**KENYA MEDICAL TRAINING COLLEGE**

**Faculty of Clinical Sciences**

**Department of Orthopaedics & Trauma Medicine**

**COURSE OUTLINE**

**For Certificate**

**In**

**Orthopaedics & Trauma Medicine**

**2018**



**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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| Date: |  |

**Course Outline for Anatomy I**

**Code:** **ANT 106**

**Hours: 60**

**Credit: 6**

**Competence**

Enable the learner apply principles of Anatomy in relation to diagnosis of orthopaedic and trauma patients.

**Outcomes**

1. Demonstrate understanding of terminologies and historical background of anatomy
2. Explain the organization of human body
3. Explain various body tissues
4. Explain the structural organization of the skin and body cavities
5. Demonstrate the understanding of anatomical organization of the lower limb

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | **Introduction to anatomy** |
| Week 2: |  |  | Introduction to anatomy |
| Week 3 |  |  | Levels of body organization; |
| Week 4 |  |  | Levels of body organization; |
| Week 5: |  |  | Levels of body organization; |
| Week 6: |  |  | Body tissues |
| Week 7: |  |  | Body tissues |
| Week 8: |  |  | Body tissues |
| Week 9: |  |  | **CATs,** |
| Week 10: |  |  | Lower limb |
| Week 11 |  |  | Lower limb |
| Week 12: |  |  | Lower limb |
| Week 13: |  |  | Lower limb |
| Week 14: |  |  | Lower limb |
| Week 15: |  |  | Lower limb |
| Week 16: |  |  | Lower limb |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to anatomy;** definition of anatomy, historical background, terminologies, anatomical position, classification of human being, methods of study**. Levels of body organization;** chemical level, cell and cell structures, cell division. **Body tissues;** classification of body tissues, muscle, connective tissue (bone and bone development), nerve tissue. **Skin and body cavity;** Skin as organ system, body cavities. **Lower limb;** bones of the lower extremities and pelvis, muscles of the lower extremities and pelvis, nerves, joints of lower extremities and pelvis, blood supply to lower extremities and pelvis, arches of the foot

**Teaching Strategies**

Interactive/modified lectures, small group demonstrations, video interactions and small group discussions

**Teaching/Learning Resources**

Laptop, computers, projectors, whiteboards, maker pens, lesson plans, recommended textbooks, models and PowerPoint slides

**Assessment Strategies**

*Formative:* CAT(s) accounts for 40% of the total marks

*Summative:* End of Semester Examinations accounts for 60% of the total marks

**References/Further Readings**

Romanes, J. (2010). *Cunningham’s Manual of Practical anatomy Vol.1, 2 and 3*, London:

Oxford University Press.

Waugh, A. and Grant, A. (2011). *Ross and Wilson Foundation of Anatomy and Physiology in*

*health and illness* 11th ed., Edinburgh: Churchill Livingstone.

Drake, R. L., Vogl, A. W. and Adam, M. W. M. (2015). *Gray’s Anatomy for Students*, 3rd

ed., London: Churchill Livingstone Elsevier

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

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**Lecturer’s Details**

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| Date: |  |

**Course Outline for Physiology I**

**Code:** **PHY 103**

**Hours: 30**

**Credit: 3**

**Competence**

Enable the learner to diagnose the orthopaedic and trauma conditions and manage them non-operatively.

**Outcomes**

1. Demonstrate understanding of the cellular organelles functioning
2. Relate the role of body fluids compartment in regulating body electrolytes
3. Demonstrate understanding of functioning of the cardiovascular system
4. Explain functions of musculo-skeletal system
5. Relate functions of nervous system with other body systems
6. Explain the role of the integumentary system in the body

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to physiology; |
| Week 2: |  |  | Introduction to physiology |
| Week 3 |  |  | Introduction to physiology |
| Week 4 |  |  | Body fluids |
| Week 5: |  |  | Body fluids |
| Week 6: |  |  | Body fluids |
| Week 7: |  |  | Cardiovascular system |
| Week 8: |  |  | Cardiovascular system |
| Week 9: |  |  | **CATs,** |
| Week 10: |  |  | Musculo-skeletal system; |
| Week 11 |  |  | Musculo-skeletal system |
| Week 12: |  |  | Nervous system |
| Week 13: |  |  | Nervous system |
| Week 14: |  |  | Nervous system |
| Week 15: |  |  | Integumentary system |
| Week 16: |  |  | Integumentary system |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to physiology;** definition, cell types, cell organelles function, transport across cell membrane, homeostasis, cell metabolism. **Body fluids;** compartments, fluid balance, electrolytes, regulation, acid/base balance. **Cardiovascular;** the heart, cardiac cycle, conduction, heart conditions; blood vessels, blood pressure and control. **Musculo-skeletal system**; definition, types of muscles, functions of the muscles, neuro-muscular junction,contractile process. **Nervous system**; introduction to nervous system, division, the brain, the neurons, impulses, action potential, synapse, functions of the central nervous system, peripheral nervous system, autonomic nervous system. **Integumentary system**; the skin, the hair, the nails, the glands, subcutaneous tissue.

**Teaching Strategies**

Interactive /modified lectures, small group demonstrations, small group discussions

**Teaching/Learning Resources**

Flip chart, marker pens, masking tape, note books and pens, LCD projector, laptops, models, interactive videos.

**Assessment Strategies**

*Formative:* CAT(s) accounts for 40% of the total marks

*Summative:* End of Semester Examinations accounts for 60% of the total marks

**References/Further Readings**

Barret, K. E. et al. (2016). Ganong’s review of medical physiology 25th ed., New Delhi:

McGraw Hill Education

Hall, J. E. (2011). Guyton and Hall textbook of medical physiology 12th ed., Philadelphia:

Saunders Elsevier

Sembulingam, K. and Sembulingam, P. (2012). *Essentials of Human Physiology* 6th Ed.

