(Subject to official approval)

D.55/423

REGULATIONS FOR THE DEGREE OF
MASTER OF DENTAL SURGERY IN PERIODONTOLOGY
[MDS(Perio)]

These regulations apply to candidates admitted in 2023-2024 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 Periodontology [MDS(Perio)] is a postgraduate degree awarded following the satisfactory completion of a prescribed programme of study and research/clinical applications related to dental practice.

Admission requirements

D204 To be eligible for admission to the curriculum for the degree of Master of Dental Surgery in Periodontology, 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.

Qualifying examination

D205 (a) A qualifying examination may be set to test a candidate's formal academic ability or his/her ability to complete the prescribed programme 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.

Award of degree

D206 To be eligible for the award of the degree of Master of Dental Surgery in Periodontology, a candidate shall

(a) comply with the General Regulations and the Regulations for Taught Postgraduate Curricula; and
(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.

Period of study

D207 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.

Completion of curriculum

D208 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.

Dissertation or project report or research paper

D209 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.

Assessments

D210 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.

D211 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.

D212 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.

D213 In accordance with TPG 5(c), a candidate who has exceeded the maximum period of registration specified in Regulations D207 shall be recommended for discontinuation of studies.

D214 Failure to take any examination as scheduled normally shall result in automatic course failure.

D215 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.

Grading system

D216 Individual courses shall be graded as “Pass” or “Fail”.

Assessment results

D217 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.

December 5, 2022

SYLLABUSES FOR THE
MASTER OF DENTAL SURGERY IN PERIODONTOLOGY

A. PREAMBLE

1. The objectives of the MDS(Perio) curriculum are to enable candidates to achieve an advanced level of knowledge and competence in a specialty of dental surgery by means of

   (a) a prescribed course of study (i.e., lectures, seminars, presentations,workshops and 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 programme of study in Periodontology.

2. Candidates must attend for clinical practice 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.

4. On successful completion of the specialism, the student will:
   (a) have a good understanding and knowledge in Periodontology;
   (b) be able to manage various kinds of advanced cases requiring periodontal care using a multidisciplinary approach;
   (c) be able to communicate effectively with patients, their families, relatives and care-givers, and with other health professionals involved in their care.
   (d) be able to critically review dental and the specialism literature;
   (e) be committed to continuing professional development and life-long learning.

B. SYLLABUSES FOR THE DEGREE OF MASTER OF DENTAL SURGERY IN PERIODONTOLOGY

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. The prescribed programme of study has a minimum of 270 credit units.

A programme of advanced study research of the histo-pathogenesis of periodontal diseases, their aetiology, prevention and treatment, including the role of advanced forms of periodontal therapy in comprehensive oral health care, the role of dental implants in replacing missing teeth, implant related pathologies and

supportive care for teeth and dental implants in the periodontally susceptible patients are also covered. The programme includes lectures, seminars, tutorials, case conferences, clinical and laboratory work together with project assignments, training in research method and the conduct of a research project along with the preparation of a dissertation, project report or research paper in publication format.

Curriculum structure

The curriculum includes the following courses/components:

A. Faculty Core Courses (18 credits)

Year 1

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

B. Discipline Specific Courses (66 credits)

Year 1, 2 and 3

- DENT7354 Case presentations plus clinical topics (9 credits)
- DENT7355, DENT7356 and DENT7357 Classic literature I, II and III (6 credits each)
- DENT7350, DENT7351 and DENT7352 Basic Perio science I, II and III (6 credits each)
- DENT7359, DENT7360 and DENT7361 Current literature I, II and III (3 credits each)
- DENT7362, DENT7363 and DENT7364 Joint sessions I, II and III (3 credits for Year 1 & 2; 6 credits for Year 3)

C. Clinical components (126 credits)

- DENT7358 Clinic (incl. pre-clinic)

D. Research components (54 credits)

- DENT7365 Project report and oral examination

DENT7353 Capstone Experience: Clinical Portfolio (6 credits)
Case Presentations and Oral Clinical 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

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

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

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

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

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

This Induction Course 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

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: 60% two-hour written examination and 40% coursework

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DENT7354 Case Presentations plus clinical topics (9 credits)

All students on a rotational basis present cases under their care. This leads to discussion of clinical topics arising.

