



COMMUNITY DENTISTRY

**Training Program
Leading to the degree of**

MASTER OF PHILOSOPHY

**SHAHEED ZULFIQAR ALI BHUTTO MEDICAL UNIVERSITY
ISLAMABAD**



CURRICULUM BRIEF

Master of Philosophy

(MPhil)

Community Dentistry



CURRICULUM DEVELOPMENT COMMITTEE

This Curriculum is developed by the following committee members.

- **Dr Rubina Mumtaz**
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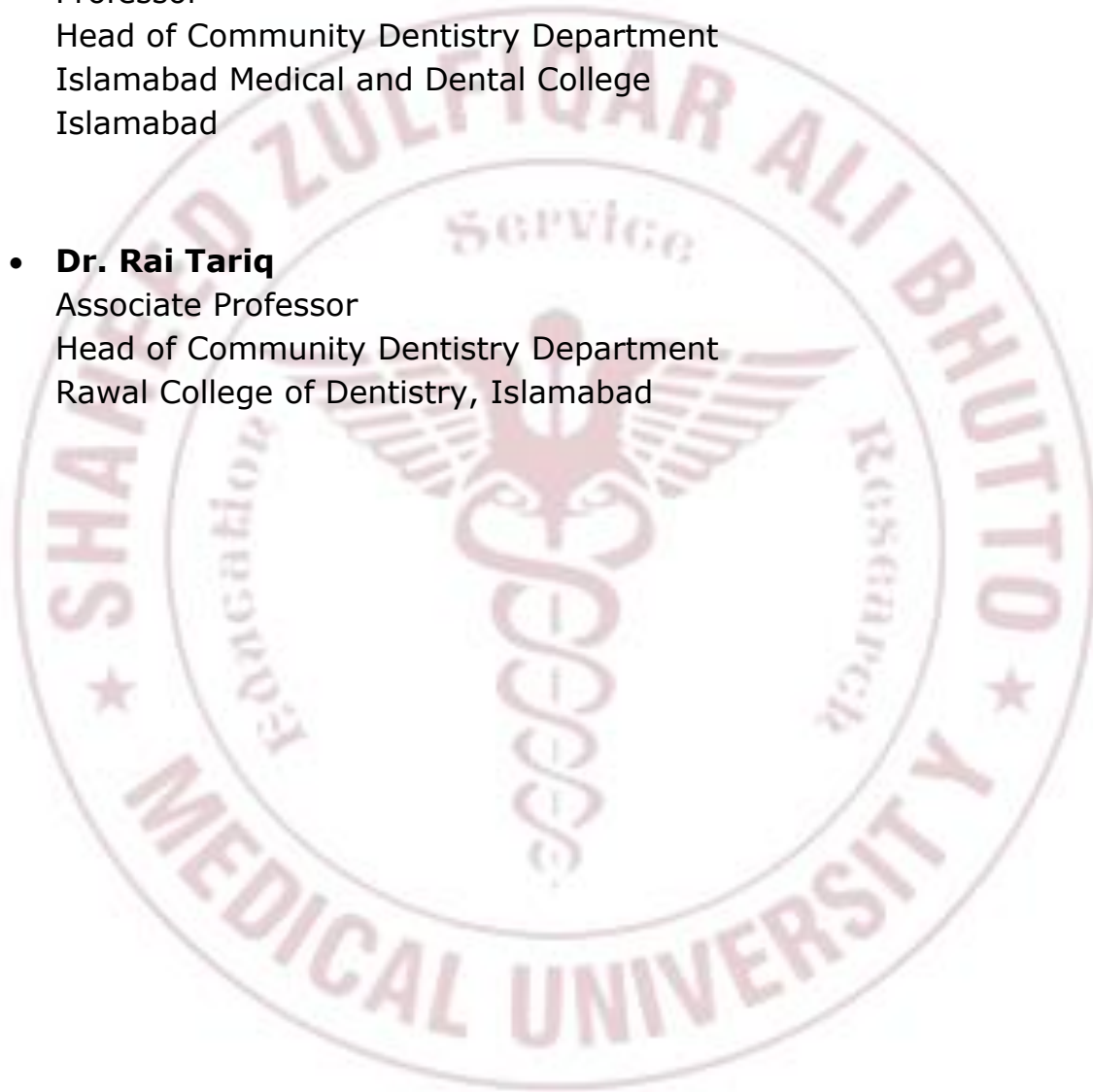




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ROAD MAP OF MPhil COMMUNITY DENTISTRY
(A Brief Summary)

GENERAL INFORMATION AND PROGRAM GOALS:

The University offers a 02-year MPhil program in the field of Community Dentistry. This program intends to attract candidates that have an interest in the public health aspect of dentistry. The curriculum focuses on supervisor led training, community outreach and research.

