

**REGULATIONS FOR THE DEGREE OF  
MASTER OF DENTAL SURGERY IN ORAL AND MAXILLOFACIAL SURGERY  
[MDS(OralMaxFacSur)]**

These regulations apply to candidates admitted in 2017-2018 and thereafter.

*(See also General Regulations and Regulations for Taught Postgraduate Curricula)*

Any publication based on work approved for a higher degree should contain a reference to the effect that the work was submitted to The University of Hong Kong for the award of the degree.

The degree of Master of Dental Surgery in Oral and Maxillofacial Surgery [MDS(OralMaxFacSur)] is a postgraduate degree awarded following the satisfactory completion of a prescribed course of study and research/clinical applications related to dental practice.

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**Admission requirements**

**D135** To be eligible for admission to the curriculum for the degree of Master of Dental Surgery in Oral and Maxillofacial Surgery, a candidate shall

- (a) comply with the General Regulations and the Regulations for Taught Postgraduate Curricula;
  - (b) hold the degree of Bachelor of Dental Surgery from this University, or a degree of other qualification of equivalent standard from another university or comparable institution accepted for this purpose;
  - (c) for a candidate who is seeking admission on the basis of a qualification from a university or comparable institution outside Hong Kong of which the language of teaching and/or examination is not English, shall satisfy the University English language requirement applicable to higher degrees as prescribed under General Regulation G2(b); and
  - (d) satisfy the examiners in a qualifying examination if required.
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**Qualifying examination**

- D136** (a) A qualifying examination may be set to test a candidate's formal academic ability or his ability to complete the prescribed courses of study and practice. It shall consist of one or more written papers, or the equivalent, and may include a project report, practical examination and oral examinations.
- (b) A candidate who is required to satisfy the examiners in a qualifying examination shall not be permitted to register until he has satisfied the examiners in the examination.
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**Award of degree**

**D137** To be eligible for the award of the degree of Master of Dental Surgery in Oral and Maxillofacial Surgery, a candidate shall

- (a) comply with the General Regulations; and the Regulations for Taught Postgraduate Curricula;
  - (b) complete the curriculum, complete and present a written dissertation or project report or research paper in publication format, and satisfy the examiners in accordance with the regulations set out below.
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## **Period of study**

**D138** The curriculum shall normally extend over a period of thirty-six months of full-time study. Candidates shall not be permitted to extend their studies beyond the maximum period of registration of sixty months of full-time study, unless otherwise permitted or required by the Board of the Faculty.

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## **Completion of curriculum**

**D139** To complete the curriculum, a candidate shall

- (a) satisfy the requirements prescribed under TPG 6 of the Regulations for Taught Postgraduate Curricula;
- (b) follow instruction in the courses prescribed and complete satisfactorily all coursework requirements;
- (c) satisfy the examiners in all examinations as may be required; and
- (d) complete and submit a dissertation, project report or research paper in publication format which satisfies the examiners.

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## **Dissertation or project report or research paper**

**D140** The title of the dissertation or project report or research paper in publication format shall be submitted for approval not later than April 30 in the final academic year of study, and the dissertation or project report or research paper in publication format shall be submitted not later than August 1 in the same year; the candidate shall submit a statement that the dissertation or project report or research paper in publication format represents his/her own work undertaken after registration as a candidate for the degree. The examiners may prescribe an oral examination on the subject of the dissertation or project report or research paper in publication format.

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## **Assessment**

**D141** Assessments may be held in each year of study and may take the form of written papers; oral, practical, and clinical examinations; assessments of coursework; or a combination of these methods. Any assessment of the candidate's coursework during the course of study, including written assignments, shall be taken into account in determining the candidate's overall result.

**D142** A candidate who has failed to satisfy the examiners in any part of the assessments may be permitted to present himself/herself again for assessment at a time to be determined by the Board of Examiners; or he/she may be recommended for discontinuation of studies under the provisions of General Regulation G12.

**D143** A candidate who has presented a dissertation or project report or research paper in publication format which has failed to satisfy the examiners may be permitted to revise and re-present the dissertation or project report or research paper in publication format within a period to be determined by the Board of Examiners; or he/she may be recommended for discontinuation of studies under the provision of General Regulation G12.

**D144** In accordance with TPG 5(c), a candidate who has exceeded the maximum period of registration specified in Regulation D138 shall be recommended for discontinuation of studies.