Assessment: 100% in-class assessment

DENT7355 Classic literature I (6 credits)

All students in rotation present a selection of "classic" papers from the literature to do with Periodontology. These classic literature contributions are then collectively discussed.

Assessment: 100% in-class assessment

DENT7356 Classic literature II (6 credits)

All students in rotation present a selection of "classic" papers from the literature to do with Periodontology. These classic literature contributions are then collectively discussed.

Assessment: 100% in-class assessment

DENT7357 Classic literature III (6 credits)

All students in rotation present a selection of "classic" papers from the literature to do with Periodontology. These classic literature contributions are then collectively discussed.

Assessment: One 2-hour written paper; 50% in-class assessment and 50% examination

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DENT7350 Basic Perio science I (6 credits)

All students in rotation present on a basic science topic. The Presentation and the Topic are then opened for collective discussion.

Assessment: 100% in-class assessment

DENT7351 Basic Perio science II (6 credits)

All students in rotation present on a basic science topic. The Presentation and the Topic are then opened for collective discussion.

Assessment: 100% in-class assessment

DENT7352 Basic Perio science III (6 credits)

All students in rotation present on a basic science topic. The Presentation and the Topic are then opened for collective discussion.

Assessment: One 2-hour written paper; 50% in-class assessment and 50% examination

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DENT7359 Current literature I (3 credits)

All students in rotation present articles self-selected from recent journals. These articles and their impact are then discussed collectively.

Assessment: 100% in-class assessment

DENT7360 Current literature II (3 credits)

All students in rotation present articles self-selected from recent journals. These articles and their impact are then discussed collectively.

Assessment: 100% in-class assessment

DENT7361 Current literature III (3 credits)

All students in rotation present articles self-selected from recent journals. These articles and their impact are then discussed collectively.

Assessment: One 2-hour written paper; 50% in-class assessment and 50% examination

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DENT7362 Joint sessions I (3 credits)

All students on a rotational basis present a wide range of cases under their care who require multidisciplinary teamwork on patient assessment and diagnosis, treatment planning and delivery of therapeutic procedures. This leads to active discussion of clinical topics arising. In addition, all students present a selection of representative or featured papers from the literature to do with other periodontally related disciplines such as implant dentistry, orthodontics and prosthodontics. These literature contributions are then collectively discussed.

Assessment: 100% in-class assessment

DENT7363 Joint sessions II (3 credits)

All students on a rotational basis present a wide range of cases under their care who require multidisciplinary teamwork on patient assessment and diagnosis, treatment planning and delivery of therapeutic procedures. This leads to active discussion of clinical topics arising. In addition, all students present a selection of representative or featured papers from the literature to do with other periodontally related disciplines such as implant dentistry, orthodontics and prosthodontics. These literature contributions are then collectively discussed.

Assessment: 100% in-class assessment

DENT7364 Joint sessions III (6 credits)

All students on a rotational basis present a wide range of cases under their care who require multidisciplinary teamwork on patient assessment and diagnosis, treatment planning and delivery of therapeutic procedures. This leads to active discussion of clinical topics arising. In addition, all students present a selection of representative or featured papers from the literature to do with other periodontally related disciplines such as implant dentistry, orthodontics and prosthodontics. These literature contributions are then collectively discussed.

Assessment: 100% in-class assessment

DENT7358 Clinic (incl. pre-clinic) (126 credits)

Clinical exposure to and care of a wide range of patients with a variety of periodontal conditions for whom a variety of periodontal therapeutic procedures are required including the replacement of missing teeth using dental implants.

Assessment: 100% continuous assessment

DENT7365 Project report and oral examination (54 credits)

Selection of research question in conjunction with project Supervisor. Refining research methodology for commencement of research project. Research project report will be presented in Year 3.

Assessment: 50% project report presentation and 50% oral clinical examination

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DENT7353 Capstone Experience: Clinical Portfolio (6 credits)

Presentation of ten fully-documented cases for which a range of periodontal treatment items have been delivered throughout the three-years of clinical study.

Assessment: 50% case presentation and 50% oral clinical examination

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April 20, 2023