This curriculum has been developed using the SPICES approach which is based on the key elements of student-centered & problem-based learning, integrated or inter-professional teaching, community-based education, elective studies, all based on a systematic or planned approach.

COURSE DESCRIPTION:

The program of MPhil COMMUNITY DENTISTRY will consist of 64 credits of various courses distributed over a span of two academic years composed of four 6-monthly semesters. The two-year course includes 320 formal teaching hours and 1024 hours of practical/fieldwork/community outreach. The latter may include individual/group fieldworks, field visits of community oral health camps & school screening programs, clinical assignments & departmental/hospital duties.

The program consists of eight (08) specialty modules, which are specific to the field of community dentistry.



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Specialty Modules:

The specialty courses are coded as **CD-□□**. Timetable and credit distribution is as follows:

Code	Course title	Credit hours
ACADEMIC YEAR I		
CD-01	Fundamentals of Dental Public Health	5
CD-02	Principles of Oral Epidemiology	8
CD-03	Principles of Biostatistics	8
CD-04	Qualitative Research Methods in Dentistry	3
CD-05	Occupational Health in Dentistry	3
	Research (synopsis)	5
	Total Credits in Year I	32
Mid Term Assessment Exam		
By University		
ACADEMIC YEAR II		
CD-06	Environmental sciences as applied to dentistry	3
CD-07	Behavioural Sciences & Social Determinants of Oral Health	6
CD-08	Oral Health Promotion Program & Prevention Planning & Management	8
	Research (Thesis)	15
	Total Credits in Year 2	32
	TOTAL CREDITS COMBINED	64
Exit Examination		
By University		

