



PERIODONTOLOGY

**Residency Training Program
Leading to the degree of**

Master of Science (MSc)

**SHAHEED ZULFIQAR ALI BHUTTO MEDICAL UNIVERSITY
ISLAMABAD**



CURRICULUM

Master of Science (clinical)

(MSc)

Periodontology



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CURRICULUM DEVELOPMENT COMMITTEE

This Curriculum is developed by the following committee

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ROAD MAP OF MSc PERIODONTOLOGY
(A Brief Summary)

GENERAL INFORMATION AND PROGRAM GOALS:

University offer a 02 years MSc program in the field of Periodontology. This program intends to attract candidates that have an interest in Oral and dental diseases, pathologies, defects and related research methodologies. The curriculum focuses on formal teaching & training as well as practical fieldwork.

This MSc program aims to train and equip the post-graduate students with all the necessary knowledge & skills, at par with international standards, required to be a leader in the field of Periodontology. The candidates, upon graduation, will be expected to demonstrate a high level of expertise in the field of Periodontology with a more specific focus on community-oriented diseases.

COURSE DESCRIPTION:

A total of one sixty-four (64) credit hours of instruction and supervised activities are distributed over two years academic period. This comprises approximately 960 contact hours of instruction and approximately 2880 scheduled hours including formal didactic, clinical, research and laboratory experience.

Year 01		
ID	Title	Credit Hours
Perio-1	Introduction to Research	3
Perio-2	Anatomy, Histology, Biochemistry and Physiology of periodontium, soft tissues and peri-implant tissue	3
Perio-3	Oral Microbiology, Plaque and calculus	1
Perio-4	Host immune Defense Mechanism	2
Perio-5	Periodontal Wound healing and Regeneration and Repair of soft and hard tissue:	3



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Perio-6	Diagnosis and Classification	1
Perio-7	Pathogenesis and diagnosis of gingival diseases (Part I)	3
Perio-8	Pathogenesis and diagnosis of periodontal diseases (Part I)	3
Perio-9	Chemotherapeutics (part I)	2
Perio-10	Systemic influence on periodontium Oral Medicine Diagnosis and management (part I)	1
Perio-11	Dental Implants (part I)	3
Perio-12	The influence of trauma, parafunctional habits, orthodontic forces etc. on the periodonium	1
Perio-13	Surgical periodontal treatment (Part I)	5
Total		31

Year 02		
ID	Title	Credit Hours
Perio-14	Oral Microbiology:	1
Perio-15	Oral Medicine Diagnosis and management (PartII)	2
Perio-16	Pathogenesis, diagnosis and management of gingival diseases (part II)	2
Perio-17	Pathogenesis, diagnosis and management of periodontal diseases (part II)	3
Perio-18	Management of multi-rooted teeth	2
Perio-19	Risk assessment and prognosis of periodontal disease	3
Perio-20	Chemotherapeutics (part II)Host modulation therapy	1
Perio-21	Periodontal Medicine and focal infection theory	2
Perio-22	Pigmentation of gingiva and its management	1
Perio-23	Imaging and investigations	2
Perio-24	Dental Implants (part II)	3



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Perio-25	Surgical periodontal treatment (Part II)	5
Perio-26	Periodontal and allied	3
Perio-26	Supportive Periodontal Therapy	3
Total		33
Grand Total (Year 01 + Year 02)		64
EXIT FINAL EXAMINATION BY UNIVERSITY		

Requirements of MSc Degree for Graduate students Enrolled in the Program

- Fulfillment of University requirements for postgraduate study.
- Four (2) years of consecutive full time advanced study and clinical training.
- Complete and approved master's thesis based on original research during the course of study in an area related to specialty, suitable for publication in a reputable dental journal.
- Must complete all didactic & clinical work in the required curriculum and satisfactorily pass all the University examinations.
- A minimum of 60% must be earned in all work/examinations attempted in the master's program. A grade below this will require re-examination.

A complete road map for postgraduate MSc/MD/MSC can be seen on University website at <http://www.szabmu.edu.pk/content/downloads/road-map-for-postgraduate-residents.pdf>



INTRODUCTION



INTRODUCTION

The residency program in Periodontology is a two-year course covering all aspects of Periodontology and leading to the degree of Master of Science (MSc) in Periodontology.

This curriculum has been developed on the basis of SPICES model which is indicative of the competencies required at the varying levels of training within the specialty together with the knowledge, skills and attitudes achieved by the trainee in acquiring those competencies. The training has been based on the current thinking and the requirements for

- Greater protection of the public interest by providing clear information as to the level of training achieved.
- Improved access to specialty training than general practitioners.
- Greater flexibility of training through the availability of multiple instructors.
- Producing a competent workforce with the appropriate skills and knowledge necessary to meet the varying levels of treatment complexity, as well as considering the relative need and demand of potential patients.
- Acquire the experience to carry out research projects, critically evaluate scientific publications and communicate clinical and research papers in journals and conferences.



RATIONALE



RATIONALE:

Need of program

This training program is structured keeping in view the need of the society. Following needs are identified through formal and informal discussion with the stakeholders.

- Deficiency of the quality health care providers to public especially in remote areas in the field of periodontology.
- Dearth deficiency of competent faculty in the field.
- Deficiency of state of the art periodontology training center.

Purpose of training

The purpose of this curriculum is to guide the training of an individual to the core level of competence required for specialist and consultant. This training will produce consultant who are specialists in their field.

Context of Training

To provide an organized educational program with guidance and supervision, a structured training program will be followed so that each trainee is exposed to different aspects of the subject and acquires special knowledge and skill as expected in this program. The training will provide a basis for the candidate to develop into a lifelong learner who is capable of self-reflection and self-directed learning. It will provide a basis for further ongoing development in the field.

Duration of training

The program leading to MSc in Periodontology will be of 02 years full time.



AIMS & OBJECTIVES



AIMS & OBJECTIVES

Aims of Training

The candidate should acquire and become proficient in the skills required for Periodontology practice with an emphasis on multidisciplinary treatment planning, disease prevention, diagnosis and provision of advanced periodontal surgical techniques for those clinical cases meriting specialist care. The candidate should demonstrate attitudes necessary for the achievement of high standards of clinical practice both in relation to the oral health needs of the population and to his/her own personal development.

Learning Objectives

On completion of training, the trainee will be able to achieve following aptitudes.

Knowledge

- Demonstrate knowledge of clinical aspects of basic sciences as applied to periodontology.
- Demonstrate knowledge of the etiology, pathobiology and clinical presentations of diseases of oral and perioral tissues.
- Demonstrate knowledge of the impact of systemic diseases on oral tissues and of oral diseases on systemic health.
- Acquire knowledge and comprehend the principles of theory and practice of all the domains of periodontology.

Skill

- Take history and conduct clinical examination and investigations that allow collection of information needed to evaluate the oral and related medical conditions for all patients.
- Determine the differential, provisional and definitive diagnosis by interpreting and correlating findings from the history, clinical & radiographic examination together with other diagnostic tests.