New Delhi: Jaypee Brothers medical publishers

Waugh, A and Grant, A. (2011). *Ross and Wilson Foundation of Anatomy and*

*Physiology in health and illness* 11th ed., Edinburgh: Churchill Livingstone

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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| Date: |  |

**Course Outline for Pathology I**

**Code:** **PAT 103**

**Hours: 30**

**Credit: 3**

**Competence**

The module is designed to enable the learner apply principles of Pathology in relation to the management of orthopaedic and trauma patients.

**Outcomes**

1. Demonstrate understanding of disease mechanism
2. Apply concepts of immunology and inflammation in casting and traction.
3. Relate pathological changes in various systems to clinical presentation
4. Demonstrate understanding of various infectious agents causing pathology in humans

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to defence mechanism. |
| Week 2: |  |  | Introduction to defence mechanism. |
| Week 3 |  |  | Immunology |
| Week 4 |  |  | Immunology |
| Week 5: |  |  | Immunology |
| Week 6: |  |  | Immunology |
| Week 7: |  |  | Immunology |
| Week 8: |  |  | Introduction to general pathology |
| Week 9: |  |  | **CATs,** |
| Week 10: |  |  | Introduction to general pathology |
| Week 11 |  |  | Introduction to general pathology |
| Week 12: |  |  | Introduction to general pathology |
| Week 13: |  |  | Infections and infestations |
| Week 14: |  |  | Infections and infestations |
| Week 15: |  |  | Infections and infestations |
| Week 16: |  |  | Infections and infestations |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction;** pathology, microbiology, parasitology, disease mechanism-genetic, **Immunology,** cell injury, cell death, necrosis, inflammation, types of immunity-acquired/innate, active/passive, antigen-antibody reaction, immune cells, auto immunity, immunodeficiency. **Introduction to general pathology**: Cell Injury and Inflammation, cardiovascular, respiratory, musculoskeletal, and neurological. **Infections and infestations**: bacteriology-classifications of bacteria and common bacterial diseases, basic virology – classification of common viruses and common viral diseases, basic mycology-classification of fungi and common fungi diseases, basic parasitology-classification of sprotozoa, protozoa, common helmithes. Infection prevention and control-sources of microorganisms, hand washing, decontamination, disinfection, sterilization, antisepsis/asepsis, management of medical waste.

**Teaching Strategies**

Interactive lectures, small group demonstrations, small group discussions**,** tutorial interactions

**Teaching/Learning Resources**

Whiteboard, LCDs, Flip Charts, Laptops, Blackboard models, video tapes, marker pens, PowerPoint presentations.

**Assessment(s)**

*Formative:* CAT(s) accounts for 40% of the total marks

*Summative:* End of Semester Examinations accounts for 60% of the total marks

**References/Further Readings**

Mohan, H. (2010). *Textbook of Pathology with quick MCQs* 6th Edition. London. Jaypee

Brothers Medical Publishers (P) Ltd.

Reid, R., Roberts, F. and Macduff, E. (2011). *Pathology Illustrated* 7th Ed., Edinburgh:

ChurchillLivingstone

Bhatia, R. (2008). *Essentials of Microbiology.* 24th Ed. New Delhi. Jaypee Brothers.

*Arora, R. and Arora, B. (2012). Medical Parasitology. 3rd Edition. New Delhi. CBS*

*publishers and Distributors PVT. Ltd*

Cross S. S. and Underwood J.C.E (2004). *General and systematic pathology* 5th Ed.,

Edinburgh Churchill livingstone

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

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**Lecturer’s Details**

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| Date: |  |

**Course Outline for Material Science**

**Code:** **MSC 103**

**Hours: 30**

**Credit: 3**

**Competence**

Enable the learner apply principles of materials science in casting and Traction.

**Outcomes**

1. Classify materials used in management of orthopaedic and trauma conditions.
2. Demonstrate understanding of properties of materials used in management of orthopaedic and trauma patient.
3. Identify tools used in orthopaedic and trauma management
4. Identify equipment used in management of orthopaedic and trauma condition

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to Material Science. |
| Week 2: |  |  | Materials |
| Week 3 |  |  | Materials |
| Week 4 |  |  | Materials |
| Week 5: |  |  | Materials |
| Week 6: |  |  | Materials |
| Week 7: |  |  | Materials |
| Week 8: |  |  | Materials |
| Week 9: |  |  | **CATs,** |
| Week 10: |  |  | Tools |
| Week 11 |  |  | Tools |
| Week 12: |  |  | Tools |
| Week 13: |  |  | Tools |
| Week 14: |  |  | Tools |
| Week 15: |  |  | Equipment |
| Week 16: |  |  | Equipment |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to material science;** historical background**,** definitions of terms, **Materials;** definition, properties, Plaster of Paris, fabrics, fibre glass, fasteners and adhesives, rubber and plastics, wood, metals, metal alloys, stainless steels **Tools**; plaster sheer, scissors, oscillating machine, plaster spreader, plaster saw, introducer, hammer, **Equipment**–Orthopaedic bed, splints, walking aids,

**Teaching Strategies**

Interactive lecture, demonstration, group discussion, video conferencing, Role play

**Teaching/Learning Resources**

LCDs, Flip Charts, Whiteboard, laptops, text books plaster shears, oscillating machine, spreader, Thomas splint, orthopaedic bed,