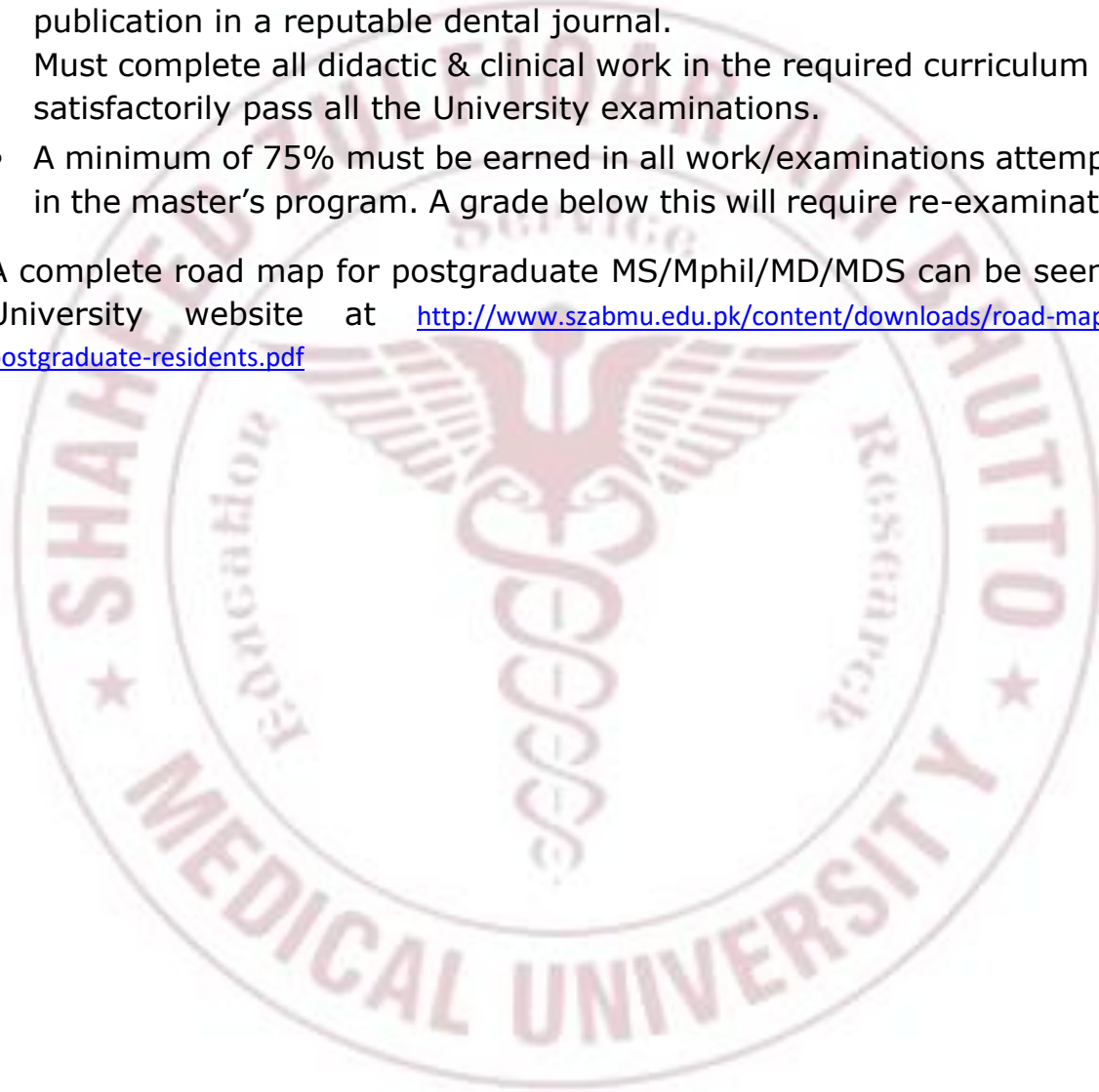


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Requirements of MPhil Degree for Graduate students Enrolled in the Program.

- Fulfillment of University requirements for postgraduate study.
- Two (2) years of consecutive full-time advanced study and 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 75% 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 MS/Mphil/MD/MDS can be seen on University website at <http://www.szabmu.edu.pk/content/downloads/road-map-for-postgraduate-residents.pdf>





INTRODUCTION



INTRODUCTION

The training program in Community Dentistry is a two-year course covering all aspects of dental public health and leading to the degree of Master of Philosophy (MPhil) in Community Dentistry.

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 have been identified through formal and informal discussion with the stakeholders.

- Deficiency of the quality public health dentists for both urban and rural areas as well as private and public sectors in the field of Community Dentistry/Dental Public Health
- Dearth deficiency of competent faculty in the field.
- Deficiency of state-of-the-art community dentistry training centers in the country.

Purpose of training

To provide guided training and assessment of specialty trainees in community dentistry to produce consultants and trainers who are proficient in the contemporary skills of all the domains of community dentistry and are competent to carry out individual research and continuing professional development.

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 from the program. The training will provide a basis for the candidate to develop into a lifelong learner who is capable of self-reflection and self-



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directed learning. It will provide a basis for further ongoing development in the field of community dentistry.

Duration of training

The program leading to MPhil in Community Dentistry will be of 02 years full time.





AIMS & OBJECTIVES



AIMS & OBJECTIVES.

Aims of Training.

The MPhil in Community Dentistry program aims to produce a highly knowledgeable individual who is proficient and skillful in community dentistry. In addition, there must be an appreciation of the need for lifelong learning, and the need to apply advances in relevant knowledge. The course seeks to develop an understanding of the basic concepts of community dentistry, the major health problems (and their determinants) of a community, the organization of health services, research methods including epidemiology and methods of control and prevention of oral and dental diseases.

Learning Objectives

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

Knowledge

1. Review and discuss the science and philosophy of dental public health; its history and evolution to its current global and national status.
2. Differentiate occupational hazards in dentistry and utilize international regulatory standards as a guide to apply policies, procedures, and protocols to control hazards in the dental office.
3. Demonstrate the ability to apply principles of program planning, implementation, and evaluation of oral health programs for prevention, health promotion and education of the community.
4. Distinguish behavioral, social, and cultural factors that impact individual and population oral health and health disparities over the life course.



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5. Demonstrate the relationship between environmental factors and community health; discuss remediation for environmental health problems.

Skill

1. Design and conduct epidemiologic methods to analyze patterns and causal inference of oral disease along with critical appraisal, synthesis and integration of epidemiologic research.
2. Execute appropriate statistical methods to analyze data and describe research of any given public health problem.
3. Design and conduct qualitative research methods to evaluate patterns of social determinants of oral health behavior.
4. Formulate a hypothesis based on an original research question, design and show evidence the ability to conduct an interventional research study and defend the research findings based on a thesis format.