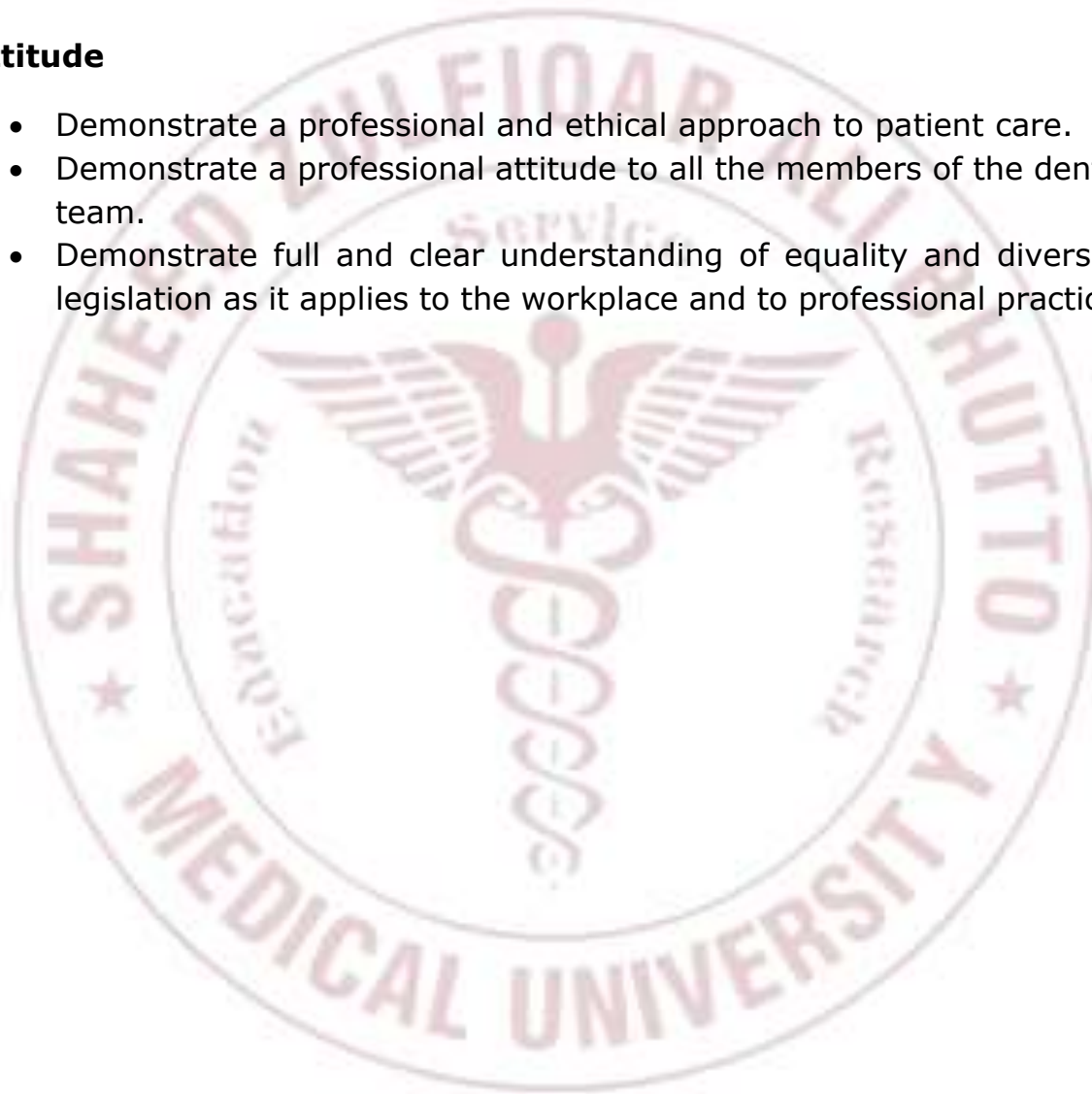


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- Devise treatment plans specific to the needs and expectations of individual patients.
- Execute conventional and contemporary techniques of all the domains of periodontology.
- Demonstrate competency in teaching methods, use of information technology, appraisal and assessment techniques and development of appropriate learning methods for lifelong learning.
- Show evidence of ability to undertake research.

Attitude

- Demonstrate a professional and ethical approach to patient care.
- Demonstrate a professional attitude to all the members of the dental team.
- Demonstrate full and clear understanding of equality and diversity legislation as it applies to the workplace and to professional practice.





ENTRY CRITERIA



ENTRY CRITERIA:

Eligibility to apply for MSc Periodontology

- Candidate must possess BDS or equivalent degree and one year house job from PMDC recognized Institutions.
- Permanent valid registration with PM&DC.
- Declared successful in admission entry examination specified by Shaheed Zulfiqar Ali Bhutto Medical University
- In case of foreign candidate, valid registration with Medical Council of their country of origin must be produced.

Required Documents

Attested photo copies of the following documents must be attached with application form:

- Computerized National Identity Card (CNIC)
- Domicile certificate
- Matric/O Level, FSc/A Level, Certificates or equivalent
- BDS degree with detail marks certificates of all professional
- BDS Attempts certificates of all professional
- NEB pass certificate (for foreign graduates)
- House Job certificates
- PMDC valid permanent registration certificate
- Passing certificate of admission entry examination
- Experience Certificates (if any)
- Migration Certificate (To be produced at the time of admission)

Admission Procedure

- Details of admission procedure is available on university website at <http://www.szabmu.edu.pk/admission/postgraduate-admission>



CONTENT OF LEARNING:



CONTENT OF LEARNING:

The program outline addresses both the knowledge needed in Periodontology and allied medical specialties in its scope. A minimum of two years of formal training through a graded system of education as specified will equip the trainee with knowledge, skill and attitude at its completion to be able to practice basic as well as advance Periodontology competently.

The topics are considered as under:-

ID	Course	Topics
Perio-1	Introduction to Research	1.1 Basic Epidemiology terms 1.2 Epidemiological Study Designs 1.3 Basic Biostatistics 1.4 Write a research proposal 1.5 Critical Appraisal
Perio-2	Anatomy, Histology, Biochemistry and Physiology of periodontium, soft tissues and peri-implant tissue	2.1 Periodontal and peri-implant mucosa and connective tissue 2.2 Cementum and periodontal attachment apparatus 2.3 Alveolar bone and biology of mineralization 2.4 Blood supply and lymphatic system of periodontium 2.5 Periodontal and peri-implant innervation and proprioception 2.6 Gingival crevicular fluid characteristics and functions
Perio-3	Oral Microbiology, Plaque and calculus	3.1 Nature, composition, physiology of plaque biofilm and its role in inflammatory periodontal disease 3.2 Periodontal Microbiology, Periodontal pathogens 3.3 Microbial Virulence: general concepts, cellular microbiology and microbial interaction, periodontal context and microbial interaction 3.4 Calculus formation, composition, structure, mineralization and clinical implications. 3.5 Microbiological methods classical and molecular approaches and relevance for periodontal methodology 3.6 Techniques to identify microorganisms, their application and utility in periodontal practice



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Perio-4	Host immune Defense Mechanism	<ul style="list-style-type: none"> 4.1 Innate elements of defense 4.2 Innate inflammatory mediators 4.3 Collagen and matrix metalloproteinases 4.4 Extra cellular Matrix
Perio-5	Periodontal Wound healing and Regeneration and Repair of soft and hard tissue	<ul style="list-style-type: none"> 5.1 Basic principle, physiology and control of wound healing with application to human periodontium 5.2 Cellular and molecular changes and interaction in normal wound healing of periodontal and peri-implant hard tissue. 5.3 Acquired systemic factors affecting normal periodontal wound healing—possible mechanisms and basic theory supporting appropriate intervention. 5.4 GTR and agents used to enhance periodontal healing and regeneration—biological basis
Perio-6	Diagnosis and Classification	<ul style="list-style-type: none"> 6.1 Classification and epidemiology of periodontal diseases 6.2 Examination, Diagnosis, Treatment plan of periodontal patients
Perio-7	Pathogenesis and diagnosis of gingival diseases	<ul style="list-style-type: none"> 7.1 Gingivitis 7.2 Gingival abscess 7.3 Acute gingival conditions 7.4 Gingival enlargement 7.5 Desquamative gingivitis
Perio-8	Pathogenesis and diagnosis of periodontal diseases	<ul style="list-style-type: none"> 8.1 All forms of Periodontitis 8.2 Systemic diseases associated with periodontitis (Bidirectional relationship) 8.3 Periodontal Abscess
Perio-9	Chemotherapeutics	<ul style="list-style-type: none"> 9.1 Local antibiotics/antiseptics 9.2 Systemic antibiotics 9.3 Host Modulation
Perio-10	Imaging and Investigations	10.1
Perio-11	Relation of Systemic diseases and health of periodontium	<ul style="list-style-type: none"> 11.1 Influence of Systemic Conditions 11.2 Impact of periodontal infections on systemic health 11.3 Periodontal medicine (focal infection theory)
Perio-12	Oral Medicine Diagnosis and management	<ul style="list-style-type: none"> 12.1 White lesions 12.2 Lesions of tongue 12.3 Mucocutaneous disorders 12.4 Oral infections 12.5 Pigmented lesions 12.6 Halitosis
Perio-13	Dental Implants	<ul style="list-style-type: none"> 13.1 Science and biology of osseo-integration 13.2 Implant biomaterials—types characters and supporting material science 13.3 Various cellular mechanisms leading to bone loss around oral implants (peri-implantitis)