**Assessment Strategies**

*Formative:* CAT(s) accounts for 40% of the total marks

*Summative:* End of Semester Examinations accounts for 60% of the total marks

**References/Further Readings**

Heever, J. (2008). *Material Technology Student’s Book*. Northcliff: Macmillan and Troupant

Pub. (Pty) Ltd

Lawrence, H. (1973). *A Textbook of Material Technology*. New Delhi: Vlack Addison wesly

William, D. (2007). *Material Science and Engineering*. 7th Edition. New York. Quebercor

Mittemeijer, J. (2011). *Fundamental of Material Science.* University of Stuttgart. German

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Lecturer’s Details**

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| Date: |  |

**Course Outline for Behavioural Sciences**

**Code:** **BHS 103**

**Hours: 30**

**Credit: 3**

**Competence**

Enable the learner to provide psychological support at the healthcare facility and community level

**Outcomes**

1. Relate cultural effects on health and sickness behaviour
2. Demonstrate understanding of how social factors influence health and healthcare delivery
3. Apply principles of psychology in management of orthopaedic and trauma conditions

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to medical Anthropology |
| Week 2: |  |  | Introduction to medical Anthropology |
| Week 3 |  |  | Introduction to medical Anthropology |
| Week 4 |  |  | Introduction to medical Anthropology |
| Week 5: |  |  | Introduction to medical Anthropology |
| Week 6: |  |  | Introduction to medical sociology |
| Week 7: |  |  | Introduction to medical sociology |
| Week 8: |  |  | Introduction to medical sociology |
| Week 9: |  |  | **CATs,** |
| Week 10: |  |  | Introduction to medical sociology |
| Week 11 |  |  | Introduction to medical sociology |
| Week 12: |  |  | Introduction to medical psychology |
| Week 13: |  |  | Introduction to medical psychology |
| Week 14: |  |  | Introduction to medical psychology |
| Week 15: |  |  | Introduction to medical psychology |
| Week 16: |  |  | Introduction to medical psychology |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to medical arthropology**; definitions, background and branches, importance, principles and concepts, culture and cultural effects on health, illness and illness behaviour, hospitalization and hospitalization effects. **Introduction** **to** **medical sociology**; background, branches, social change, group dynamics, process of instituting social change, basic social institutions. **Introduction** **to** **medical psychology:** historical background, foundations and goals of psychology, schools of thought, branches, relevance of psychology in healthcare practice, human growth and development, learning, memory, motivation and emotions, personality

**Teaching Strategies**

Interactive lecturers**,** Role plays**, s**mall group discussions

**Teaching/Learning Resources**

Laptops**,** LCD Projector**,** Marker pens**,** White board**,** Flip chart

**Assessment Strategies**

*Formative:* CAT(s) accounts for 40% of the total marks

*Summative:* End of Semester Examinations accounts for 60% of the total marks

**References/Further Readings**

Alder, B. et al (2014). *Psychology and sociology applied to medicine* 3rd ed., Churchill

livingstone

Bradby, H. (2009). *Medical Sociology and Introduction* 1ST ed.,London: Sage publication

Ltd

Chance, P. (2013). *Learning and Behaviour.* Belmont, CA, Wadsworth: Cengage Learning.

Davey, G. (2008). *Complete psychology*, 2nd ed. London, UK Hodder & Stoughton

Fadem, B. (2005). *Behavioural science.* 6th Ed. Wolters Kluwer: Lippincott Williams &

Wilkins

Hakala, C. (2014). *AP Psychology.* 1st ed., New York: Kaplan publishing Inc.

Joralemon, D. (2016). *Exploring medical anthropology.* 3rd ed., New York: Routledge

Kasschau, R.A (2003). *Understanding Psychology*. Glencoe: McGraw - Hill

Sdorow, L. M. (2005). *Psychology*. 6thed, Belmont, CA, Wadsworth: Cengage Learning.

Santrock, J.W. (2009). *Lifespan Development* 12th Ed., Boston: McGraw Higher

Education

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Lecturer’s Details**

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| Date: |  |  |

**Course Outline for STI/HIV/AIDS**

**Code: SHA 103**

**Hours: 30**

**Credit: 3**

**Competence**

Enable the learner prevent the spread of STI/HIV/AIDS at individual and community level.

**Outcomes**

1. Relate cultural effects on health and sickness behaviour
2. Demonstrate understanding of how social factors influence health and healthcare delivery
3. Apply principles of psychology in management of orthopaedic and trauma conditions

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to HIV&AIDS |
| Week 2: |  |  | Introduction to HIV&AIDS  Introduction to HIV&AIDS |
| Week 3 |  |  | Introduction to HIV&AIDS |
| Week 4 |  |  | Introduction to HIV&AIDS |
| Week 5: |  |  | Introduction to HIV&AIDS |
| Week 6: |  |  | Introduction to HIV&AIDS |
| Week 7: |  |  | Introduction to STI |
| Week 8: |  |  | Introduction to STI |
| Week 9: |  |  | **CATs** |
| Week 10: |  |  | Introduction to STI |
| Week 11 |  |  | Introduction to STI |
| Week 12: |  |  | Introduction to Public health in STI/HIV&AIDS |
| Week 13: |  |  | Introduction to Public health in STI/HIV&AIDS |
| Week 14: |  |  | Introduction to Public health in STI/HIV&AIDS |
| Week 15: |  |  | Introduction to Public health in STI/HIV&AIDS |
| Week 16: |  |  | Introduction to Public health in STI/HIV&AIDS |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | End Of Semester Examinations |

