

**Orthopaedics Specialty Committee (OSC) Part 1 Examination
Preparatory Courses (2018):**

Courses	Dates
Course A: (i) Anatomy and Applied Surgical Anatomy (ii) How to prepare for OSCE?	4-5 June 2018 (Mon-Tues)
Course B: Pathology, Biomaterials and Biomechanics, Principles of Surgery	2-3 July 2018 (Mon-Tues)
Course C: Physiology	9-10 July 2018 (Mon-Tues)

Monthly Courses: 4th – 5th June 2018 (Monday-Tuesday):

Course A: Anatomy and Applied Surgical Anatomy

Objective: At the end of the course, students will be able to

- Explain the organization of structures, including the skeletal system, muscles, vessels and nerves of the limbs.
- Explain the organization of body wall, cavities and their respective organs and systems
- Describe the structural characteristics and functions of the various body tissues
- Explain the basic embryological development of the various organs and systems.
- Correlate the anatomical knowledge with relevant clinical conditions.

Venue: Datin Ragayah lecture hall, National Orthopaedic Centre of Excellence in Research and Learning (NOCERAL), Faculty of Medicine, University of Malaya, 50603 Kuala Lumpur, Malaysia

Limited to 40 participants

Tentative Course Content:

Lectures (Day 1): 4th June 2018 (Monday)

Course content	Slot	Assigned person	Time
Upper Limb	1	Prof Dr Normadiyah Kassim (University of Malaya)	8-8.50am
Morning tea break (15 minutes)			8.50 – 9.05am
Lower Limb	2	Prof Dr Normadiyah Kassim	9.05 -10am
Abdomen	3	Dr. Intan Suhana Binti Zulkafli	10-11am
Pelvis	4	Dr. Intan Suhana Binti Zulkafli	11-12pm
Head, neck, back	5	Prof. Dr. Tunku Kamarul Zaman (University of Malaya)	12-1pm
Lunch break			1-2pm
Surgical Anatomy: Part 1 Pertaining to the orthopaedic discipline, namely: - nerve entrapment/injuries of upper limbs - including brachial plexus - surgical approaches to the hip, knee and ankle - anatomy of vascular anastomosis in trauma - anatomy of lower limbs in relation to ext fix - anatomy of surgical skin incisions - etc How to prepare for OSCE?	6	Asst Prof Dr Ahmad Fadzli Sulong (International Islamic University Malaysia)	2-4pm

Lectures (Day 2): 5th June 2018 (Tuesday)

Course content	Slot	Assigned person	Time
Thorax	7	Prof Dr Normadiyah Kassim	8-9am
Morning tea break (15 minutes)			9-9.15am
Group discussion using anatomical models: Part 1	8	Prof Dr Normadiyah Kassim	9.15-10.15am
Group discussion using anatomical models: Part 2	9	Dr. Intan Suhana Binti Zulkafli	10.15–11.15am
Basic Embryology of Limbs & Spine;	10	Assoc. Prof. Dr. Lakshmi Selvaratnam (Monash University Malaysia)	11.15-12.15
Histology of Musculoskeletal Tissues	11	Assoc. Prof. Dr. Lakshmi Selvaratnam	12.15-1.15pm
Lunch break			1.15–2pm
Surgical Anatomy: Part 2 -Surface anatomy -Anatomy of regional anesthesia -etc	12	Prof. Dr. Tunku Kamarul Zaman (University of Malaya)	2-4pm

Syllabus for Applied Anatomy

1. Upper Limb

- Bones, joints, muscles, vessels, lymphatic drainage and nerves
- Hand, forearm, arm, shoulder, pectoral girdle, breast, axillary and scapular region
- The anatomy of extensile exposures of the bones and joints of the upper limb
- The anatomy related to surgical management of breast carcinoma
- The anatomy of brachial plexus injuries and its clinical signs
- The anatomy of the rotator cuff injuries
- The anatomy of entrapment neuropathies

2. Lower Limb

- Bones, joints, muscles, vessels, lymphatic drainage and nerves
- Foot, lower leg, thigh, gluteal region
- The anatomy of surgical approaches to the hip joint, knee joint and ankle joint
- The anatomy of vascular anastomosis of the lower limb for trauma and atherosclerosis
- The anatomy of the lower limb as it relates to external fixation

- The anatomy of the knee injuries

3. Head and Neck

- Scalp, skull, cerebrum, cerebellum, mid brain, brain stem
- Face, eyes, ears, nose
- Mouth, pharynx, larynx
- Neck
- Bones, joints, muscles, vessels, nerves and cranial nerves.
- Anatomy related to skull fractures and complications
- Anatomy of cerebral circulation
- Anatomy of facial palsies
- Anatomy of ocular palsies
- Anatomy of facial fractures and complications
- Anatomy of the larynx as it related to deglutition, respiration, and intubations
- Anatomy of thyroidectomy and complications
- Anatomy of the movement of the neck
- Anatomy as it relates to cervical spine injuries
- Anatomy of lymphatic drainage of head and neck malignancies

4. Thorax

- Chest wall, ribs, diaphragm
- Airways and lungs
- Heart and great vessels
- Mediastinum
- Anatomy of thoracic surgical approaches
- Anatomy of congenital malformations
- The circulatory anatomy of the heart and lungs related to bypass surgery

5. Abdomen

- Abdominal wall and peritoneum
- Liver, spleen, intestines, pancreas, kidneys and ureters
- Aorta and vessels
- Anatomy of inguinal ligament and hernia repair
- Anatomy of common surgical procedures: cholecystectomy, gastrectomy, appendectomy, colectomy, bowel resection, nephrectomy.
- Anatomy of congenital malformations
- Abdominal vascular anatomy

6. Pelvis

- Bones, joints, muscle nerves, vessels
- Urinary and reproductive organs
- Congenital malformations
- Anatomy of urolithiasis and surgical treatment

7. Spine

- Vertebral column
- Spinal cord and nerves
- Anatomy of traumatic paraplegia

8. Tissues and Structures

- Skin, mucous membrane, subcutaneous tissue, deep fascia
- Muscles, tendons, ligaments, joints, cartilage

- Peripheral nerves, vessels and lymphatic
- Anatomy of common pedicle and free flaps
- Anatomy of surgical skin incisions

9. Surface Anatomy

- Basic Embryology of limbs and spine Notochord, mesoderm, endoderm, limb formation, totipotential, pluripotential.
 - Comparative Anatomy of the Child - Epiphyseal plates, proportions, growth, osteology of the child

10. Anatomy of Regional Anaesthesia

- Ankle block, digital block, wrist block, flexor tendon block, axillary block, femoral n. block