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		<p>13.4 Peri-implantitis and peri-implant mucositis—prevalence and basic concepts and rationale of treatment.</p> <p>13.5 Dental implants in periodontally compromised patients</p> <p>13.6 Implant supported restoration</p> <p>13.7 Risk Assessment of Implant patients</p> <p>13.8 Treatment planning and management of peri-implant lesions</p>
Perio-14	Management of Multirooted teeth	14.1
Perio-15	Risk assessment and prognosis of periodontal diseases	15.2 Oral infections
Perio-16	Supportive periodontal therapy	<p>13.9 Rationale for supportive periodontal care</p> <p>13.10 Maintenance program</p> <p>13.11 Prevention and treatment of gingivitis</p> <p>16.1</p> <p>16.2 Risk Assessment of Implant patients</p> <p>16.3 Treatment planning and management of peri-implant lesions</p>
Peri-17	Periodontal and Allied	<p>17.1 Perio-orthodontic interface</p> <p>17.2 Periodontal and endodontic lesion</p> <p>17.3 Perio-restorative interrelationship</p> <p>17.4 Aesthetics and periodontics</p> <p>17.5 Laser and periodontal therapy</p>
Perio-18	Surgical periodontal treatment	<p>18.1 Infection control protocols</p> <p>18.2 Principles of periodontal surgery</p> <p>18.3 Flap techniques for pocket reduction</p> <p>18.4 Gingivectomy</p> <p>18.5 Regeneration procedures</p> <p>18.6 Root resection/ hemisection</p> <p>18.7 Management of pigmented gingiva</p> <p>18.8 Mucogingival and plastic periodontal surgery</p> <p style="margin-left: 20px;">a) Gingival augmentation</p> <p style="margin-left: 20px;">b) Root coverage procedures</p> <p style="margin-left: 20px;">c) Crown lengthening procedure</p> <p style="margin-left: 20px;">d) Interdental papilla reconstruction</p> <p>18.9 Management of edentulous ridge</p> <p>18.10 Ridge augmentation procedure</p> <p>18.11 Periodontal dressing and sutures</p>



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Perio-19	Response of periodontal tissue to external and Occlusal Forces and Occlusal evaluation and therapy	11.1 Trauma from occlusion 11.2 Adaptive capacity of periodontium to occlusal forces 11.3 Pathological tooth migration 11.4 Pathogenesis 11.5 Occlusal function and dysfunction 11.6 Parafunction 11.7 Occlusal therapy
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Periodontology Specialty Courses



PRINCIPLES OF PATIENT MANAGEMENT

Patient assessment, examination, diagnosis & treatment planning

Objectives	Learning Outcomes	Teaching & Learning Methods	Assessments
<p>To provide information about and experience in:</p> <ul style="list-style-type: none">• History taking• Examination of orofacial soft tissues• Examination of Teeth & hard tissues• Review of periodontium• Examination of occlusion• Various diagnostic tests & investigations• Treatment plan sequencing• Interdisciplinary considerations in treatment planning	<p>The trainee should be able to:</p> <ul style="list-style-type: none">• Examine the patient thoroughly• Make a differential diagnosis• Perform relevant diagnostic tests & carry out investigations to establish definitive diagnosis• Devise strategies and plans based on the likely prognosis and outcomes of the various treatment options, relating this to prognosis without treatment and establishing a resultant priority and sequence of treatment	<ul style="list-style-type: none">• Workplace (clinical) experience• Attend trainee seminars within department• Attendance at suitable courses• Attendance at suitable meetings• Independent study	<ul style="list-style-type: none">• Workplace based assessments (CBD, DOPS)• Written Examination/ VIVA



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Biological Basis of Periodontology

Anatomy, Biochemistry and Physiology of periodontium, soft tissues and peri-implant tissue

Objectives	Learning Outcomes	Teaching & Learning Methods	Assessments
<ul style="list-style-type: none">To provide in depth knowledge of the anatomy, histology and physiology of the tissues of the periodontium and related structures	<p>The trainee should be able to:</p> <ul style="list-style-type: none">Apply knowledge of the anatomy, histology and physiology of the tissues of the oral cavity and related structures to clinical practice.	<ul style="list-style-type: none">Basic science presentationAttend trainee seminars within departmentAttendance at suitable meetingsSelf-directed & Independent study	<ul style="list-style-type: none">Written Examination/ VIVA



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Biological Basis of Periodontology

Classification and epidemiology of periodontal diseases

Objectives	Learning Outcomes	Teaching & Learning Methods	Assessments
<p>To provide in depth knowledge of</p> <ul style="list-style-type: none">• classification of periodontal diseases and diagnosis• Epidemiology of the periodontal diseases and relevant epidemiology indices and tools for disease assessment and diagnosis	<p>The trainee should be able to apply knowledge of:</p> <ul style="list-style-type: none">• Classification and epidemiology of the periodontal diseases for correct diagnosis and treatment planning.• Epidemiology in critical appraisal of the literature	<ul style="list-style-type: none">• Basic science presentation• Attend trainee seminars within department• Attendance at suitable meetings• Self-directed & Independent study• Take part in outreach programmes• Journal club	<ul style="list-style-type: none">• Written Examination/ VIVA



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Biological Basis of Periodontology

Etiology of periodontal diseases

Objectives	Learning Outcomes	Teaching & Learning Methods	Assessments
<ol style="list-style-type: none">1. To provide knowledge of oral microbiology , plaque biofilm and calculus.2. To give in depth knowledge on relationship of local and environmental factors to periodontal health	<ol style="list-style-type: none">1. The trainee should be able to apply knowledge of microbiology with emphasis on:<ul style="list-style-type: none">• The nature, composition and physiology of plaque biofilm and its relationship to inflammatory periodontal diseases.• Techniques to identify microorganisms, their application and utility in periodontal practice.2. Apply knowledge of environmental risk factors for periodontal diseases and methods for their modification (including tobacco, stress, and diet) to treatment planning of the patient3. Apply knowledge to treatment planning of periodontal patients with local risk factors and methods for their modification	<ul style="list-style-type: none">• Basic science presentation• Attend trainee seminars within department• Attendance at suitable meetings• Self-directed & Independent study• Take part in outreach programmes• Journal club/Literature review• Clinical cases for observational and personal treatment	<ul style="list-style-type: none">• Written Examination/ VIVA



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Biological Basis of Periodontology

Relationship between periodontal disease and systemic health

Objectives	Learning Outcomes	Teaching & Learning Methods	Assessments
To provide knowledge about the influence of systemic conditions on periodontium and the effect of periodontal disease on systemic health.	1. Apply knowledge of the periodontal-systemic bi-directional relationships to the diagnosis, management and maintenance of patients.	<ul style="list-style-type: none">• Basic science presentation• Attend trainee seminars within department• Attendance at suitable meetings• Self-directed & Independent study• Take part in outreach programmes• Journal club/Literature review• Clinical cases for observational and personal treatment	<ul style="list-style-type: none">• Written Examination/ VIVA• Workplace based assessments (DOPS, Mini-CEX, MSF)• OSCE



