

ORDINANCES

&

SYLLABUS

FOR

M.Sc. (Medical Anatomy)

**BABA FARID UNIVERSITY OF HEALTH SCIENCES
FARIDKOT - 151 203**

Baba Farid University of Health Sciences, Faridkot
Faculty of Medical Sciences

**Ordinances for
M.Sc. (Medical Anatomy)**

Course of M.Sc. Medical Anatomy

- 1 The course for the degree of Master of Science in Medical Anatomy shall commence in the month of July every year.
- 2 The course is for full time Post Graduate Students meaning thereby that the Candidate is not doing any job anywhere except he may be working as Research Assistant or Research Technician or is a full time stipendiary in the department concerned.
- 3 The PG students shall be required to participate in the teaching and training of the undergraduate students.

Eligibility for admission

- 1 This course will be open to those candidates who have passed B.Sc. course taking Anatomy, Physiology and Biochemistry as their subjects with 50% or above marks from this University.
- 2 Any other examination recognized by the Board of Management of this University as an equivalent course / examination thereto.
- 3 When any other examination other than B.Sc. (Anatomy, Physiology & Biochemistry) is recognized as an equivalent course for admission to Master of Science in Medical Anatomy, this University will decide the constitution and duration of 'make-up course', if any, required to be undertaken by the candidate before taking up M.Sc. Medical Anatomy course.

Selection of the Candidates

Candidates for M.Sc. Medical Anatomy course shall be selected strictly on the basis of their Academic Merit. For this purpose the cumulative performance of the students in their graduation examination shall form the basis of their merit. The minimum marks being 50% for all the candidates.

Period of Training

The period of training before appearing in the M.Sc. Medical Anatomy examination shall be two completed years including the period of examination.

Medium of Instruction

The medium of Instruction during training and in the examination shall be English.

Methods of Training

The training shall be aimed at emphasising the theoretical and practical aspects of the subject. Seminars, Group Discussions, Journal Clubs and other such activities should be encouraged. Efforts should be made to train the candidate to fit properly into the future role as a Teacher or as a Research worker.

Theory

1 Gross Anatomy

Knowledge of the Gross Anatomy of the entire human body with particular emphasis on Neuro Anatomy is required. Gross Anatomy including its applied aspects is studied throughout the course.

2 Microscopic Anatomy

The candidate is required to learn the Microscopic Anatomy of almost all the tissues of the body. He is supposed to know the various methods commonly used for fixation, embedding, section cutting and staining.

3 Embryology

The candidate is required to know the developmental anatomy of the various parts of the body. An elementary knowledge of the common congenital anomalies is also essential.

4 Radiological Anatomy

A course of normal radiological anatomy. The candidate should also understand principles of newer imaging techniques.

5 Physical Anthropology

Elementary knowledge of the physical anthropology. Determination of age, sex etc. from skeletal remains.

6 Genetics

Elementary knowledge of human genetics.

7 Statistics & Research Methods

Elementary knowledge of medical statistics & research methodologies. Recent advances in Anatomy.

Practical

- 1 A complete dissection of the human body including the brain.
- 2 Common methods used for fixing, embedding, section cutting and staining of the various tissues of the body
Identification of tissues under the microscope.
- 3 Surface anatomy on living subjects
- 4 Reading of normal x-ray films and interpretation of computerised tomography (CT) Scan, Angiography, Sonogram etc.
- 5 Use of common anthropological instruments.
- 6 Embalming of human cadavers for teaching purposes & social/funeral embalming

Examination and Marks

The examinations shall consist of:

- 1 Thesis
- 2 Theory Papers
- 3 Practical and Oral Examination
- 4 Internal Assessment

Thesis

- A Every candidate shall submit a thesis plan to the University within six months from the date of admission.
- B Every candidate shall carry out work on an approved research project under the guidance of a recognized PG Teacher, the results of which shall be written up and submitted in the form of a thesis by the candidate.
- C Thesis shall be submitted to the University six months before the commencement of the theory examinations i.e. by 30th November of the preceding year for May/June examinations.
- D The Vice-Chancellor may allow a candidate to submit the thesis within one month after the date fixed for the purpose with the prescribed late fee.
- E The thesis shall embody the results of the candidate's own research and/or experience and shall contain precise reference to the publications quoted, and must attain a good standard and shall be satisfactory in literary presentation and in other respects and should end with a summary embodying conclusions arrived at by the candidate. The thesis shall be typewritten on one side of the paper (size 11" x 8 ½") with margins of 1½" on each side, bound, indicating on the outside cover its title and the name of the candidate.
- F Thesis shall be examined by minimum of three examiners - one internal and two external examiners who shall not be the examiners for theory and practical examinations.
- G On acceptance of the thesis by two examiners, a candidate shall appear for the final University examination.

