

Course Program:**Educational Approach**

The course follows a progressive anatomical and functional framework:

Day 1 focuses on the musculoskeletal system and structural organization.

Day 2 focuses on visceral anatomy and neuroanatomy, culminating in the study of the brain.

Each day integrates:

- A one-hour theoretical session providing conceptual foundations
- Hands-on cadaveric dissection as the core educational component
- Continuous clinical correlation and application

DAY 1 — MUSCULOSKELETAL AND STRUCTURAL ANATOMY

From movement to structural integration

08:30 – 09:30 | Theoretical Session (1 hour)

Topic: Functional Musculoskeletal Anatomy

- Principles of movement and biomechanics
- Fascial organization and compartmentalization
- Neurovascular bundles of the limbs
- Clinical relevance: trauma, nerve injury, compartment syndrome

09:30 – 11:00 | Practical Session 1 — Upper Limb

- Shoulder girdle and axilla
- Rotator cuff and deltoid region
- Brachial plexus (infraclavicular portion)
- Arm compartments and major vessels
Focus: functional anatomy of movement and innervation

11:00 – 11:15 | Coffee Break**11:15 – 12:45 | Practical Session 2 — Lower Limb**

- Gluteal region and hip joint
- Femoral triangle and anterior thigh
- Sciatic nerve and posterior compartment
- Knee joint and popliteal fossa
Focus: load transmission and locomotion

12:45 – 13:45 | Lunch Break**13:45 – 15:15 | Practical Session 3 — Spine and Back**

- Superficial and deep back muscles
- Vertebral column and ligaments
- Introductory exposure of the spinal canal
Focus: posture, stability, and surgical access corridors

15:15 – 16:30 | Practical Session 4 — Functional Integration

- Correlation between upper and lower limbs and the spine
- Fascial continuity from superficial to deep planes
- Review of neurovascular pathways
Case-based mini-discussion:
- Polytrauma patient
- Peripheral nerve injury

16:30 – 17:00 | Wrap-Up and Discussion

- Key anatomical takeaways
- Questions and answers with faculty

DAY 2 — VISCERAL AND NEUROANATOMY*From organ systems to brain integration***08:30 – 09:30 | Theoretical Session (1 hour)**

Topic: Visceral and Neuroanatomical Integration

- Organization of thoracic and abdominal cavities
- Vascular and lymphatic systems
- Autonomic nervous system
- Brain organization and functional anatomy

09:30 – 11:00 | Practical Session 1 — Thorax

- Thoracic wall and pleural cavities
- Lungs and mediastinum
- Heart and major vessels
Focus: cardiopulmonary anatomy and emergency pathways

11:00 – 11:15 | Coffee Break**11:15 – 12:45 | Practical Session 2 — Abdomen**

- Abdominal wall and peritoneum
- Liver, stomach, pancreas
- Mesentery and vascular supply
Focus: surgical planes and oncologic anatomy

12:45 – 13:45 | Lunch Break**13:45 – 15:00 | Practical Session 3 — Neck**

- Cervical fascial layers
- Carotid sheath (artery, vein, vagus nerve)
- Thyroid and airway structures
Focus: anatomical transition between body and brain

15:00 – 16:15 | Practical Session 4 — Brain and Cranial Anatomy

- Brain extraction and orientation
- Cerebral lobes and cerebellum
- Brainstem and cranial nerves
Focus: functional neuroanatomy and clinical relevance

16:15 – 17:00 | Final Integration and Discussion

- “From Structure to Function” synthesis
Clinical reasoning session:
- Stroke
- Trauma
- Neurodegeneration