Biological Basis of Periodontology

Gingival and Periodontal Pathology

Objectives	Learning Outcomes	Teaching & Learning Methods	Assessments
<ol style="list-style-type: none"> 1. To provide in depth knowledge of pathogenesis of disease and provide skill to diagnosis and manage gingival diseases, including chronic gingivitis, gingival abscess, necrotizing ulcerative gingivitis, and acute gingival conditions. 2. To provide knowledge of pathogenesis of disease and provide skill to diagnosis and manage periodontal diseases, including chronic periodontitis and diseases modified by local and/or systemic factors. 	<ol style="list-style-type: none"> 1. Apply knowledge of infectious, inflammatory and immunological processes in oral diseases with emphasis on the pathogenesis of periodontal diseases. 2. Apply knowledge of pathogenesis of disease to the diagnosis and management of gingival diseases, including chronic gingivitis, gingival abscess, necrotizing ulcerative gingivitis, and acute gingival conditions. 3. Apply knowledge of pathogenesis of disease to the diagnosis and management of periodontal diseases, including chronic periodontitis and diseases modified by local and/or systemic factors. 4. Apply knowledge of pathogenesis of disease to the diagnosis and management of acute periodontal 	<ul style="list-style-type: none"> • Basic science presentation • Attend trainee seminars within department • Attendance at suitable meetings • Self-directed & Independent study • Take part in outreach programmes • Journal club/Literature review • Clinical cases for observational and personal treatment 	<ul style="list-style-type: none"> • Written Examination/ VIVA • Workplace based assessments (DOPS, Mini-CEX, MSF) • OSCE



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	<p>conditions, including abscesses of the periodontium, pericoronitis etc.</p> <p>5. Apply knowledge of pathogenesis of disease to the diagnosis and management of aggressive periodontal diseases, including localized and generalized aggressive periodontitis.</p> <p>6. Apply knowledge of pathogenesis of disease to the diagnosis of autoimmune diseases effecting periodontal tissues, and subsequent referral to Oral Medicine specialist</p>		
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CLINICAL PERIODONTICS

Diagnosis, Prognosis and Treatment Planning

Objectives	Learning Outcomes	Teaching & Learning Methods	Assessments
<ol style="list-style-type: none"> 1. To provide in depth knowledge of history taking, examination, investigations, chair positioning, risk assessment and prognosis of periodontal diseases in clinical setup 2. To provide in depth knowledge and skill to manage medically compromised patient suffering from periodontal diseases 	<ol style="list-style-type: none"> 1. Document relevant medical and dental history, including, periodontal charting, study casts, photographs and draft a comprehensive treatment plan (including alternatives). 2. This should also include a fully documented record of each phase of treatment in order to subsequently present these cases for assessment, if and when required 3. Should be able to prescribe and assess different imaging techniques and adjunct investigations for the diagnosis and management of periodontal diseases. 4. Should be able to identify risk factors for periodontal diseases and methods for their modification. 5. Should have knowledge about prognosis and be able to identify factors for determination of prognosis. 	<ul style="list-style-type: none"> • Basic science presentation • Attend trainee seminars within department • Attendance at suitable meetings • Self-directed & Independent study • Take part in outreach programmes • Journal club/Literature review • Clinical cases for observational and personal treatment 	<ul style="list-style-type: none"> • Written Examination/ VIVA • Workplace based assessments (DOPS, Mini-CEX, MSF) • OSCE



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	<ol style="list-style-type: none">6. Should be able to draft different treatment plans in light of examination, diagnosis, risks, clinical findings and prognosis.7. Should identify common medical conditions and treat periodontal disease of medically compromised patients according to the guidelines.8. Should apply knowledge about current treatment approaches to manage Aggressive and Atypical forms of aggressive periodontitis		
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CLINICAL PERIODONTICS

Non-Surgical Periodontal Treatment

Objectives	Learning Outcomes	Teaching & Learning Methods	Assessments
<ol style="list-style-type: none"> 1. To provide knowledge and skill for non- surgical periodontal treatment of periodontal patients. 2. To provide knowledge of adjunctive therapeutics used in non-surgical therapy 	<ol style="list-style-type: none"> 1. Should know all the steps of non surgical periodontal phase 2. Should be able to educate patients on preventive techniques, tooth brushing techniques, inter-dental cleaning, and any other technique relevant to patient’s needs. 3. Should prescribe, perform, justify and evaluate non-surgical therapy, including scaling and root planing, and be proficient in the use of routine periodontal instruments (scalers, Gracey curettes, power driven scalers etc). 4. Apply knowledge of the mechanisms, effects and interactions of medications used for the prevention and therapy of periodontal diseases, including host modulation agents, chemotherapeutics etc. 	<ul style="list-style-type: none"> • Basic science presentation • Attend trainee seminars within department • Attendance at suitable meetings • Self-directed & Independent study • Journal club/Literature review • Clinical cases for observational and personal treatment 	<ul style="list-style-type: none"> • Written Examination/ VIVA • Workplace based assessments (DOPS, Mini-CEX, MSF) • OSCE • Portfolio • Long & Short case



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CLINICAL PERIODONTICS

Surgical Periodontal Treatment

Objectives	Learning Outcomes	Teaching & Learning Methods	Assessments
<ol style="list-style-type: none"> 1. To provide knowledge and skill for basic principles of periodontal surgery 2. To provide knowledge and skill for different periodontal surgical techniques for pocket management and regeneration of lost tissue 	<ol style="list-style-type: none"> 1. Prescribe and justify surgical techniques used in periodontics, their indications and contraindications, advantages and disadvantages; and be familiar with use of specialized surgical instruments. 2. Prescribe, perform and evaluate (in a timely manner) basic surgical procedures under indirect supervision, including: <ol style="list-style-type: none"> a. Gingivectomy/Local excision, b. Periodontal Flap Surgery including access flaps and apically positioned flaps, with or without concomitant osseous surgery, 3. Plan for, and carry out under direct supervision advanced periodontal surgery, including: 	<ul style="list-style-type: none"> • Basic science presentation • Attend trainee seminars within department • Attendance at suitable meetings • Self-directed & Independent study • Journal club/Literature review • Clinical cases for observational and personal treatment 	<ul style="list-style-type: none"> • Written Examination/ VIVA • Workplace based assessments (DOPS, Mini-CEX, MSF) • OSCE • Portfolio • Long & Short case



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	<ul style="list-style-type: none">a. Root resection/hemisection procedures,b. Mucogingival and plastic periodontal surgery procedures,c. Reconstructive and regenerative periodontal surgery procedures, and be able to apply the principles of guided tissue regeneration (GTR) and use of autogenous and synthetic biomaterials in periodontal regenerative procedures.		
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PERIODONTICS AND ALLIED

Surgical Periodontal Treatment

Objectives	Learning Outcomes	Teaching & Learning Methods	Assessments
<ol style="list-style-type: none"> 1. To provide knowledge on interrelationship of periodontal health and treatment with restorative and orthodontic therapies 2. To provide knowledge and skill to manage the periodontal and pulpal diseases effecting each other. 	<p>Trainee should be able to:</p> <ol style="list-style-type: none"> 1. Interpret the interrelationship of periodontitis to pulpal disease (Perio-endo Lesions) and know their management. 2. Interpret the interrelationship of restorative therapy with periodontal health (Perio-restorative interrelationship). 3. Interpret the interrelationship of orthodontic therapy with periodontal health. 	<ul style="list-style-type: none"> • Basic science presentation • Attend trainee seminars within department • Attendance at suitable meetings • Self-directed & Independent study • Journal club/Literature review • Clinical cases for observational and personal treatment 	<ul style="list-style-type: none"> • Written Examination/ VIVA • Workplace based assessments (DOPS, Mini-CEX, MSF) • OSCE • Portfolio • Long & Short case



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DENTAL IMPLANTOLOGY

Insertion of osseointegrated dental implants including bone augmentation and soft tissue management