Theory Papers

A At the end of the course, the theory examination shall be held sufficiently earlier than the practical examination so that the answer books can be assessed and evaluated before the start of the practical and oral examination.

B There shall be four theory papers of 100 marks each.

Paper I : General Anatomy; Neuro Anatomy, gross anatomy including applied anatomy of the head, neck, brain and upper limb.

Paper II : General Embryology; gross anatomy including applied anatomy of abdomen, thorax and lower limb.

Paper III : Microscopic anatomy and regional (systemic) embryology.

Paper IV : Physical anthropology, medical statistics, medical genetics and recent advances in Anatomy

Practical and Oral Examination

The practical and oral examination shall be conducted and completed in two days.

A Practical examination in the subject of Anatomy shall be conducted to test the knowledge and competence of the candidate for undertaking independent work as a teacher or a research worker in the speciality. He shall also be tested for making valid and relevant observations based on experimental / laboratory studies and his ability to perform such studies as are relevant to his subject.

Marks: There will be 200 marks for the practical examinations.

B The oral examination shall be thorough and aimed at assessing the knowledge and competence about the subject, investigative procedures, and other aspects of the speciality, which form a part of the examinations.

Marks: There will be 100 marks for the oral examinations, out of these marks 50% marks will be added to theory and other 50% marks be added to practical.

Internal Assessment

The internal assessment should be based on the candidates performance in house tests conducted during his stay/training.

Marks:	Theory	50 marks
	Practical	50 marks

Eligibility to appear in the examination

A candidate who fulfils the following requirements during the course of his training shall be eligible to appear in the examination:

- A has successfully completed his stay of two years of training.
- B has attended not less than 80% of the training (theory as well as practical) during each calendar year.
- C has submitted his thesis as per guidelines issued by the University and thesis should have been accepted.
- D has submitted a certificate signed by the Head of Department that he has successfully completed the assignments as detailed in the curriculum during the course of two years to the satisfaction of the HOD.
- E has submitted a certificate signed by the HOD that he possesses a good moral and professional character.
- F a person who has completed his training of two years and has failed in the examination may appear again in a subsequent examination without further training and without submitting a new thesis.

Schedule for submission of examination admission form

The last ~~date~~ by which the examination admission forms along with examination fee of Rs.3000/- to be submitted to the Registrar, shall be as follows:

Examination	without late fee	with late fee of	with late fee of	with late fee of
M.Sc. Medical Anatomy		Rs. 200/-	Rs. 500/-	Rs. 1500/-
May/June	March 1	March 15	March 31	April 15
Nov./Dec.	Sept. 15	Sept. 30	Oct. 15	Oct. 31

Vice-Chancellor may permit acceptance of admission form and fee ten days before the commencement of examination with a late fee of Rs. 2000/-

Number of Examinations

The examination shall be conducted twice a year in May/June and November/December or on such dates as determined by the University from time to time

Board of Examiners

- A The examination shall be conducted by a Board of four examiners on the recommendations of the faculty of medical sciences.
- B All the PG Examiners should be recognized PG Teachers holding recognized PG qualifications in the subject.
- C Out of the four examiners two shall be external examiners who shall be invited from other recognized Universities from outside the state.
- D Under exceptional circumstances, examination may be held with three examiners provided two of them are external and the Medical Council of India is intimated the justification of such action prior to the publication of the result for approval.

Minimum Pass Marks

A candidate shall be declared successful only when his thesis has been accepted and the candidate has obtained a minimum of 50% marks in theory as well as practical and oral examinations separately.

A successful candidate on the basis of theory and practical marks taken together shall be classified as under: -

- Second Class :** A candidate obtaining 50% or more marks but less than 60% marks
- First Class :** A candidate obtaining 60% or more marks
- Distinction :** A candidate obtaining 75% or more marks

Grace Marks

There shall be no provision for grace marks.

Award of Degree

Each successful candidate shall be awarded a degree.
