

DOCTOR OF MEDICINE (MD) IN INTERNAL MEDICINE

STATUTES

1. The minimum duration of studies for M.D. Degree shall be of four years.
2. The requirement for the degree of M.D. shall be:
At the end of 4 years training student will be examined. Three parts of examination:
 - i. Theory Examination
 - ii. Clinical
 - iii. Defence of Thesis

He / she will be allowed to appear examination when he/she has fulfilled all criteria:

Criteria	Description
1	4 year Satisfactory training certificates by supervisor
2	Approval of thesis
3	One paper and one review article (Published or accepted for publication in PMDC approved Journal)
4	Compulsory preparatory courses

REGULATIONS

1. Application for admission shall be made to the Registrar on the prescribed form. Candidates possessing MBBS (within last 7 years) or equivalent qualification recognized by PMDC and have done one year of House Job in a position recognized by PMDC with 6 months in medicine. Candidates with experience as RMO in Medicine will be preferred. Eligible candidates may be required to pass an Entrance test and will be interviewed for suitability by a committee appointed by the BASR. Candidates accepted for training will be given a trainee appointment in the hospital for which they will receive a stipend. Those with FCPS Medicine or MRCP will be exempted from 2 years of training and part I and part II of examination.
2. At the end of the training of MD in Internal Medicine, the candidate should have developed clinical expertise in comprehensive management of medical patients independently and deal with complications. Candidate should be able to organize training for other professionals and critically evaluate publications in Internal Medicine.
3. Each student will be continuously evaluated through evaluation forms and log books in each of the courses. The examination shall cover not only the formal material in the syllabus but also from the reading and discussion of medical literature. The emphasis

will be on the ability to solve problems of the types trainees are likely to confront while working independently. At the end of four years a qualifying examination will be given which shall consist of written and clinical examination. This will include Medicine as well as Basic Medical Sciences subjects. The evaluation of competence as a specialist will also be done.

4. If the progress of the student is unsatisfactory, the candidate will be informed in writing to improve. If the candidate fails to improve despite warning, the BASR will recommend the termination of admission.

Regulation relating to clinical training

Objective:

At the end of the training of MD in Internal Medicine, the candidate should have developed the following expertise:

Area	Competencies
Clinical	<ul style="list-style-type: none"> ● Obtain patient history ● Perform detailed physical examination ● Correlate above data to formulate diagnosis ● Plan appropriate investigations & interpret results ● Initiate comprehensive management of Medical Patients independently ● Deal effectively and promptly with complications as & when they arise ● Prepare concise summary of cases, initiate clinical audit and self evaluation techniques
Administrative	<ul style="list-style-type: none"> ● Be a role model member of patient care team and display communication skills with other health professionals, community, patient's family etc. ● Ability to advise or organize training for other professional / paramedical colleagues & trainees in areas pertinent to his own interest and acquired skills.
Research	<ul style="list-style-type: none"> ● The prime objective of research training in clinical medicine is to promote/enhance critical thinking in day to day professional life.

Thesis:

Stage	Description
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Synopsis	By the end of the first year of training a detailed synopsis defining the subject of the research, the objectives, the methodology and references must be submitted to the postgraduate office. Evaluated by the professor / supervisor / Dean of Research; finally approved by the Board of Advance Studies and Research.
Final Thesis	By the end of 4 years training a final thesis must be submitted to the postgraduate office for evaluation by the Board of Advance Studies & Research. Panel of examiners will include at least 2 external examiners before being awarded the MD / MS degree; the candidate will undergo a defense of thesis before a committee.

Pre-requisite for submission of thesis:

1. The Supervisor shall submit satisfactory progress report (Continuous Assessment) after every quarter which may be placed before the board.
2. Cleared compulsory preparatory courses.
3. One paper and one review article (Published or accepted for publication in PMDC approved Journal).

Thesis Guidelines:

The thesis should be a piece of work embodying either a discovery of new facts or a fresh interpretation of facts or theories. In either case the work should show the candidate's capacity for critical assessment, interpretation and judgment.

Guidelines	Description
i.	The thesis should embody original observations together with the analysis of the data collected and conclusions drawn. The candidate should make a statement in the summary of the thesis in what respect his/her work has advanced the knowledge in the selected field of specialty. The bibliography of the thesis should contain the list of references which s/he has read first hand and quoted in the body of the thesis. The passages from the books should not be copied in the thesis but these must be clearly indicated as such and their sources shall be given.
ii.	The supervisor will certify the work is that of the candidate himself/herself.

iii.	The thesis must be written on paper 8 1/2"x11" with a margin of 1 1/2" on each side. Only one side of the paper is to be typed. It shall be temporarily bound.
iv.	Thesis must be checked and approved by the supervisor before final submission.
v.	Five copies shall be submitted to the Department of Examination for evaluation.
vi.	The Department of Examination shall submit the thesis to the BASR for appointment of external examiners.