Attitude

- Demonstrate a professional and ethical approach to research based on the four principles of ethics Autonomy, Beneficence, Justice and Integrity and malfeasance.
- Demonstrate a professional and empathetic attitude towards members of the general community especially the weak and vulnerable.
- Demonstrate a professional attitude to all the members of the team.
- Demonstrate full and clear understanding of equality and diversity legislation as it applies to the workplace and to professional dental public health.





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Eligibility to apply for MPhil Community Dentistry

- Candidate must possess BDS or equivalent degree and one year house job from PMDC recognized Institutions.
- Permanent valid registration with PMC.
- Declared successful in entry test Part-I for Shaheed Zulfiqar Ali Bhutto Medical University, Islamabad.
- In case of foreign candidate, valid registration with Medical Council of their country of origin must be produced.

Required Documents

Attested photocopies 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
- Entry Test Part-I passing certificate
- Experience Certificates (if any)
- Migration Certificate, if applicable (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>





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 based on preventive clinic settings and field based interventions and will cover a range of procedures appropriate to the stage of training.

Summative Assessment

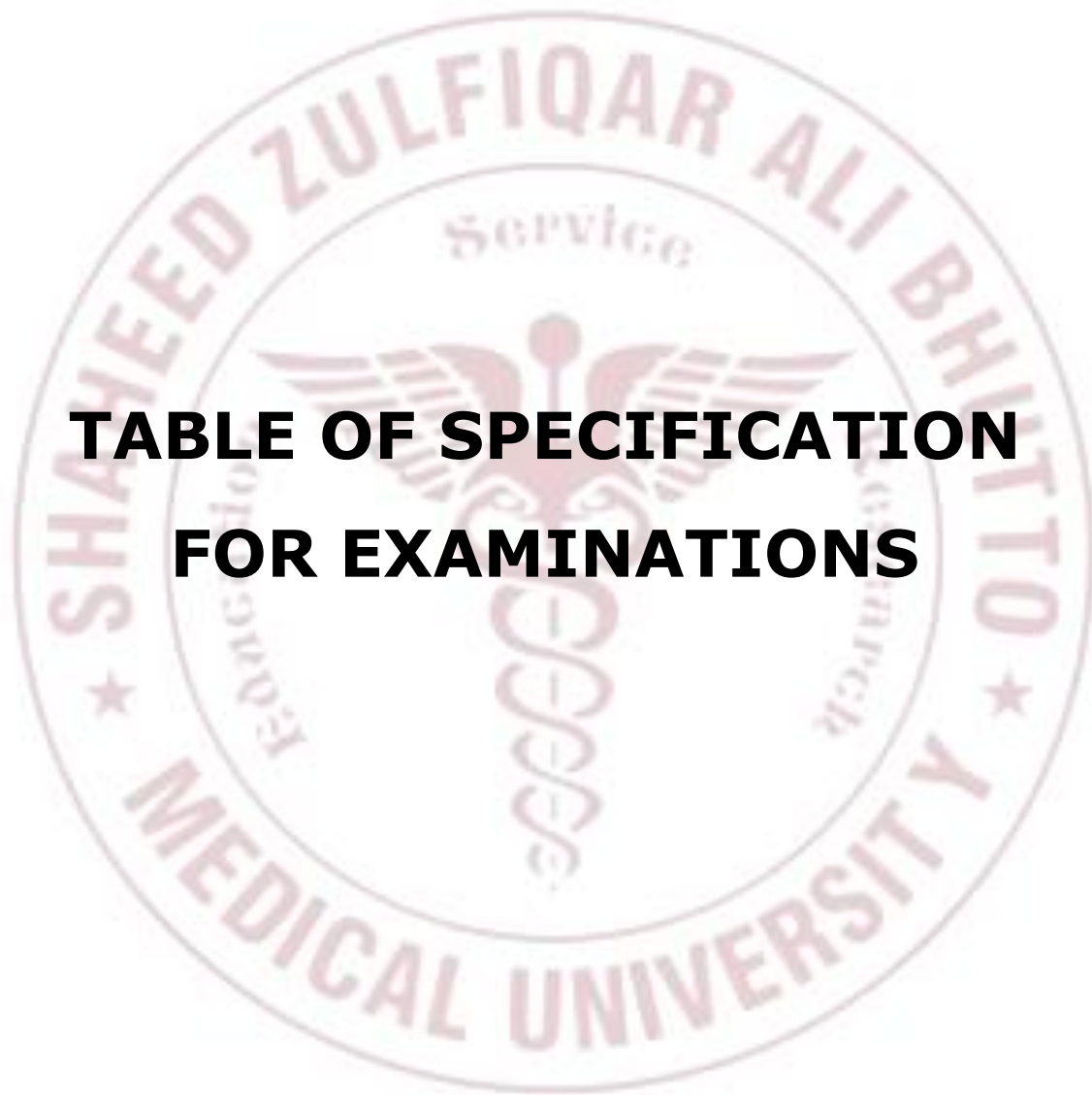
Summative assessment will be held twice

- Mid Term Assessment (MTA) Examination (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 community and preventive clinical work in a logbook. It will be the responsibility of trainee to keep the logbook up to date with the signature of the faculty certifying the work.



**TABLE OF SPECIFICATION
FOR EXAMINATIONS**



TABLE OF SPECIFICATION

Table of specification for Mid Term Assessment (MTA) and Final (Exit) Examination is as follows

TOS FOR MID TERM ASSESSMENT (MTA) MPhil Community Dentistry

There will be one theory paper.

Theory Paper (MCQs)

100 Marks

TOS ID	Titles	Weightage				MCQs
		Knowledge	Skill	Attitude	Total %	
CD-01	Fundamentals of Dental Public Health	15	05	00	20	20
CD-02	Principles of Oral Epidemiology	15	10	05	30	30
CD-03	Principles of Biostatistics	10	15	00	25	25
CD-04	Qualitative research methods in Dentistry	03	03	04	10	10
CD-05	Occupational Health in Dentistry	05	05	05	15	15
TOTAL					100	100



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TOS for Final/Exit Examination MPhil Community Dentistry

Final Examination (After completion of 2 years)

The student shall submit completion of training certificate, Logbook, 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 of four (04) 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 MCQs	100 Marks