**D145** Failure to take any examination as scheduled normally shall result in automatic course failure.

**D146** A candidate who is unable, through illness, to be present at an examination may apply in writing within 2 weeks of the examination for permission to be examined at some other time to be determined by the Board of Examiners.

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### **Grading system**

**D147** Individual courses shall be graded as “Pass” or “Fail”.

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### **Assessment results**

**D148** Upon successful completion of the curriculum, candidates who have shown exceptional merit may be awarded a mark of distinction, and this mark shall be recorded in the candidates’ degree diploma.

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August 18, 2017

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## **SYLLABUSES FOR THE MASTER OF DENTAL SURGERY IN ORAL AND MAXILLOFACIAL SURGERY**

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### **A. PREAMBLE**

1. The objectives of the MDS(OralMaxFacSur) curriculum are to enable candidates to achieve an advanced level of knowledge and competence in a branch of dental surgery by means of
  - (a) a prescribed course of study (i.e., lectures, seminars, related written and practical and/or clinical work); and
  - (b) additionally, a supervised research project and the submission of a written project report, dissertation or research paper in publication format.

The prescribed course of study will include certain core subjects to be taken by all candidates, but otherwise it will be designed, in accordance with the syllabuses, to take account of the needs of individual candidates. The supervised research projects will also be related to each candidate's course of study in Oral and Maxillofacial Surgery.

2. Candidates must attend for clinical practice in the Prince Philip Dental Hospital (or another approved hospital) for at least four sessions a week in such programme area or areas as are prescribed.
3. The methods and pattern of assessment and examination of each candidate will be determined by the Postgraduate Programme Directors concerned, having regard in each case to the nature and particular emphases of the candidate's programme of work.

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### **B. SYLLABUSES FOR THE DEGREE OF MASTER OF DENTAL SURGERY IN ORAL AND MAXILLOFACIAL SURGERY**

The curriculum shall normally extend over thirty-six months of full-time study and clinical practice related to the practice of Oral and Maxillofacial surgery, or the minimum of 270 credits. Candidates shall not be permitted to extend their studies beyond the maximum period of registration of sixty months of full-time study, unless otherwise permitted or required by the Board of the Faculty.

The curriculum includes didactic (seminars and journal based learning), experiential learning (attachment to professorial clinics, supervised practical and clinical work, joint multi-disciplinary clinics, ward and hospital duties), and qualitative learning (audit meeting, log book, personal reflective journal). Clinical training in a wide variety of oral and maxillofacial surgery is provided. It also includes training in research method and the conduct of a research project, preparation of a dissertation on a specific study or project upon consultation with the supervisor. Students must attend the Prince Philip Dental Hospital and the Queen Mary Hospital as prescribed by the Programme Director.

## Curriculum structure

All the components of the curriculum are compulsory. The curriculum includes the following courses/components:

### A. Faculty Core Courses (18 credits)

These set of courses introduces the scientific method and aims to help the students develop advanced scientific skills, including competences required to critically evaluate research outcomes as well as design and execute biomedical research. Furthermore, these courses will help the student to develop a thorough understanding of biomaterials and material science as applied in rehabilitation disciplines with focus in implant dentistry. The use of the current data search strategies and information technologies will be taught and fully utilized.

- DENT7505 Biomaterials I (3 credits)
- DENT7506 Biomaterials II (3 credits)
- DENT6023 Oral Epidemiology and clinical Research Methodology (3 credits)
- DENT6024 Introduction to statistical analysis in Dental Research (3 credits)
- DENT6025 Multivariable statistical analysis in dental research and use of statistical software (3 credits)
- DENT7030 Dissertation Writing for Master of Dental Surgery and Master of Science – An Induction Course (non-credit bearing)
- DENT7032 Diagnostic & Advanced Dental & Maxillofacial Imaging (3 credits)

### B. Discipline Specific Courses (216 credits)

These set of courses cover a wide variety of topics in the scope of Oral and Maxillofacial Surgery. Each course consists of didactic and clinical components. Students will be trained to provide perioperative care to surgical patients and attend to emergency calls in the hospital. They will be trained to perform specific surgical procedures according to their levels under supervision.