Objectives	Learning Outcomes	Teaching & Learning Methods	Assessments
<p>To provide in depth knowledge and skill about :</p> <ul style="list-style-type: none"> • Biology, biomechanics and placement of implants. 	<ol style="list-style-type: none"> 1. The trainee should have knowledge of osseointegration as well as the anatomy, biology and function of the peri-implant tissues. 2. The trainee should be able to: <ul style="list-style-type: none"> • Plan, perform and evaluate single tooth replacement with dental implants in non-aesthetic zone. • Plan and prescribe advanced surgical implant therapy, including surgical placement of oral implants in all areas of the dentition, in partially edentulous patients, bone augmentation procedures including grafting, guided bone regenerative procedures in conjunction with oral implants. • Apply knowledge of the various (cellular) mechanisms leading to 	<ul style="list-style-type: none"> • Systematic simulation laboratory exercises • Workplace (clinical) experience • Clinical cases for observational and personal treatment • Attend trainee seminars within department & wards • Attendance at suitable courses • Attendance at suitable meetings • Independent study 	<ul style="list-style-type: none"> • Workplace based assessments (DOPS, Mini-CEX, MSF) • OSCE



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	<p>bone loss around oral implants – Peri-implantitis.</p> <ul style="list-style-type: none">• Construct surgical and radiographic guides to aid planning of number, position and angulation of fixtures• Ability to recognize and deal with complications that may arise.		
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SUPPORTIVE PERIODONTAL THERAPY

Supportive periodontal care for Implants and Teeth

Objectives	Learning Outcomes	Teaching & Learning Methods	Assessments
To provide in depth knowledge about supportive periodontal care	The trainee should be able to <ol style="list-style-type: none">1. Assess health of periodontium around teeth and implants2. Understand the rationale of supportive periodontal care3. Have knowledge about specific methods of maintenance programmes.	<ul style="list-style-type: none">• Workplace (clinical) experience• Clinical cases for observational and personal treatment• Attend trainee seminars within department & wards• Attendance at suitable meetings• Independent study	<ul style="list-style-type: none">• Workplace based assessments (DOPS, Mini-CEX, MSF)• OSCE



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Allied specialties

Trainee will be rotating in the following department for the clear understanding of the basic concepts. Mandatory rotations for Periodontology will be as follow

- Department of Operative Dentistry 1 month
- Department of Prosthodontics 1 month
- Department of Oral & Maxillofacial surgery 1 month

*Outcomes of mandatory rotations are attached as "Annexure B"





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Research

The resident would be required to undertake a research project and to present the result for examination in the form of a thesis. They would be encouraged to present and publish the result of the project in refereed journals.

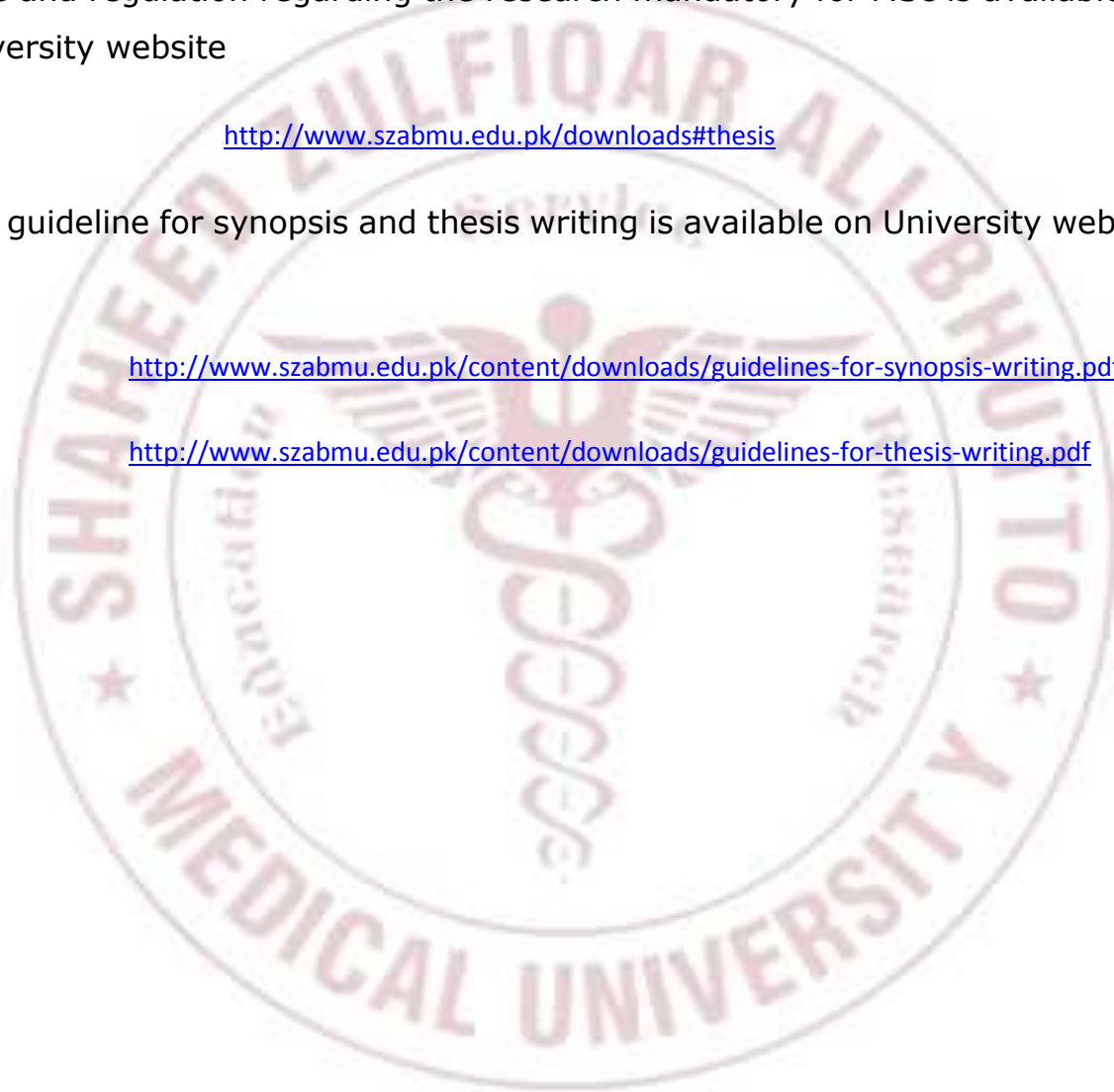
Rule and regulation regarding the research mandatory for MSc is available on university website

<http://www.szabmu.edu.pk/downloads#thesis>

The guideline for synopsis and thesis writing is available on University website at

<http://www.szabmu.edu.pk/content/downloads/guidelines-for-synopsis-writing.pdf>

<http://www.szabmu.edu.pk/content/downloads/guidelines-for-thesis-writing.pdf>







ASSESSMENT

Assessment of trainees will cover the cognitive, psychomotor and affective domains. It will take two forms

- Formative Assessment
- Summative Assessment

Formative Assessment

It is the continuous assessment of progress and competence. It will be conducted through workplace based assessment throughout the training. Assessment will be undertaken by a range of assessors and will cover a range of procedures appropriate to the stage of training. Formative assessment will include

- Directly observed practical skills (DOPS)
- Case based discussion (CbD)
- Mini clinical examination exercises (Mini-CEX)
- Multiple source feedback (MSF)

Summative Assessment

Summative assessment will be held twice

- Mid Term Assessment (MTA) (At the end of 1st year)
- Final/Exit Examination (At the end of 2nd Year)

The level of performance required for passing the exam will depend on the knowledge and skills necessary for acceptable performance and will not be adjusted to regulate the number or proportion of persons passing the examination. The pass point will be determined by careful analysis and judgment of acceptable performance.