Viva Voce & Practical

300 Marks

a) Viva Voce	100 Marks
b) OSPE (10 stations)	100 Marks
c) Critical Appraisal skills	100 Marks

Thesis Defence

100 Marks

TOTAL

600 Marks



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TOS for Theory Paper I & II Final Exit Examination

TOS ID	Titles	Weightage				MCQs
		Knowledge	Skill	Attitude	Total %	
CD-02	Principles of Oral Epidemiology	15	10	05	30	60
CD-03	Principles of Biostatistics	10	10	00	20	40
CD-06	Behavior Sciences and Social Determinants of Health	05	05	05	15	30
CD-07	Environmental Sciences as applied to Dentistry	05	02	03	10	20
CD-08	Oral Health promotion and Prevention Program Planning and Management	10	10	05	25	50
TOTAL					100	200



TOS for Practical/Viva Voce Final Exit Examination

10 OSCE-Stations (100 Marks)

(12 minutes each station)

TOS ID	Title	Stations
CD-02	Principles of Oral Epidemiology	03
CD-03	Principles of Biostatistics	02
CD-06	Behavioural Sciences and Social Determinants of Health	02
CD-07	Environmental Sciences as applied to Dentistry	01
CD-08	Oral Health promotion and Prevention Program Planning and Management	02
TOTAL		10

Critical Appraisal

Candidate will critically appraise an "original research" article published in a peer-reviewed international community dentistry journal not older than 5 years. (excluding Systematic Reviews, Meta-analysis, and qualitative research articles).

The critical appraisal can be handwritten or typed. For the latter choice, candidate will be allowed to use a computer/laptop. Candidate can bring his/her personal laptop plus a USB. Alternatively, a desktop computer may be provided by the University. During the task, internet connection will not be allowed, and the only window open allowed is Microsoft Word. The document can be saved on desktop.



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The critical appraisal should be between 250-350 words, not inclusive of title page, in Font Calibri size 11 with 1.5 line spacing and numbered pages. Composition of the title page of must be as follows:

Critical Appraisal of "title of publication"

Exit Exam of MPHIL Community Dentistry

- Candidate Name & Signature: _____

- Date and Venue _____

- Word count _____

Submission can be either electronically or a hard copy (recommended)

- For electronic submission, PDF file format document to be emailed to examination cell SZAMBU (please provide email address to candidate and ensure email has been sent and received)
- For hard copy submission, print on single side of paper and candidate signature is mandatory. Examination cell must provide printer services.

Critical appraisal to be reviewed by at least 2 examiners; The average of their marking scores to be calculated as final score.