**Module Content**

**Introduction to HIV&AIDS;** historical background, classification of STI, infection, transmission and prevention,signs and symptoms, WHO staging, management. **Introduction to STI;** urethral and vaginal infections**,** ophthalmianeonatorum, syphilis. **Introduction to** **Public health in STI/HIV&AIDS;** Transmission and safer sex practice, use of condoms, access, care and disposal, home based care of persons with STI/HIV/AIDS, referral services, participatory dialogue, behavioural change and counselling skills

**Teaching Strategies**

Lecture, demonstration, group discussion, role play, eLearning

**Teaching/Learning Resources**

Laptop, computers, projectors, flip charts, whiteboards, maker pens and recommended textbooks, internet

**Assessment Strategies**

*Formative*: CAT(s) accounts for 40% of the total marks

*Summative:* End of Semester Examinations accounts for 60% of the total marks

**References/Further Readings**

Guideline for antiretroviral Therapy in Kenya (2016). *Reprint National Aids and STI Control Programme* (NASCOP)

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Lecturer’s Details**

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| Qualifications: |  |
| Phone Number: |  |
| Email address: |  |
| Signature: |  |
| Date: |  |

**Course Outline for community Health**

**Code:** **CMH 203**

**Hours: 30**

**Credit: 3**

**Competence**

Enable the learner demonstrate understanding of factors influencing management of orthopaedic and trauma conditions in the community

**Outcomes**

1. Demonstrate understanding of the role of community in the management of orthopaedic and trauma conditions
2. Demonstrate understanding of the organization of the health care system in the country
3. Carry out health education to the community in the management of orthopaedic and trauma conditions
4. Demonstrate understanding of the medical legal issues pertaining carrying out management of orthopaedic and trauma conditions

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to community health, |
| Week 2: |  |  | Introduction to community health |
| Week 3 |  |  | Primary health care |
| Week 4 |  |  | Primary health care |
| Week 5: |  |  | Primary health care |
| Week 6: |  |  | Primary health care |
| Week 7: |  |  | Primary health care |
| Week 8: |  |  | Primary health care |
| Week 9: |  |  | **CATs** |
| Week 10: |  |  | Health education |
| Week 11 |  |  | Health education |
| Week 12: |  |  | Health education |
| Week 13: |  |  | Health education |
| Week 14: |  |  | National health policies and services |
| Week 15: |  |  | National health policies and services |
| Week 16: |  |  | National health policies and services |
| Week 17: |  |  | Study Leave |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to community health;** definitions, basic concepts, principles, organization of health care. **Primary health care;** definitions, MOH organizational structure of PHC and CBR, goal, MDGs and Vision 2030. **Health education;** teaching skills/methods, nutrition, community sensitization, community health strategies, health needs identification, community mobilization. **National health policies and services;** professional bodies/Associations, regulation of medical professions, the constitution and medical law, consent, medical negligence.

**Teaching Strategies**

Lectures, demonstration, group discussions, individual assignments and case studies

**Teaching/Learning Resources**

Laptop computer, projector, white board and whiteboard markers

**Assessment Strategies**

*Formative*: CAT(s) accounts for 40% of the total marks

*Summative:* End of Semester Examinations accounts for 60% of the total marks

**References/Further Readings**

World Health Organization, (2010). Community Based Rehabilitation; CBR guidelines. Malta;

WHO Press

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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**Course Outline for Trauma Life Support**

**Code**: **TLS 103**

**Hours**: **30**

**Credit**: **3**

**Competence**

Enable the learner provide immediate life support care to trauma patient

**Outcomes**

1. Carry out trauma triage.
2. Carry out primary survey to injured patient
3. Perform quality cardiopulmonary resuscitation (CPR)
4. Carry out First Aid to patients

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Triage |
| Week 2: |  |  | Triage |
| Week 3 |  |  | Triage |
| Week 4 |  |  | Triage |
| Week 5: |  |  | Primary survey |
| Week 6: |  |  | Primary survey |
| Week 7: |  |  | Primary survey |
| Week 8: |  |  | Primary survey |
| Week 9: |  |  | **CATs,** |
| Week 10: |  |  | Cardiopulmonary resuscitation |
| Week 11 |  |  | Cardiopulmonary resuscitation |
| Week 12: |  |  | Cardiopulmonary resuscitation |
| Week 13: |  |  | Cardiopulmonary resuscitation |
| Week 14: |  |  | First Aid |
| Week 15: |  |  | First Aid |
| Week 16: |  |  | First Aid |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Triage;** triage protocol. **Primary survey;** ABC protocol, BTLS, Shock management of airway,**Cardiopulmonary resuscitation;** quality compression, airway aids (Gaudel airway, face mask, nasal prongs, endotracheal tubes). Restriction of the Cervical Spine secondary survey. Head to toe examination **First Aid;** recovery position, bandaging and dressing, choking, poisoning (acids, alkalines, alcohols, organophsphate, medicines) stings, snake bites, burns, near drowning, foreign bodies (nose, throat, ears, eyes)Arrange for inter hospital or intra hospital transfer**,** Emphasize the“golden hour” concept and the urgency necessary for successful treatment of injured patients.

**Teaching Strategies**

**I**nteractive lectures, small group demonstrations, Role play, video shows, active skills practice

**Training/Learning Resources**

Flip chart, marker pens, masking tape, note books and pens, LCD projector, laptops, videos, models/manikins, airway, face masks, ambu bags, automated external defibrator (AED).

**Assessment strategies**

*Formative assessment*: Continuous Assessment Tests (CATs), Random Assessments Tests (RATS), Assignments, Quizzes, OSCE, mini CEX accounts for 40% of the total marks

*Summative assessment:* End of semester examination accounts for 60% of the total marks

**References/Further Readings**

Annals of trauma life support Howard A wermanetel.