Thesis Evaluation:

Step	Description
a.	The Board of Advanced studies and Research shall appoint two external examiners with scholarly background in relevant fields.
b.	The thesis will be examined separately by both examiners and evaluated on the given guidelines. The examiners shall send the evaluation report to the Department of Examination.
c.	If the thesis is approved, it will be classified as "accepted", "Commended" or "highly commended". Successful candidates whose thesis has been accepted as "Highly commended" will be declared to have passed the examination with distinction.
d.	After the examiners approve the thesis and any corrections or alteration agreed to during the examinations should be incorporated. The thesis should then be bound with the name of the author and title on the cover.
e.	Inadequate thesis: If the thesis is not approved it will be classified by the examiners as : <ol style="list-style-type: none"> 1. Partially inadequate and requires minor changes and no extensive revision is required which should be resubmitted within 6 months. The supervisor may be authorized to check the corrections before submission to the University as "accepted". 2. Inadequate and requires extensive revision which may be resubmitted in the revised form within 6 months. The revised form of the thesis will require approval by the external and internal examiners.

	<p>3. Totally inadequate will be the thesis which is rejected.</p> <p>4. The candidates with inadequacies in thesis of grades (i) and (ii) above will resubmit the thesis within 6 months, failing which they will be considered to have failed in thesis and will submit fresh thesis if they so desire.</p> <p>5. Inadequacy in grade (ii) above mean the candidate will submit a fresh thesis and reappear in the written examination if s/he is interested</p>
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Defence of Thesis:

Step	Description
a.	<p>Eligible (see Pre requisite for submission of thesis).</p> <p>i. Candidates whose thesis have been evaluated and reported as “accepted” by the examiners.</p>
b.	<p>Final Viva Voce Examination</p> <ol style="list-style-type: none"> 1. The BASR shall appoint the committee for the final examination which shall consist of the following five members: <ul style="list-style-type: none"> • Chairman of the examination committee is the supervisor of the candidate • Dean of Postgraduate Studies. • One internal examiner whose work and experience is in a relevant area. • Two external examiners shall be appointed with relevant experience and publications who are not in service of affiliated College/Institute where the student has conducted his/her research. 2. The examination will be held according to the schedule announced by the Department of Examinations 3. The examiners shall report as to whether the candidate has adequate knowledge in the subject matter as well as s/he has defended his/her thesis successfully. 4. If the examiners disagree to the acceptance or rejection of the thesis, a positive concurrence of four out of the five will be required.

Award of Degree:

The Controller of Examinations shall submit the evaluation reports of the examiners and the viva voce examination report to the Board of Advanced Studies and Research, which shall decide whether the M.Phil is awarded.

Structured Training Program

The training program of 4 years will comprise 2 years of training in General Medicine and 2 years of training in subspecialties. This training will be under the supervision of the respective faculty.

Recommended Rotation Schedule for MD in Medicine

Year	3 months	3 months	3 months	3 months
1st Year	Gen. Med.	Gen. Med.	Gen. Med.	Gen. Med.
2nd Year	Specialty	Specialty	Gen. Med.	Specialty
3rd Year	Specialty	Specialty	Gen. Med.	Specialty (Elective)
4th Year	Gen. Med. Research	Gen. Med. Research	Gen. Med. Research	Gen. Med. Research

Guide to the Training Rotation:

- a) General medicine includes ICU / CCU & community clinics.

Compulsory Rotations: Three months each in the following 4 specialities:

- Cardiology
- Neurology
- Intensive Care
- Gastroenterology

Additional Rotations: Three months each in any two of:

- Endocrinology
- Pulmonology
- Dermatology
- Nephrology
- Psychiatry

- b) Any portion of the rotation which can not be completed in the Ziauddin University group of hospitals will be required to be completed in other recognized hospitals.

Candidates are required following preparatory courses. Communication skills epidemiology and statistics, computer skills and basic Sciences. Alternatively they can produce certificates of attendance from reliable institutes.

Competency Levels

The evaluation of competence of a specialist is a varied and complex issue to be judged with certainty. However, evaluation of skills can be taken as a guideline only in the general evaluation process.

In the following tables competence levels have been classified into

Abbreviation	Level
O	Observer status
A	Assistant status
SP	Supervised performance
P	Performance independently

At the end of training, trainee expected to achieve competency level 'P' (independent function) in all areas.

Evaluation and Examinations

The Evaluation process will include :

1. Continuous evaluation through evaluation forms and log books.
2. M.D. qualifying exam at the end of 4 years.
3. Thesis; to be submitted during the final year of training.

Evaluation Forms:

- Three-monthly evaluation will be done by the consultant concerned on evaluation forms provided by the postgraduate office and sent back, duly filled, with counter signature of the training supervisor to whom the trainee is assigned.

Log Books:

- Prescribed log books must be taken from the postgraduate office on submission of a certain fee and maintained regularly by the trainees. These must be submitted to the postgraduate office each year to evaluate the status of training.

M.D. Final Exam:

At the end of 4 years of training the trainees will have to appear in an examination which will comprise an MCQ's paper, an essay type paper and clinical / orals. This will be the final assessment of clinical competence.

At the end of 4 years of training the trainees will have to appear in the oral 'Defence of Thesis' examination. This will include defence of the thesis submitted by the trainee. The trainee will be expected to exhibit adequate background knowledge of the clinical aspects, applied basic sciences etc. pertaining to the subject of the thesis.

If successful, the trainee will be awarded the 'M.D.' degree.

Two Re-sits are allowed with six months apart.

Pre-requisite for submission of Thesis :

- (i) The Supervisor shall submit a satisfactory progress report (continuous Assessment) after every quarter which may be placed before the board.
- (ii) Cleared compulsory preparatory courses.
- (iii) One paper and one review article (Published or accepted for publication in PMDC approved Journal)