

Zero Module (Foundation Module) MPhil in Anatomy

Duration: 12 weeks

Credit Hours: 0 (Non-credit, mandatory)

Assessment: Attendance + formative assessments+ summative assessment

Overview

This zero module, is designed to orient MPhil Anatomy students to medical college teaching, assisted teaching responsibilities, and academic reinforcement through structured exposure to undergraduate anatomy education. Students will actively participate in the Foundation Module of First Year MBBS Anatomy teaching from 08:00 am to 02:00 pm at the Sheikh Zayed Medical college Lahore.

From 02:00 pm to 05:00 pm, students will engage in reinforcement and skill development sessions at the Anatomy Department of University of Health Sciences Lahore, focusing on models, prosected specimens, osteology, and histological slides.

The module aims to strengthen content mastery, teaching skills, professionalism, and academic confidence.

Expected Learning Outcomes

By the end of the zero module, MPhil Anatomy students will:

1. Demonstrate improved subject mastery in basic anatomy
2. Exhibit effective teaching and communication skills
3. Understand undergraduate learning needs
4. Show professional behavior in academic and clinical settings
5. Be prepared for future academic roles in anatomy

Assessment & Documentation

1. Teaching portfolios
2. Reflective logs
3. Faculty feedback
4. Attendance and participation records

PLAN OF MEDICAL COLLEGE EXPOSURE & UNIVERSITY-BASED REINFORCEMENT

Medical College Exposure: Anatomy Department Sheikh Zayed Medical College Lahore

Days: Monday to Saturday

Timings: 8:00 am-2:00 pm

Friday: 8:00am-12:00 pm

University-based reinforcement: Anatomy Department University of Health Sciences Lahore

Days: Monday to Friday

Timings: 2:00 pm -5:00 pm

Friday: 12:00pm to 5:00 pm

Courses Covered in Anatomy Department Sheikh Zayed Medical College Lahore

Students will be involved with First Year MBBS Foundation Module- Assisted Teaching & Observership and will cover following areas.

General Anatomy:

1. Introduction to General Anatomy
2. Osteology
3. Chondrology
4. Arthrology
5. Integumentary system
6. Myology
7. Angiology
8. Neurology
9. Imaging in Anatomy

General Embryology:

1. Cell division and Chromosomal abnormalities
2. Gametogenesis Spermatogenesis
3. Gametogenesis Oogenesis
4. Female Reproductive Cycle
5. Transportation of gametes
6. Fertilization
7. Contraception, Infertility & assisted reproductive techniques

8. Cleavage, blastocyst formation
9. Implantation Week 2 of Development
10. Utero-Placental circulation
11. Gastrulation
12. Formation of notochord
13. Derivatives of ectoderm & mesoderm
14. Early development of CVS
15. Folding of embryo
16. Germ layer derivatives
17. Embryonic Period
18. Fetal Period
19. Placenta & Fetal Membranes
20. Multiple Pregnancy
21. Prenatal diagnosis and fetal therapy & Teratogenicity

General Histology

1. Introduction to microscopy & Basic staining technique
2. Cell membrane, organelles & Nucleus
3. Epithelium
4. Connective Tissue

Reinforcement in Anatomy Department University of Health Sciences Lahore

1. Hands-on anatomy review
2. Teaching rehearsal and reflection
3. Academic discussions & Journal Clubs
4. Overview of gross anatomy resources
5. Familiarization with Upper limb, lower limb, head & neck, abdomen pelvis & brain models
6. Teaching rehearsal on prosected specimens
7. Familiarization with microscopes and slides handling
8. Introduction to teaching portfolios and reflective writing
9. Revision using models and prosected specimens
10. Microanatomy/ histology practice sessions on slides identification
11. Detailed bone handling sessions
12. Correlation with radiology and clinical relevance
13. Viva preparation and OSPE station design
14. Feedback and reflective writing
15. Portfolio submission

16. Reflective discussion on teaching experience
17. Program evaluation and feedback

Mandatory Workshops During Zero Module

1. Basics of Microscopy
2. Basics of Histo-techniques
3. Basics of PCR

Assessment Strategy (Formative)

- Attendance (mandatory)
- Short quizzes
- Practical spot discussions

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