America Heart Foundation manuals

The trauma manual Andrew B. 4th edition

Srbs manual of surgery

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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**Course Outline for Clinical skills**

**Code:** **CLS 103**

**Hours: 30**

**Credit: 3**

**Competence**

Enable the learner evaluate patients in a clinical setup.

**Outcomes**

1. Communicate effectively with patients
2. Take a comprehensive history
3. Perform a complete physical examination
4. Relate relevant radiological findings

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Communication skills |
| Week 2: |  |  | Communication skills |
| Week 3 |  |  | Communication skills |
| Week 4 |  |  | Communication skills |
| Week 5: |  |  | History taking |
| Week 6: |  |  | History taking |
| Week 7: |  |  | History taking |
| Week 8: |  |  | History taking |
| Week 9: |  |  | **CAT** |
| Week 10: |  |  | Physical Examination |
| Week 11 |  |  | Physical Examination |
| Week 12: |  |  | Physical Examination |
| Week 13: |  |  | Physical Examination |
| Week 14: |  |  | Basic investigations |
| Week 15: |  |  | Basic investigations |
| Week 16: |  |  | Basic investigations |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Communication skills;** communication process & observing: choice of words (ways of asking question- open ended, closed question, paraphrases’ summarizing, probing) receiving and giving feedback: expressing feeling (verbal & non-verbal communication) **History taking;** chief complains, history of the presenting illness, past surgical & medical history, personal social economic history. **Physical Examination;** General condition appearance (posture/built/nutritional status, hygiene grooming ,obvious abnormality Jaundice, Cyanosis, Edema, Dehydration, Lymphadenopathy, pallor ,vital signs, local examination, Muscle, bulk, power, tone, measurement & movement. **Basic investigations;** laboratory investigations, types of diagnostic image, identification,

MODULE

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**Teaching Strategies**

Lectures, demonstration, group discussions, individual assignments and case studies

**Learning/Teaching Resources**

Laptop computer, projector, white board and whiteboard markers

**Assessment(s)**

*Formative:* CAT(s) accounts for 40% of the total marks

*Summative;* End of Semester Examinations accounts for 60% of the total marks

**References/Further Readings**

KMTC, *Clinical Manual for Skills lab*

Glynn M., Drake W. M. (2017). *Hutchison's Clinical Methods* (24th Edition).An Integrated

Approach to Clinical Practice. London: Elsevier

Roper T. A. (2005). *Clinical Skills* (2nd Ed).

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**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

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**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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**Course Outline for Anatomy II**

**Code**: **ANT 206**

**Hours**: **60**

**Credit**: **6**

**Competence**

Enable the learner to apply concept of anatomy in diagnosis of orthopaedic and trauma medicine.

**Outcomes**

1. Demonstrate understanding of anatomical organization of the upper limb
2. Identify structures within the chest
3. Describe structures within the abdominal cavity
4. Demonstrate understanding of anatomical organization of the head and neck

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Upper limb, |
| Week 2: |  |  | Upper limb |
| Week 3 |  |  | Upper limb |
| Week 4 |  |  | Upper limb |
| Week 5: |  |  | Upper limb  Chest |
| Week 6: |  |  | Chest |
| Week 7: |  |  | Chest |
| Week 8: |  |  | Abdomen |
| Week 9: |  |  | **CATs** |
| Week 10: |  |  | Abdomen |
| Week 11 |  |  | Abdomen  Head and Neck |
| Week 12: |  |  | Head and Neck |
| Week 13: |  |  | Head and Neck |
| Week 14: |  |  | Head and Neck |
| Week 15: |  |  | Head and Neck |
| Week 16: |  |  | Head and Neck |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Upper limb**; Bones of the upper extremities and shoulder girdle, muscles of the upper extremities and shoulder, nerves, joints of upper limb. Blood supply to upper limb. **Chest**; thoracic cage, intercostal muscles, mediastinum, pleura. **Abdomen;** anterior abdominal wall, peritoneum, abdominal viscera **Head and Neck;** skull, muscles of the head, scalp, muscles of the neck, cranial cavity, brain, special senses organs

**Teaching Strategies**

Interactive lecture, small group demonstration, small group discussion

**Teaching/Learning Resources**

Laptop, computers, projectors, whiteboards, maker pens, lesson plans and recommended textbooks

**Assessment strategies**

*Formative:* Continuous assessment tests accounts for 40% of the total marks.

*Summative*: End of semester examination accounts for 60% total marks.

**References/Further Readings**

Cunningham’s *Manual of Practical anatomy* Vol.1, 2 and 3 :ROMANES G. J. – Oxford

University Press

Ross and Wilson, (2011). *Anatomy and Physiology*. 11th edition, Churchill Livingstone

Edinburgh

Drake, R. L., Vogl, A. W., Mitchelladam W. M. (2015). *Gray’s Anatomy for Students.* 3rd

edition, Churchill Livingstone Elsevier

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

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**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Course Outline for Physiology II**

**Code**: **PHY 203**

**Hours**: **30**

**Credit**: **3**

**Competence**

Enable the learner diagnose orthopaedic and trauma patients.