#### Year 1

- DENT7159 Implant Dentistry for Surgical Disciplines I (9 credits)
- DENT7204 Principles of Oral & Maxillofacial Surgery I (21 credits)
- DENT7201 Clinical Skill I (33 credits)

#### Year 2

- DENT7160 Implant Dentistry for Surgical Disciplines II (9 credits)
- DENT7205 Principles of Oral & Maxillofacial Surgery II (24 credits)
- DENT7202 Clinical Skill II (48 credits)

#### Year 3

- DENT7206 Principles of Oral & Maxillofacial Surgery III (24 credits)
- DENT7203 Clinical Skill III (48 credits)

### C. Research Components (30 credits)

DENT7207 Research Project

### DENT7200 Capstone Experience: Clinical Portfolio (6 credits)

*Case presentation and oral examination*

## **Description of courses**

### **DENT7505 Biomaterials I (3 credits)**

This course aims to introduce the post-graduate students to the various types of dental materials and biomaterials. On completion of this course, a student should be able to critically appraise knowledge and reports from various metallic, polymeric and ceramic materials used in dentistry. The student should also be able to choose an appropriate method for assess and evaluate biomechanical, chemical and biological properties of dental materials.

*Assessment: One 2-hour written paper; 100% examination*

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### **DENT7506 Biomaterials II (3 credits)**

The course Biomaterials II aims to introduce and guide the students to silicon chemistry and its vast amount of applications in dental materials and biomaterials. Moreover, the course explains various biomechanical features in dentistry. Dental ceramics and some novel synthetic materials for clinical use are described in details and introduced to the student to critically appraise them. The use of diverse dental cements with their indications will be explained for the student for critical selection in the clinic. On completion of this course, a student should be able to address biomechanics, adhesion and durability aspects in contemporary dentistry.

Assessment: One 2-hour written paper; 100% examination

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### **DENT6023 Oral Epidemiology and clinical Research Methodology (3 credits)**

This course aims to introduce the students to the various types of epidemiological studies and how to conduct clinical trials. On completion of this course, a student should be able to critically appraise reports from oral epidemiological studies and the level of evidence generated. The student should also be able to choose an appropriate design for a clinical study on a specific topic of interest.

Assessment: One 2-hour written paper; 100% examination

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### **DENT6024 Introduction to statistical analysis in Dental Research (3 credits)**

This course aims to introduce the students to the basic statistical methods used in dental research; the interpretation of results of statistical analysis and the statistical content of published research papers. On completion of this course, a student should be able to address statistical issues when formulating a research project, and to appraise the basic statistical content of a published dental research paper.

Assessment: One 2-hour written paper; 100% examination

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### **DENT6025 Multivariable statistical analysis in dental research and use of statistical software (3 credits)**

This course aims to introduce the students to the multivariable statistical methods used in dental research and to provide basic training to the students in using the software SPSS for Windows to analyze dental research data. On completion of this course, a student should be able to appraise the statistical contents of a published dental research paper, and be able to carry out basic analysis of the data collected in a dental research using the software SPSS for Windows.

Assessment: One 2-hour written paper; 100% examination

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**DENT7030 Dissertation Writing for Master of Dental Surgery and Master of Science – An Induction Course (non-credit bearing)**

This Induction Course of 7.5 hours aims to raise course participants' awareness of essential aspects of academic writing which contribute to overall communicative success in dissertations. Its ultimate aim is to provide a useful induction experience so that you will be able to approach your writing with more confidence and skill at key stages of your research. Specific objectives are listed as themes in the course schedule.

Assessment: No formal assessment

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**DENT7032 Diagnostic & Advanced Dental & Maxillofacial Imaging (3 credits)**

- This course will introduce students to the art and science of diagnostic imaging in dental medicine, and will also cover advanced imaging modalities in dento-maxillofacial radiology (DMFR). The course will focus on three-dimensional (3D) imaging using cone beam computed tomography (CBCT), and its use and limitations for various disciplines in dental medicine including periodontology, orthodontics, paedodontics, prosthodontics, and oral and maxillofacial surgery.

