

SUBJECT DESCRIPTION FORM

SUBJECT CODE: HTI3141

SUBJECT TITLE: Orthopaedics, Traumatology and Rehabilitation

CREDITS: 3

PRE-REQUISITES: ABCT225 Human Physiology
HSS201 Generic Anatomy

CO-REQUISITES: HTI3515 Medical Science I

RESPONSIBLE DEPARTMENT: Department of Health Technology & Informatics

RESPONSIBLE MEMBER OF THE ACADEMIC STAFF:

Dr. M. S. WONG / Dr. Aaron LEUNG

CONTACT HOURS:

Lecture	28 hours
Tutorial	<u>14 hours</u>
Total Contact	42 hours

OBJECTIVES AND LEARNING OUTCOMES

The students will be able:

1. to understand, describe, discuss and explain the common medical conditions related to orthopaedics and traumatology,
2. to understand, describe, discuss and explain the related rehabilitation process.

SYLLABUS:

1. Congenital orthopaedics disorders (absence or malformation of bony parts for limbs & spine).
2. Amputation (causes, pre-op and post-op treatments, levels of amputation, operative techniques, stump types and problems).
3. Osteopathy (osteopetrosis, osteoporosis, bone tumor).
4. Arthropathy (instability, subluxation, dislocation, contracture, ankylosis, osteoarthritis, rheumatology).
5. Neuromuscular disorders (cerebral palsy, poliomyelitis, cerebral vascular accidents, muscular dystrophies).
6. Traumatic Injuries (bone fractures, injuries in peripheral joints, head injuries, spine cord injuries, common sports injuries).
7. Regional Deformities (spine, upper and lower limbs).
8. Management of pressure sore and special seating.
9. Selection and prescription of mobility aids.
10. Technique for regaining muscle strength and physiological range of joint motion.
11. Technique for training of co-ordination and activities of daily living.
12. Imaging techniques and interpretations (X-rays, CT, Ultrasonics & MRI).

TEACHING-LEARNING METHODS:

Interactive lectures is complementary with tutorial sessions. There will be individual and group assignments. Written reports and oral presentations of case studies will be required.

ASSESSMENT:

Course work	50%
Final Examination	50%

The course work includes written and oral presentations which require students to integrate their learned knowledge to work on case study assignment. A final examination will be used to establish that the student has understood and can integrate the factual materials to describe and discuss orthopaedic conditions and the related rehabilitation processes.

In order to pass the subject, a student must achieve at least grade D in **BOTH** coursework and examination.

REFERENCE MATERIALS:

1. Cyriax J. Textbook of Orthopaedic Medicine. Volume One Diagnosis of Soft Tissue Lesions, 12th edition. Bailliere Tindall, 1982.
2. Adams JC and Hamblen DL. , Outline of Orthopaedics, 10th edition. Churchill Livingstone, 1992.
3. Adams JC and Hamblen DL. Outline of Fractures, Churchill Livingstone, 1987.
4. Brotzman SB. Clinical Orthopaedic Rehabilitation. Mosby, 1996.
5. O'Sullivan SB and Schmitz TJ. Physical Rehabilitation: Assessment and Treatment, 4th edition. FA DavisCompany, 2001.
6. Skinner HB. Current Diagnosis and Treatment in Orthopaedics. Appleton and Lange, 1995.
7. Cipriano JJ. Photographic Manual of Regional Orthopaedic and Neurological Tests, 3rd edition. Williams and Wilkins, 1997.
8. Brukner P and Khan K. Clinical Sports Medicine, 2nd edition. McGraw-Hill, 2001.
9. Lusardi MM and Nielsen CC. Orthotics and Prosthetics in Rehabilitation. Butterworth-Heinemann, 2000.