**Outcomes**

1. Demonstrate understanding of the endocrine system
2. Explain the role of the respiratory system in gaseous exchange
3. Demonstrate understanding of functions of the gastrointestinal tract system
4. Demonstrate understanding of functions of the genito-urinary tract system
5. Explain the role of the Special organs in the body

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Endocrine system |
| Week 2: |  |  | Endocrine system |
| Week 3 |  |  | Respiratory system |
| Week 4 |  |  | Respiratory system |
| Week 5: |  |  | Respiratory system |
| Week 6: |  |  | Respiratory system |
| Week 7: |  |  | Digestive system |
| Week 8: |  |  | Digestive system |
| Week 9: |  |  | **CATs** |
| Week 10: |  |  | Genito-urinary system |
| Week 11 |  |  | Genito-urinary system |
| Week 12: |  |  | Genito-urinary system |
| Week 13: |  |  | Genito-urinary system |
| Week 14: |  |  | Special Organs |
| Week 15: |  |  | Special Organs |
| Week 16: |  |  | Special Organs |
| Week 17: |  |  | Study Leave |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Endocrine system;** functions, types of endocrine glands, hormones and their functions, endocrine access, feedback mechanism. **Respiratory system;** review of structures, functions, defence mechanism, gaseous exchange. **Digestive system;** review of structures, functions, enzymes, hormones, common conditions. **Genito-urinary system**; review of structures, functions, regulation of vitamin D and erythropoiesis. **Special Organs;** the eye, nose, ear, tongue

**Teaching Strategies**

Interactive lecture, small group demonstration, small group discussion

**Teaching/Learning Resources**

Laptop, computers, projectors, whiteboards, maker pens, lesson plans and recommended textbooks

**Assessment strategies**

*Formative:* Continuous assessment tests, Quiz, Assignment

*Summativ*e: End of semester examination accounts for 60% of the total marks.

**References/Further Readings**

Barret, K. E. et al. (2016). *Ganong’s review of medical physiology* 25th ed., New Delhi: McGraw

Hill Education

Hall, J. E. (2011). *Guyton and Hall textbook of medical physiology* 12th ed., Philadelphia: Saunders

Elsevier

Sembulingam, K. and Sembulingam, P. (2012). *Essentials of Human Physiology* 6th ed., New

Delhi: Jaypee Brothers medical publishers.

Waugh, A. and Grant, A. (2011). *Ross and Wilson Foundation of Anatomy and Physiology in*

*health and illness* 11th ed., Edinburgh: Churchill Livingston

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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**Course Outline for Orthopaedic Nursing**

**Code**: **PHY 203**

**Hours**: **30**

**Credit**: **3**

**Competence**

Enable the learner to apply principles of nursing in the management of orthopaedic and trauma condition.

**Outcomes**

1. Demonstrate understanding of Nursing Practice
2. Demonstrate understanding of admission and discharge procedures
3. Participate in nursing of orthopaedic and trauma patient
4. Demonstrate understanding of aseptic techniques
5. Demonstrate understanding of pre- and post – operative care of orthopaedic and trauma patients

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to nursing |
| Week 2: |  |  | Admission and discharge procedures |
| Week 3 |  |  | Admission and discharge procedures |
| Week 4 |  |  | Admission and discharge procedures |
| Week 5: |  |  | Nursing procedures in orthopaedic and trauma |
| Week 6: |  |  | Nursing procedures in orthopaedic and trauma |
| Week 7: |  |  | Nursing procedures in orthopaedic and trauma |
| Week 8: |  |  | Nursing procedures in orthopaedic and trauma |
| Week 9: |  |  | **CATs** |
| Week 10: |  |  | Aseptic techniques |
| Week 11 |  |  | Aseptic techniques |
| Week 12: |  |  | Aseptic techniques |
| Week 13: |  |  | Pre- and Post-operative care |
| Week 14: |  |  | Pre- and Post-operative care |
| Week 15: |  |  | Pre- and Post-operative care |
| Week 16: |  |  | Pre- and Post-operative care |
| Week 17: |  |  | Study Leave |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to nursing;** Principles & concept of nursing. **Admission and discharge procedures;** patient bio data, clerkship, follow-up. **Nursing procedures in orthopaedic and trauma;** vital signs, routine tests, recording, reporting, medication, ordering of drugs. **Aseptic techniques;** infection prevention and control, wound care, use personal protective equipment. **Pre- and Post-operative care;** patient counselling, pre-operative preparation, patient movement, activities of daily living

**Teaching Strategies**

Interactive lecture, small group demonstration, small group discussion

**Teaching/Learning Resources**

Laptop, computers, projectors, whiteboards, maker pens, lesson plans, recommended textbooks, models and PowerPoint slides

**Assessment strategies**

*Formative:* Continuous assessment tests, Quiz, Assignment

*Summativ*e: End of semester examination accounts for 60% of the total marks.

**References/Further Readings**

1. Nursing procedure manual
2. Standard operating procedures in nursing.

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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**Course Outline for Casting & Splinting**

**Code: CST 203**

**Hours: 30**

**Credit**:  **3**

**Competence**

This module is designed to enable the learner apply casts and splints to orthopaedic and trauma patients

**Outcomes**

1. Use casting and splinting materials
2. Carry out casting and splinting of upper limbs
3. Carry out casting and splinting of lower limbs
4. Understand occupational health and safety casting

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to casting and splinting; |
| Week 2: |  |  | Introduction to casting and splinting; |
| Week 3 |  |  | Occupational health and safety |
| Week 4 |  |  | Upper limb casts and splints |
| Week 5: |  |  | Upper limb casts and splints |
| Week 6: |  |  | Upper limb casts and splints |
| Week 7: |  |  | Upper limb casts and splints |
| Week 8: |  |  | Upper limb casts and splints |
| Week 9: |  |  | **CATs** |
| Week 10: |  |  | Upper limb casts and splints |
| Week 11 |  |  | Lower limb casts and splints |
| Week 12: |  |  | Lower limb casts and splints |
| Week 13: |  |  | Lower limb casts and splints |
| Week 14: |  |  | Lower limb casts and splints |
| Week 15: |  |  | Lower limb casts and splints |
| Week 16: |  |  | Lower limb casts and splints |
| Week 17: |  |  | Study Leave |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to casting and splinting**; principles of casting & splinting, overview of materials and their properties. Occupational health and safety; instructions to patients, review, duration, specific casts, storage, and waste disposal. **Upper limb casts and splints;** types, indications, contraindications, application techniques, care and complications, **Lower limb casts and splints:** types, indications, contraindications, application techniques, care and complications

**Teaching Strategies**

Interactive lecture, small group demonstration, small group discussion

**Teaching/learning resources**

Laptop, computers, projectors, whiteboards, maker pens, lesson plans and recommended textbooks

**Assessment strategies**

*Formative:* Continuous assessment tests accounts for 40% of the total marks.