Assessment: Coursework (100%)

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**DENT7159 Implant Dentistry for Surgical Disciplines I (9 credits)**

The course will provide a clinically relevant overview of implant dentistry and all related basic, biological and clinical sciences. The course define the role of implant dentistry as part of modern comprehensive care and will elaborate all stages of implant treatment, from patient assessment, treatment planning, implant surgical and restorative procedures, maintenance and management of complications

Assessment: One 2-hour written paper; 20% case based reflective assessment, 20% presentation and 60% examination

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**DENT7160 Implant Dentistry for Surgical Disciplines II (9 credits)**

The course will provide a clinically relevant overview of implant dentistry and all related basic, biological and clinical sciences. The course define the role of implant dentistry as part of modern comprehensive care and will elaborate all stages of implant treatment, from patient assessment, treatment planning, implant surgical and restorative procedures, maintenance and management of complications.

Assessment: One 2-hour written paper; 20% case based reflective assessment, 20% presentation and 60% examination

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### **DENT7204 Principles of Oral & Maxillofacial Surgery I (21 credits)**

This course comprises didactic seminars, presentations and meetings that cover the theoretical knowledge and principles of Oral & maxillofacial Surgery. It includes the following topics:

- surgical anatomy of the head and neck
- patient assessment and diagnosis
- principles of dentoalveolar surgery; microbiology of dentoalveolar infection
- temporomandibular joint disorder
- surgical management of medically compromised patients
- pathology of soft and hard tissues
- assessment and diagnosis of dentofacial deformity
- principles of wound healing
- intravenous sedation and pain management

Assessment: One 3-hour written paper; 100% examination

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### **DENT7205 Principles of Oral & Maxillofacial Surgery II (24 credits)**

Built on the knowledge and principles learnt from the first year, the second year focuses on the following areas:

- cleft lip and palate
- management of dentofacial deformity
- principles of assessment and management of maxillofacial trauma
- pathology and management of oral mucosal diseases
- management of temporomandibular joint dislocations and ankyloses
- management of orofacial pain
- principles of tumour resection and reconstructive surgery

Assessment: One 3-hour written paper; 100% examination

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### **DENT7206 Principles of Oral & Maxillofacial Surgery III (24 credits)**

In the third year, the course focuses on the consolidation of the knowledge learnt during the previous years and the following topics:

- Salivary gland disease
- Obstructive sleep apnea
- Osteonecrosis
- Dentofacial deformity in cleft and syndromic cases
- Principles of distraction osteogenesis
- Management of malignant disease
- Current concept in dental implant

Assessment: One 3-hour written paper; 100% examination

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### **DENT7201 Clinical Skill I (33 credits)**

The emphasis of this course is on the application of the principles of Oral & Maxillofacial Surgery. Students will have intensive hands on training in both in-patient and outpatient environment. Apart from the performance of practical procedures, it focuses on clinical decision making, ethical/legal and communication issues. Students will need to give case presentations in multidisciplinary. Personal feedback will be provided during the course.

Assessment: 60% Practical examination, 20% coursework, 20% continuous assessment

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### **DENT7202 Clinical Skill II (48 credits)**

The emphasis of this course is on the application of the principles of Oral & Maxillofacial Surgery. Students will have intensive hands on training in both in-patient and outpatient environment. Apart from the performance of practical procedures, it focuses on clinical decision making, ethical/legal and communication issues. Students will need to give case presentations in multidisciplinary clinics. Personal feedback will be provided during the course.

Assessment: 60% Practical examination, 20% coursework, 20% continuous assessment

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### **DENT7203 Clinical Skill III (48 credits)**

The emphasis of this course is on the application of the principles of Oral & Maxillofacial Surgery. Students will have intensive hands on training in both in-patient and outpatient environment. Apart from the performance of practical procedures, it focuses on clinical decision making, ethical/legal and communication issues. Students will need to give case presentations in multidisciplinary clinics. Personal feedback will be provided during the course.

Assessment: 60 % Practical examination, 20% coursework, 20% continuous assessment

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### **DENT7207 Research Project (30 credits)**

The student will need to design, execute and disseminate an original research project under the guidance of his supervisor. It usually involves an extensive systematic literature review within the given topic, design and execution of a study and dissemination of the study outcomes in the form of a dissertation or a peer reviewed publication to be submitted in the third year.

Assessment: 100% Dissertation

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### **DENT7200 Capstone Experience: Clinical Portfolio (6 credits)**

Each student needs to keep a log of all the cases encountered. The logbook will be reviewed by the programme director at least twice a year. Each student also needs to present four fully-documented cases which demonstrate the management of a variety of cases within the scope of oral and maxillofacial surgery during the three-year clinical study.

Assessment: 50% logbook and 50% case presentation

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September 27, 2019