

Pravara Institute of Medical Sciences (Deemed University)

Loni Bk - 413 736, Tal. Rahata, Dist. Ahmednagar (MS)

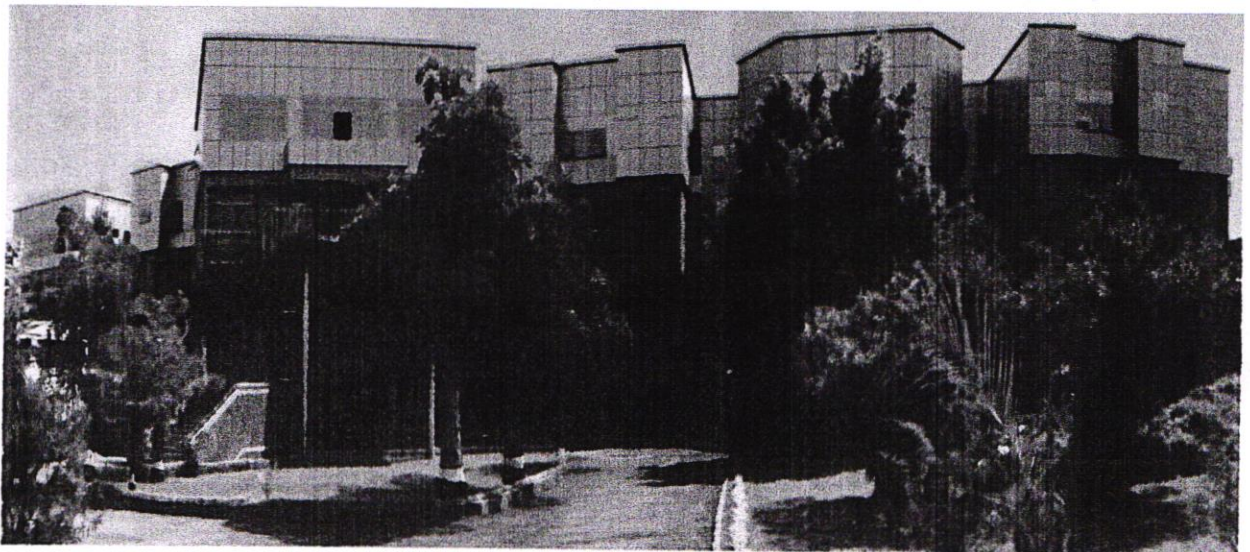
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Syllabus

M.Sc Medical Anatomy

Approved Vide Academic Council Resolution
No. 22 / AC / 2010 dated 26th Mar. 2010.



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Syllabus in Human Anatomy for Postgraduate Teaching-Training leading to M.Sc (Human Anatomy) degree

A. Goal:

Goal of this postgraduate degree course is education of the postgraduate student to become a good teacher and a research scientist. To reach this goal, the postgraduate student in Anatomy should be given a comprehensive exposure to the Anatomy subject, teaching methodologies and research technologies.

B. Learning objectives: To reach this goal, the following objectives must be fulfilled.

I. Cognitive domain: At the end of three years of postgraduate training the student should be able to

- 1) Explain the gross anatomy of the human body and associate the knowledge of structure with the function by horizontal integration/correlation of anatomy with relevant physiology and biochemistry.
- 2) Explain the development of human body and understand the basis of various congenital anomalies.
- 3) Explain the microanatomy including cytology of various structures of the human body and compare the knowledge of microstructure with function and interpret it accordingly.
- 4) Understand the anatomical basis of symptoms and signs of clinical conditions, diagnostic procedures and treatment modalities.
- 5) Explain various aspects of genetics and describe genetic basis of disorders and principles of genetics counseling.
- 6) Explain and interpret radiological anatomy and sectional anatomy of the human body as studied by various imaging techniques.
- 7) Explain the neuroanatomy and interpret the neuroanatomical basis of various clinical conditions.
- 8) Relate anatomy of bones and its development to medicolegal aspects and forensic medicine.
- 9) Comprehend surface projections of various internal structures/organs and living anatomy of the human body.
- 10) Explain the process of embalming.
- 11) Explain the general principles of Bombay Anatomy Act and Transplant of Human Organ Act.
- 12) Understand the basis of disposal of biomedical waste.
- 13) Understand ethical aspects of biomedical research.

II. Psychomotor domain: At the end of the training, the student should be able to

- 1) Dissect and demonstrate various parts of human body.
- 2) Make tissue blocks, perform H&E staining and explain the principles of the following special stains - Periodic acid Schiff, Silver nitrate, Osmic acid, Masson's trichome,