



**JOHANNESBURG OFFICE**  
**EXAMINATIONS & CREDENTIALS**

**C M S A**

The Colleges of Medicine of South Africa NPC

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**FCD(SA) Pros Part II Blueprint**

**1. LABORATORY PROGRAMME**

**Reproduction of occlusion:**

- (i) Principles of Occlusion
- (ii) Dental Anatomy and Occlusion:

**P K Thomas waxing technique:**

Waxing Technique for Restoring Teeth on P K Thomas using

- (i) Mandibular quadrant opposing untouched  
Maxillary quadrant
- (ii) Maxillary quadrant opposing untouched  
Mandibular quadrant

Objectives to develop proper occlusal morphology in different occlusal schemes for harmonious stable, static and dynamic occlusal relationships.

**Complete Dentures:**

Laboratory work for at least one case of complete dentures providing characterisation for gingiva (stippling) flange (root form) and teeth.

**Removable Partial Dentures:**

Production of a minimum of 10 design drawings for acrylic- and metal-based dentures, and observe all stages in the construction of a cast metal base.

**Maxillo-facial Prosthodontics:**

Creation of wax replicas for an auricular, nasal, orbital and/or facial prosthesis.

**Provisional acrylic restorations:**

Full maxillary arch using the direct and indirect technique.

**Attend a demonstration of a porcelain veneer crown, staining and characterisation of porcelains:** carry out all laboratory procedure of a porcelain veneer crown and a veneered zirconium crown and a bar and clip retained and a ball attachment implant supported overdenture.

Milled prosthodontic frameworks, a CAD/CAM restoration and an implant supported crown (Provisional and Permanent). Designing a surgical stent following a CBCT scan.

**Demonstration** and then carry out the following procedures: Centric relation registration; Lateral jaw relationship determination; Face bow registration; Transfer of face bow to semi-adjustable articulator; Articulation of models; Programming the articulator

**Occlusal equilibration procedures.**

## 2. CLINICAL PROGRAMME

### **Patients with Cranio Mandibular Disorders:**

Treat at least 10 patients suffering from cranio-mandibular disorders.

**Poly-Clinic Cases:** Patients with minor problems or patients needing single crowns, 3-6unit bridges or simple implant, endodontic procedures, All Ceramic Restorations (including inlays, onlays, crowns and laminate veneers), Zirconium crowns, Ceramo-metal restorations, Gold Overlays, Resin bonded bridges, Vital and non-vital bleaching, CAD/CAM Restorations, Implant supported crowns

Poly-clinic cases: Total of 100 units

### **Rehabilitation – Patients with advanced problems:**

A minimum of 200 units related to at least 10 rehabilitation patients must be completed, amongst which: Worn dentition (Tooth surface loss), Periodontal-prosthetic interrelationship (clinical crown lengthening, etc.), Precision attachment partial removable prostheses, Implants fixed and removable prostheses, “Broken down” dentition, Genetic disorders – e.g. ectodermal dysplasia, Special needs patients – hemi-plegics, para-plegics, Parkinson’s disease etc., Multi-disciplinary cases

### **Requirements before treatment can commence**

Complete examination and documentation of Medical and Dental history

- Emergency treatment for the relief of pain.
- Clinical examination
- Radiographs (Full mouth and orthopantomograph)
- CBCT, CT scans and 3-D planning where necessary
- Diagnostic models
- Articulated study models
- Photographs
- Other relevant special investigations

### **Endodontics**

**Attendance at a Diploma Course in Endodontics** - All procedures must be performed under rubber dam. Some cases must be done with magnification using microscope and loupes. Course contents include Photography in Dentistry; Glide path preparation and different techniques; ProTaper Gold: Theory; Hands on PTG; Irrigation: Solutions and Techniques as well as adjunct procedures

Treatment of: Cracked teeth, posts, Open apices

Use of: ProTaper Next and PTN

Vital pulp therapy, Trauma cases (Intrusion, Avulsion, Coronal fractures)

Conservative access cavity preparation

Electronic apex locators

Chemico-mechanical debridement using conventional stainless steel hand files, Gates-Glidden drills, and sodium hypochlorite irrigant, chlorhexidine, etc.

Preparation concepts such as crown-down and anticurvature filing

Placement of calcium hydroxide as an intra-appointment intra-canal medicament

Lateral or cold gutta-percha obturation

Pharmacology and medicine in clinical endodontics

Familiarity with advanced techniques including:

Use of rotary endodontics - NiTi files

Ultrasonic instruments

Warm gutta percha and vertical condensation techniques

The use of resinous obturation materials

## **Removable Prosthodontics**

Occlusal stabilising splints

Partial removable prostheses

- Clasp prostheses
- Sectional prostheses
- Precision attachment prostheses
- Intermediary partial prostheses – in relation to implantology

Intermediary overlay prostheses

Single complete dentures

Immediate prostheses

Complete maxillary and mandibular prostheses

Implant prostheses

- Surgical templates
- Partial prostheses
- Maxillary and Mandibular Complete prostheses
- Maxillo facial prostheses
- Fixed and Removable (Overdentures) Prostheses

## **Maxillo facial prosthodontic prostheses**

Treat patients with severe oral and facial deformities from cancer, trauma, or congenital malformations.

Planning extensive surgical cases with 3-D models

Cleft palate prosthodontics, restoration of acquired oral and facial defects and implant prosthodontics

Intra – oral (obturators, resection prostheses, Neonatal and speech prostheses, Mandibular resection prosthesis, Fluoride tray carriers)

Extra-oral (Auricular prostheses, Nasal Prostheses, Ocular/Orbital prostheses, Mid-facial prosthesis, Radiotherapeutic prostheses – radiation shields, Trismus appliances)

## **Basic subjects**

Anatomy

Physiology

Oral biology

## **Subsidiary subjects**

Periodontics and

Oral medicine

Oral pathology

## **Attendance courses**

Maxillo facial

Surgery

Orthodontics

Research methodology

Radiology

Communication pathology

**Final Exam**

2 x 3 Hour written examination in prosthodontics at end of 4th year

Diagnosis and treatment planning of an unseen case

Oral examination and case presentation

Research defence

**Final Mark**

|                            |                    |
|----------------------------|--------------------|
| Continuous Assessment      | 5%                 |
| And Prod 803 Exam 4th year | 50%                |
| Oral Examination           | 20%                |
| Research Dissertation      | 25%                |
|                            | <b><u>100%</u></b> |

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