Record of Clinical Cases

The trainees will be required to keep a record of the allocated clinical work in a log book. It will be the responsibility of trainee to keep the log book up to date with the signature of the faculty certifying the work.



TABLE OF SPECIFICATION



TABLE OF SPECIFICATION

Table of specification for Mid Term Assessment (MTA) and Final (Exist) Examination is here as under:

MID TERM ASSESSMENT (MTA)

Theory Paper

Paper I	Specialty Courses	MCQs	100 Marks
Vivo Voce Practical Exam			
Viva Voce	Specialty Course		50 Marks
Practical/OSPE/Table Viva	Specialty Course		50 Marks
Total			200 Marks

Supervisor will not be paper setter /Examiner of his/her candidate as per PMDC regulation 2001.



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FINAL EXAMINATION

Theory Paper			
Paper I	Specialty Course	MCQs	100 Marks
Paper II	Specialty Course	SAQs	100 Marks
Viva Voce Practical and Thesis Defense			
Viva Voce			60 Marks
Practical and OSCE/OSPE			140 Marks
a. Long Case (one)	(40 Marks)		
b. Short Case(three)	(30 Marks)		
c. OSCE	(70 Marks)		
Thesis Defense			
Thesis Defense			100 Marks
Total			500 Marks



TOS FOR MTA THEORY EXAMINATION

TOS ID	Title	Knowledge			Skill			Attitude			%	MCQs
		C1	C2	C3	P1	P2	P3	A1	A2	A3		
PERIO-1	Introduction to Research		03								03	03
PERIO-2	Anatomy, Histology, Biochemistry and Physiology of periodontium, soft tissues and peri-implant tissue		13								13	13
PERIO-3	Oral Microbiology, Plaque and calculus			13							13	13
PERIO-4	Host immune Defense Mechanism			10							10	10
PERIO-5	Periodontal Wound healing and Regeneration and Repair of soft and hard tissue			07							06	06
PERIO-6	Diagnosis and Classification			05							05	05
PERIO-7	Pathogenesis and diagnosis of gingival diseases			10							10	10
PERIO-8	Pathogenesis and diagnosis of periodontal diseases			10							10	10
PERIO-9	Chemotherapeutics			03							03	03
PERIO-10	Imaging and Investigations			02							02	02
PERIO-11	Relation of Systemic diseases and health of periodontium			04							04	04



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PERIO-12	Oral Medicine Diagnosis and management			06							06	06
PERIO-13	Dental implants			06							06	06
PERIO-18	Surgical periodontal treatment			07							07	07
PERIO-19	Response of periodontal tissue to external and Occlusal Forces and Occlusal evaluation and therapy			02							02	02
TOTAL											100	100

Note: The details of these modules titles are given below





Detail of TOS for MTA Theory Examination

TOS ID	Title	TOS Sub ID	Detail of Title	Weightage %	MCQs
PERIO-1	Introduction to Research	PERIO-1.1	Basic Epidemiology Terms	03	03
		PERIO-1.2	Epidemiological study Design		
		PERIO-1.3	Basic Biostatistics		
		PERIO-1.4	Writing research proposal		
		PERIO-1.5	Critical appraisal		
PERIO-2	Anatomy, Histology, Biochemistry and Physiology of periodontium, soft tissues and peri-implant tissue	PERIO-2.1	Periodontal and peri-implant mucosa and connective tissue	13	13
		PERIO-2.2	Cementum and periodontal attachment apparatus		
		PERIO-2.3	Alveolar bone and biology of mineralization		
		PERIO-2.4	Blood supply and lymphatic system of periodontium		
		PERIO-2.5	Periodontal and peri-implant innervation and proprioception		
		PERIO-2.6	Gingival crevicular fluid and characteristics and functions		
PERIO-3	Oral Microbiology, Plaque and calculus	PERIO-3.1	Nature, composition, physiology of plaque biofilm and its role in inflammatory periodontal disease	13	13
		PERIO-3.2	Periodontal Microiology, Periodontal pathogens		
		PERIO-3.3	Microbial Virulence: general concepts, cellular microbiology and microbial interaction, periodontal context and microbial interaction		
		PERIO-3.4	Calculus formation, composition, structure, mineralization and clinical implications.		



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TOS ID	Title	TOS Sub ID	Detail of Title	Weightage %	MCQs
PERIO-4	Host immune Defence Mechanism	PERIO-4.1	Innate elements of defense	10	10
		PERIO-4.2	Innate inflammatory mediators		
		PERIO-4.3	Adaptive immune response		
		PERIO-4.4	Collagen and matrix metalloproteinases		
		PERIO-4.5	Extra cellular Matrix		
PERIO-5	Periodontal Wound healing and Regeneration and Repair of soft and hard tissue	PERIO-5.1	Basic principle, physiology and control of wound healing with application to human periodontium	06	06
		PERIO-5.2	Cellular and molecular changes and interaction in normal wound healing of periodontal and peri-implant hard tissue.		
		PERIO-5.3	Acquired systemic factors affecting normal periodontal wound healing—possible mechanisms and basic theory supporting appropriate intervention.		
		PERIO-5.4	GTR and agents used to enhance periodontal healing and regeneration—biological basis		
PERIO-6	Diagnosis and Classification	PERIO-6.1	Classification and epidemiology of periodontal diseases	05	05
		PERIO-6.2	Examination, Diagnosis, Treatment plan of periodontal patients:		
PERIO-7	Gingival diseases	PERIO-7.1	Pathogenesis, clinical features, diagnosis and management of Gingivitis	10	10
		PERIO-7.2	Pathogenesis, clinical features and diagnosis of Gingival abscess		
		PERIO-7.3	Pathogenesis, clinical features, diagnosis and management of Gingival enlargement		
PERIO-8	Periodontal diseases	PERIO-8.1	Pathogenesis, clinical features, diagnosis and management of All forms of Periodontitis	10	10
		PERIO-8.2	Systemic diseases associated with periodontitis (Bidirectional relationship)		



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TOS ID	Title	TOS Sub ID	Detail of Title	Weightage %	MCQs
		PERIO-8.3	Pathogenesis, clinical features, diagnosis and management of Periodontal Abscess		
PERIO-9	Chemotherapeutics	PERIO-9.1	Local antibiotics/antiseptics	03	03
		PERIO-9.2	Systemic antibiotics		
Perio-10	Imaging and investigations	PERIO-10.1		02	02
Perio-11	Relation of Systemic diseases and health of periodontium	PERIO-11.1	Influence of Systemic Conditions	04	04
		PERIO-11.2	Impact of periodontal infections on systemic health		
		PERIO11.3	Periodontal medicine (focal infection theory)		
Perio-12	Oral Medicine Diagnosis and management	PERIO-12.1	White lesions	06	06
		PERIO-12.2	Lesions of tongue		
		PERIO-12.4	Pigmented lesions		
Perio-13	Dental Implants	PERIO-13.1	Science and biology of osseo-integration	06	06
		PERIO-13.2	Implant biomaterials—types characters and supporting material science		
		PERIO-13.3	Various cellular mechanisms leading to boneloss around oral implants (peri-implantitis)		
		PERIO-13.4	Peri-implantitis and peri-implant mucositis—prevalence and basic concepts.		
Perio-18	Surgical Periodontal Treatment	PERIO-18.1	Infection control protocols	07	07
		PERIO18.2	Principles of periodontal surgery		
		PERIO18.3	Flap techniques		
		PERIO18.4	Gingivectomy		



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TOS ID	Title	TOS Sub ID	Detail of Title	Weightage %	MCQs
Perio-19	Response of periodontal tissue to external and Occlusal Forces and Occlusal evaluation and therapy	PERIO19.1	Trauma from occlusion	02	02
		PERIO-19.2	Adaptive capacity of periodontium to occlusal forces		
		PERIO-19.3	Pathological tooth migration		

TOS FOR MTA PRACTICAL EXAMINATION

10 OSCE-Stations (100 Marks)

(5 minutes each station)

TOS ID	Title	Stations
PERIO-06	Diagnosis and Classification	1
PERIO-07	Pathogenesis and diagnosis of gingival diseases	1
PERIO-08	Pathogenesis and diagnosis of periodontal diseases	1
PERIO-18	Surgical Periodontal Treatment	2
Total		10



TOS for Final/Exit Examination MSc (Periodontology)

Final Examination (After completion of 2 years)

The student shall submit completion of training certificate, Log Book, mandatory workshop attendance, thesis on research topic approved by supervisor, through the Dean to the Controller of Examination. If the thesis not approved by the supervisor, application for extension may be recommended by supervisor through Registrar to the AS&RB. The final examination of major subject, thesis evaluation and viva voce examination will be conducted by board examiners in major subjects. The candidate will be examined in major subject and thesis as under: supervisor will not be paper setter /Examiner of his/her candidate as per PMDC regulation 2001.