*Summative*: Final qualifying examination accounts for 60% of the total marks

**References/Further Readings**

Adams, J. (2012). *Outline of fractures* 12th ed., London: Churchill Livingstone

Ronald, M. and max, E.(2008). *Practical fracture management* 5th ed., Churchill livingstone

Kenneth, A., Keneth, J., and Joseph, D. (2012). *Hand book of fractures* 4th ed.,India: New Delhi

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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| Name: |  |
| Qualifications: |  |
| Phone Number: |  |
| Email address: |  |
| Signature: |  |
| Date: |  |

**Course Outline for Traction Techniques**

**Code: TRA 203**

**Hours: 30**

**Credits: 3**

**Competence**

Enable the learner to apply tractions on patients with orthopaedic and trauma conditions

**Outcomes**

1. Demonstrate understanding and principles of tractions
2. Apply lower limb tractions
3. Apply upper limb tractions
4. Demonstrate understanding of spine tractions
5. Carry out application of pelvic tractions

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction |
| Week 2: |  |  | Introduction |
| Week 3 |  |  | Lower Limb tractions |
| Week 4 |  |  | Lower Limb tractions |
| Week 5: |  |  | Lower Limb tractions |
| Week 6: |  |  | Lower Limb tractions |
| Week 7: |  |  | Lower limb tractions |
| Week 8: |  |  | Upper limbs traction |
| Week 9: |  |  | **CATs** |
| Week 10: |  |  | Upper limbs traction |
| Week 11 |  |  | Upper limbs traction |
| Week 12: |  |  | Tractions of the spine |
| Week 13: |  |  | Tractions of the spine |
| Week 14: |  |  | Tractions of the spine |
| Week 15: |  |  | Pelvic tractions |
| Week 16: |  |  | Pelvic tractions |
| Week 17: |  |  | Study Leave |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction;** definition, principles, types, methods. **Lower Limb tractions;** types, indications, contraindications, application and removal technique, care, complications. **Upper limb tractions;** types, indications, contraindications, application and removal techniques, care, complications, **Tractions of the spine**; types, indications, contraindications, application technique, care, complication. **Pelvic tractions;** types, indications, contraindications, application technique, care, complication.

**Teaching Strategies**

Interactive lecture, small group demonstration, small group discussion

**Teaching/learning resources**

Laptop, computers, projectors, whiteboards, maker pens, lesson plans and recommended textbooks

**Assessment strategies**

*Formative:* Continuous assessment test accounts for 40% of the total marks.

Summative: Final qualifying examination accounts for 60% of the total marks

**References/Further Readings**

Adam, J. (2012). *Outline of Fractures* 12th edition, London: Churchill Livingstone

Ronald, M. and Max, E. (2008). *Practical Fracture Management.* 5th edition Churchill livingstone

Kenneth, A., Keneth, J, and Joseph, D. (2015). *Hand book of fractures.* 5th edition, India: New Delhi, India

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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| Qualifications: |  |
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| Email address: |  |
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| Date: |  |

**Course Outline for Diagnostic and Imaging techniques**

**Code: DIT 303**

**Hours: 30**

**Credits: 3**

**Competence**

Enable the learner to identify orthopaedic and trauma conditions on radiographs

**Module Outcomes**

1. Demonstrate understanding of diagnostic imaging in management of orthopaedic and trauma conditions
2. Demonstrate understanding of effects of radiation
3. Relate the radiological findings with clinical presentation of the patient.

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to diagnostic images |
| Week 2: |  |  | Principles & concepts of radiology and imaging |
| Week 3 |  |  | Principles & concepts of radiology and imaging |
| Week 4 |  |  | Principles & concepts of radiology and imaging |
| Week 5: |  |  | Principles & concepts of radiology and imaging |
| Week 6: |  |  | Principles & concepts of radiology and imaging |
| Week 7: |  |  | Identify musculoskeletal abnormalities |
| Week 8: |  |  | Identify musculoskeletal abnormalities |
| Week 9: |  |  | **CATs** |
| Week 10: |  |  | Identify musculoskeletal abnormalities |
| Week 11 |  |  | Identify musculoskeletal abnormalities |
| Week 12: |  |  | Identify musculoskeletal abnormalities |
| Week 13: |  |  | Identify musculoskeletal abnormalities |
| Week 14: |  |  | Identify musculoskeletal abnormalities |
| Week 15: |  |  | Identify musculoskeletal abnormalities |
| Week 16: |  |  | Identify musculoskeletal abnormalities |
| Week 17: |  |  | Study Leave |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to diagnostic images**; background information, definitions; **Principles & concepts of radiology and imaging**; types, principles, indications, health risks and safety. Principles & concepts of radiology and imaging. **Identify musculoskeletal abnormalities;** orthopaedic & trauma disorders

**Teaching Strategies**

Interactive lecture, small group demonstration, small group discussion

**Teaching/learning resources**

Laptop, computers, projectors, whiteboards, maker pens, lesson plans and recommended textbooks

**Assessment strategies**

*Formative:* Continuous assessment test accounts for 40% of the total marks.