Defense of Thesis

Candidate will present his/her thesis in a power point presentation to a panel of 4 reviewers.



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 trainees 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 trainees.

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	Ø
Communicates openly and honestly with peers, staff and administration	E	G	S	N	U	Ø

Comments: _____

Develops Innovative Procedures

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

Comments: _____

III. Maintains a positive work environment

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



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

Comments: _____

Knows the Operations of the Department

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

Comments: _____

Work Habits

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

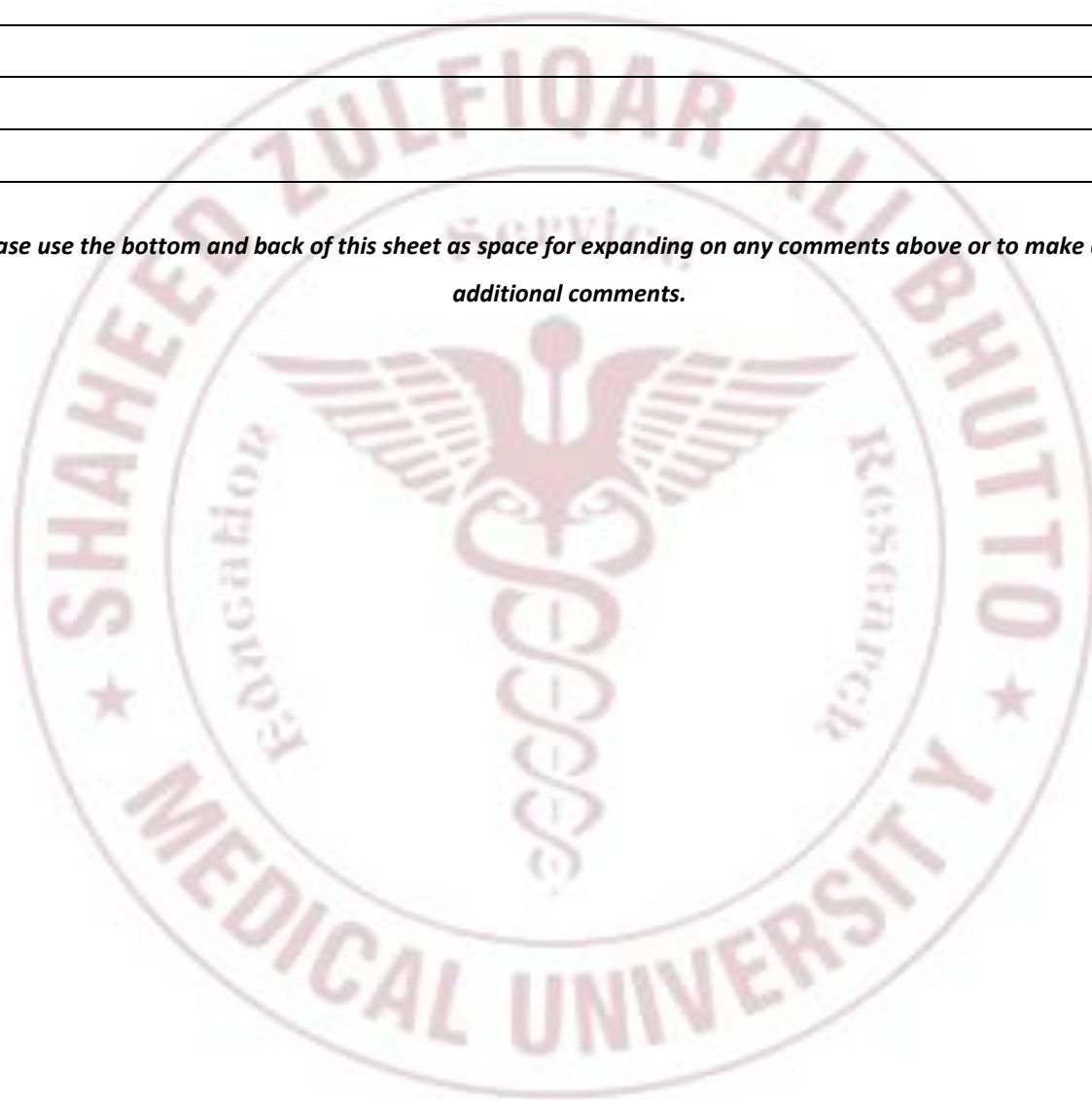


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Demonstrates a good work ethic	E	G	S	N	U	Ø
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Comments: _____

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