for the understanding of the aims and objectives of canal preparation,

cleansing and obturation with appropriate use of intra-canal medication and temporary seals. The importance of clinical follow-up and assessment of success will be emphasised and the role of retreatment and surgical endodontic methods will conclude the module. Trauma and the subsequent incidence of root resorption will be discussed.

### **Operative Dentistry:**

This practically based module considers the subject of operative dentistry, specifically techniques as they apply to single unit direct and indirect restorations will be considered along with restoration longevity and use and selection of appropriate techniques. Areas covered will include all single unit indirect restorations along with restoration of the endodontically treated tooth with some basic aesthetic techniques considered. The module is very practically based with a series of assessed practical exercises coupled with a demonstration of various techniques and materials.

### **Prosthodontics:**

The module will include principles of treatment planning, restoration design and the effects of fixed and removable prostheses upon the soft and hard dental and oral tissues. The mechanical requirements for successful prostheses will be discussed as will the use of implants in fixed and removable prosthodontics. Factors that influence aesthetics will be considered, describing the relative contribution of shape, surface and shade to the overall aesthetic result. The variety of materials used to construct fixed and removable prostheses will also be described including how the various materials impose requirements upon tooth reduction. Assessment of occlusion, the forces applied to prostheses and their contribution to failure will be considered in detail. Stages involved in the laboratory construction of fixed and removable prostheses will also be demonstrated.

There will also be a choice between 2 Special Interest units:

### **SI Endodontics:**

This module builds upon students experience in the core endodontic module completed in Year 1. This module allows for development of specific skills in relation to endodontics and will include management of the more challenging endodontic case. This will include using the diagnosis of an endodontic case in the decision-making process, in the context of a restorative treatment plan. Specific clinical aspects of non-surgical and surgical re-treatment will be considered: viz. removal of intracanal blockages (e.g. separated instruments, fractured posts), contemporary concepts of apical microsurgery. There will be practical exercises that will allow the student to develop endodontic skills of non-surgical re-treatment under magnification, and also observe a live surgical re-treatment of a failed endodontic case.

### **SI Periodontics:**

This module builds upon the core periodontics module in Year 1 and allows the students to develop their skills in periodontology. The module will include management of the more challenging periodontal case and will allow students to observe more difficult periodontal patients being treated by specialists in the field. There will be an opportunity to engage in more advanced practical exercises undertake respective and regenerative periodontal surgical procedures, and surgical crown lengthening.

*Participants will have the option to take both SI modules at an extra charge subject to demand.*

### **Work Based Training:**

During their time on the Restorative Diploma programme students will be expected to see a wide range of patients with a variety of treatment needs. Cases should reflect the student's stage of the course and special interests within the field of restorative dentistry and may include endodontics, periodontics, fixed and removable prosthodontics and aesthetic dentistry or a combination of these. The emphasis will be on the delivery of appropriate and evidence based treatment in a competent manner, based on careful diagnosis and treatment planning. All clinical work will be mentored and there will be feedback on a sessional basis through the use of a student clinical log. This work based clinical training is a unique aspect of this diploma course.