Theory Paper		200 Marks
Paper I	Speciality Course MCQs	100 Marks
Paper II	Speciality Course SAQs	100 Marks
Viva Voce & Practical		200 Marks
Viva Voce		40 Marks
Practical and OSCE/OSPE		140 Marks
a.	Long Case (One)	(40 Marks)
b.	Short Case (Three)	(30 Marks)
c.	OSCE	(70 Marks)
Thesis Defence		100 Marks
TOTAL		500 Marks



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TOS for Theory Paper A & B Final Exit Examination

TOS ID	Titles	Weightage				MCQs	SEQs/ SAQs
		Knowledge (C3)	Skill	Attitude	Total %		
PERIO-3	Oral Microbiology	05			2.5	05	0
PERIO-7	Pathogenesis, diagnosis and management of gingival diseases	13			11	12	01
PERIO-8	Pathogenesis, diagnosis and management of periodontal diseases	16			12.5	15	01
PERIO-9	Chemotherapeutics	03			1	02	01
PERIO-11	Relation of Systemic diseases and health of periodontium	06			7.5	05	01
PERIO-12	Oral Medicine Diagnosis and management	06			3	06	0
PERIO-13	Dental Implants	17			17.5	15	02
PERIO-14	Management of Multirooted teeth	04			6.5	03	01
PERIO-15	Risk assessment and prognosis of periodontal diseases	03			1.5	03	0
PERIO-16	Supportive periodontal therapy	02			1	02	0
PERIO-17	Periodontal and Allied	08			8.5	07	01
PERIO-18	Surgical periodontal treatment	25			12.5	23	02



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TOS ID	Titles	Weightage				MCQs	SEQs/ SAQs
		Knowledge (C3)	Skill	Attitude	Total %		
PERIO-19	Response of periodontal tissue to external and Occlusal Forces and Occlusal evaluation and therapy	02			1	02	0
TOTAL					100	100	10

The details of these Titles are given below





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Detail of TOS for Theory Paper A & B Final Exit Examination

TOS ID	Titles	TOS Sub ID	Detail of Titles	Weightage %	MCQs	SEQs/SAQs
PERIO-3	Oral Microbiology	Perio-3.5	Microbiological methods classical and molecular approaches and relevance for periodontal methodology	10	10	01
		Perio-3.6	Techniques to identify microorganisms, their application and utility in periodontal practice			
PERIO-7	Gingival diseases	Perio-7.3	Pathogenesis, clinical features, diagnosis and management of Acute gingival conditions	10	10	04
		Perio-7.4	Pathogenesis, clinical features, diagnosis and management of Gingival enlargement			
		Perio-7.5	Pathogenesis, clinical features, diagnosis and management of Desquamative gingivitis			
PERIO-8	Periodontal diseases	Perio-8.1	Pathogenesis, clinical features, diagnosis and management of all forms of Periodontitis	10	10	01
		Perio-8.2	Systemic diseases associated with periodontitis (Bidirectional relationship)			
		Perio-8.3	Pathogenesis, clinical features, diagnosis and management of Periodontal Abscess			
PERIO-9	Chemotherapeutics	Perio-9.3	Host Modulation therapy	05	05	01
PERIO-11	Relation of Systemic diseases and health of periodontium	Perio-11.3	Periodontal medicine focal infection theory)	20	20	04
PERIO-12	Oral Medicine Diagnosis and management	Perio-12.3	Mucocutaneous disorders	15	15	03
		Perio-12.4	Oral infections			
		Perio-12.6	Halitosis			
PERIO-13	Dental Implants	Perio-13.4	Peri-implantitis and peri-implant mucositis—prevalence, basic concepts and rationale of treatment	10	10	02



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TOS ID	Titles	TOS Sub ID	Detail of Titles	Weightage %	MCQs	SEQs/SAQs
		Perio-13.5	Dental implants in periodontally compromised patients			
		Perio-13.6	Implant supported restoration			
		Perio-13.7	Risk Assessment of Implant patients			
		Perio-13.8	Treatment planning and management of peri-implant lesions			
PERIO-14	Management of Multirooted teeth	Perio-8.1		10	10	02
PERIO-15	Risk assessment and prognosis of periodontal diseases	Perio-15.1		05	05	01
		Perio-15.2	Oral infections			
PERIO-16	Supportive periodontal therapy	Perio-16.1	Rationale for supportive periodontal care	05	05	01
		Perio-16.2	Maintenance program			
		Perio-16.3	Prevention and treatment of gingivitis			
		Perio-16.4				
		Perio-16.5	Risk Assessment of Implant patients			
PERIO-17	Periodontal and Allied	Perio-17.1	Perio-orthodontic interface			
		Perio-17.2	Periodontal and endodontic lesion			
		Perio-17.3	Perio-restorative interrelationship			
		Perio-17.4	Aesthetics and periodontics			
		Perio-17.5	Laser and periodontal therapy			
PERIO-18	Surgical periodontal treatment	Perio-18.5	Regeneration procedures			
		Perio-18.6	Root resection/ hemisection			
		Perio-18.7	Management of pigmented gingiva			
		Perio-18.8	Mucogingival and plastic periodontal surgery a) Gingival augmentation b) Root coverage procedures c) Crown lengthening procedure d) Interdental papilla reconstruction			
		Perio-18.9	Management of edentulous ridge			



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TOS ID	Titles	TOS Sub ID	Detail of Titles	Weightage %	MCQs	SEQs/SAQs
		Perio-18.10	Ridge augmentation procedure			
		Perio-18.11	Periodontal dressing and sutures			
PERIO-19	Response of periodontal tissue to external and Occlusal Forces and Occlusal evaluation and therapy	Perio-19.5	Occlusal function and dysfunction			
		Perio-19.6	Parafunction			
		Perio-19.7	Occlusal therapy			

TOS for Practical/Viva Voce Final Exit Examination

10 OSCE-Stations (70 Marks)

(5 minutes each station)

TOS ID	Title	Stations
PERIO-1	Principles of oral & maxillofacial surgery	01
PERIO-2	Minor oral surgery	02
PERIO-3	Maxillofacial infections	01
PERIO-4	Dental & Maxillofacial Implantology	01
PERIO-5	Maxillofacial trauma	02
PERIO-6	Maxillofacial pathology & Reconstruction	01
PERIO-7	Oro-facial pain & Temporomandibular joint disorders	01
PERIO-8	Facial deformity & Orthogenetic surgery	01
PERIO-9	Facial aesthetic surgery	
TOTAL		10



LEARNING RESOURCES



LEARNING RESOURCES

List of Essential Readings

Books:

Latest edition of the all of the following books

- 1) Carranza's Clinical Periodontology
- 2) Clinical Periodontology and Implant Dentistry
- 3) Complications in Oral Implantology – Carl E.Misch, Resnick
- 4) Contemporary Implant Dentistry –Carl E. Misch
- 5) Periodontal Surgery: A Clinical Atlas

Journals:

Issues of last two years of the following journals

INTERNATIONAL JOURNALS:

- 6) Journal Of Clinical Periodontology
- 7) Journal of Periodontology
- 8) International Journal Of Implant Dentistry
- 9) Dental Update

LOCAL JOURNAL:

- 1) Pakistan Oral and Dental Journal



PROGRAM EVALUATION



PROGRAM EVALUATION

The program director will continue to ensure that the program is fit for purpose in that it provides the trainee with the appropriate knowledge, skills, attitudes and competencies required to meet the requirements of a specialist.

Program evaluation will be carried out after every two years according to the CIPP model of evaluation. Any suggested updates will only be made following appropriate consultation with stakeholders, including trainees and lay members.

Feedback forms are attached as "Annexure A"





ANNEXURE A

Supervisor Evaluation Form

Date: _____ Supervisor's Name: _____

Your Name: _____ Signature: _____

Evaluations of supervisors by Trainee's are an important process for providing supervisors with an assessment of the quality of their work. Annual supervisor assessments can be used to compliment a supervisor for doing a good job. Annual assessments can also identify areas for improvement. Evaluations can strengthen communications between supervisors and trainee's.

Trainees have three options for evaluating supervisors:

- 1) Completing the Evaluation of Supervisor form.
- 2) Writing a signed memo evaluating the supervisor.
- 3) Meeting with the supervisor's department head.

Evaluations received by the deadline (January 15) will be incorporated into the annual review of the supervisor. Forms and/or signed memos should be sent to the Human Resources department.

* * *

(E=Excellent, G=Good, S=Satisfactory, N=Needs Work, U=Unsatisfactory, Ø=No Opinion)

Performs Supervisory Functions

Provides on-going positive and negative feedback	E	G	S	N	U	Ø
Makes expectations known	E	G	S	N	U	Ø
Is tactful and considerate	E	G	S	N	U	Ø
Promotes teamwork and good working relationships	E	G	S	N	U	Ø
Recognizes and addresses concerns in a timely manner	E	G	S	N	U	Ø
Delegates authority appropriately	E	G	S	N	U	Ø
Provides training of new employees	E	G	S	N	U	Ø



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Provides direction of work	E	G	S	N	U	∅
Communicates openly and honestly with peers, staff and administration	E	G	S	N	U	∅

Comments: _____

Develops Innovative Procedures

Is receptive to new ideas	E	G	S	N	U	∅
Is receptive to questions	E	G	S	N	U	∅
Encourages initiative and innovation	E	G	S	N	U	∅

Comments: _____

III. Maintain Positive Works Environment

Recognizes contributions	E	G	S	N	U	∅
Motivates workers	E	G	S	N	U	∅



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Provides relaxed yet efficient work atmosphere	E	G	S	N	U	∅
Encourages staff development	E	G	S	N	U	∅

Comments: _____

Knows the Operations of the Department

Understands employee workload	E	G	S	N	U	∅
Is alert to potential problems	E	G	S	N	U	∅
Keeps staff informed about department and university developments	E	G	S	N	U	∅

Comments: _____

Work Habits

Acknowledges own limitations and mistakes	E	G	S	N	U	∅
Maintains a positive work attitude	E	G	S	N	U	∅
Uses time efficiently and effectively	E	G	S	N	U	∅

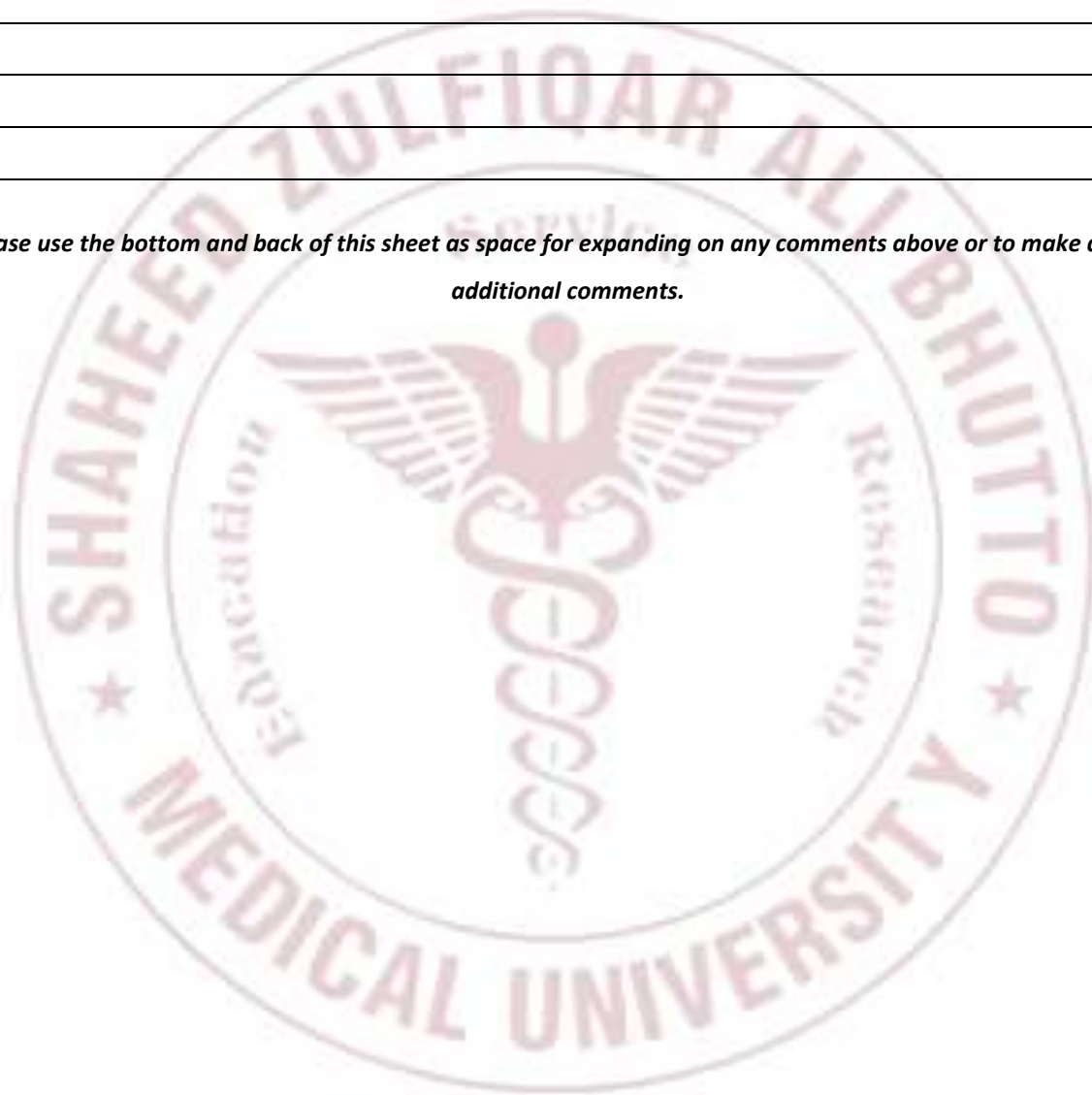


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Demonstrates a good work ethic	E	G	S	N	U	Ø
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Comments: _____

Please use the bottom and back of this sheet as space for expanding on any comments above or to make any additional comments.





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Program Evaluation Form

Please use the following scale to indicate your response to the statements below:

SA = strongly agree

A = agree

N = neither agree/disagree

D = disagree

SD = strongly disagree

The information was presented effectively	SA	A	N	D	SD
The information presented was practical	SA	A	N	D	SD
The program provided a good working knowledge of the subject matter presented	SA	A	N	D	SD
The program has allowed me to acquire practical skills and knowledge to manage my business more effectively and efficiently	SA	A	N	D	SD
The program attended was sufficient for my purpose	SA	A	N	D	SD