*Summative*: End of semester examination accounts for 60% of the total marks

**References/Further Readings**

Adam, J. (2012). *Outline of Fractures* 12th edition, London: Churchill Livingstone

Ronald, M. and Max, E. (2008). *Practical Fracture Management.* 5th edition Churchill livingstone

Kenneth, A., Keneth, J, and Joseph, D. (2015). *Hand book of fractures.* 5th edition, India: New

Delhi, India

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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| Qualifications: |  |
| Phone Number: |  |
| Email address: |  |
| Signature: |  |
| Date: |  |

**Course Outline for Introduction To Medicine**

**Code:** **GMD 203**

**Hours: 30**

**Credit: 3**

**Competence**

Enable the learners to identify common medical conditions and refer appropriately.

**Outcomes**

1. Identify common communicable diseases relevant to Orthopaedic and trauma conditions
2. Identify common non communicable diseases relevant to Orthopaedic and trauma conditions
3. Demonstrate understanding common pharmaceutical agents used in trauma patients

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Common communicable diseases |
| Week 2: |  |  | Common communicable diseases |
| Week 3 |  |  | Common communicable diseases |
| Week 4 |  |  | Common communicable diseases |
| Week 5: |  |  | Common communicable diseases |
| Week 6: |  |  | Non communicable diseases |
| Week 7: |  |  | Non communicable diseases |
| Week 8: |  |  | Non communicable diseases |
| Week 9: |  |  | **CATs,** |
| Week 10: |  |  | Non communicable diseases |
| Week 11 |  |  | Non communicable diseases |
| Week 12: |  |  | Pharmaceutical agents |
| Week 13: |  |  | Pharmaceutical agents |
| Week 14: |  |  | Pharmaceutical agents |
| Week 15: |  |  | Pharmaceutical agents |
| Week 16: |  |  | Pharmaceutical agents |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Common communicable diseases;** Introduction infections, immunity and defence mechanism, acute infections, TB, pneumonia, and chronic infections, tropical diseases malaria, fungus. **Non communicable diseases;** endocrine diseases, diabetes, cardiac conditions, cancer, vascular conditions, degenerative disorders diabetes mellitus, cancer. **Pharmaceutical agents;** Introduction**,** Principles of pharmacology, approval and regulations, pharmacokinetics and pharmacodynamics of common drugs, drugs, anti infectious agents, antiepileptic, local anesthetics,muscle relaxtants,

**Teaching Strategies**

Lectures, demonstration, group discussions, individual assignments and case studies

**Teaching/Learning Resources**

Laptop computer, projector, white board and whiteboard markers

**Assessment Strategies**

*Formative*: CAT(s) accounts for 40% of the total marks

*Summative*: End of Semester Examinations accounts for 60% of the total marks

**References/Further Readings**

Davidson’s principles and practice of medicine

Haematology text book

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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| Qualifications: |  |
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**Course Outline for Traumatology I**

**Code: TRA 203**

**Hours: 30**

**Credits: 3**

**Competence**

Enable the learner to identify and manage various trauma conditions

**Outcomes**

1. Demonstrate understanding of trauma
2. Classify fractures
3. Identify clinical and radiological features of fractures
4. Apply principles of fracture management
5. Understand general complications of fractures.

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to traumatology |
| Week 2: |  |  | Classification of fractures |
| Week 3 |  |  | Classification of fractures |
| Week 4 |  |  | Classification of fractures |
| Week 5: |  |  | Classification of fractures |
| Week 6: |  |  | Clinical and Radiological features of fractures |
| Week 7: |  |  | Clinical and Radiological features of fractures |
| Week 8: |  |  | Clinical and Radiological features of fractures |
| Week 9: |  |  | **CATs** |
| Week 10: |  |  | Clinical and Radiological features of fractures |
| Week 11 |  |  | Principles of fracture management |
| Week 12: |  |  | Principles of fracture management |
| Week 13: |  |  | Principles of fracture management |
| Week 14: |  |  | Principles of fracture management |
| Week 15: |  |  | Complications of Fractures |
| Week 16: |  |  | Complications of Fractures |
| Week 17: |  |  | Study Leave |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to traumatology;** Historical background, Present trends and terminologies, mechanism of injury fracture healing. **Classification of fractures;** aetiology, patterns, displacement, clinical presentation, **Clinical and Radiological features of fractures;** signs, symptoms, radiological features. **Principles of fracture management;** First Aid, Reduction, Immobilization and Rehabilitation. **Complications of Fractures;** immediate, early and late

**Teaching Strategies**

Interactive/modified lectures, small group demonstrations, video interactions and small group discussions

**Teaching/Learning Resources**

Laptop, computers, projectors, whiteboards, maker pens, lesson plans, recommended textbooks, models and PowerPoint slides

**Assessment strategies**

*Formative:* Continuous assessment test accounts for 40% of the total marks.

Summative: Final qualifying examination accounts for 60% of the total marks

**References/Further Readings**

David, L., Hamblen, A., Hamish, R. and Simpson, w. (2007.) *Adam’s Outline of fractures,* 12th

Ed. Churchill Livingstone, Elsevier

Dandy, D. and Edwards, D. (2009). *Essential Orthopaedics and Trauma*. 5th Ed. Churchill

Livingstone, Edinburgh

Kenneth, A, et al (2010). *Handbook of Fractures.* 4th Ed. Wolters Kluwer, Philadelphia

McRae, S. and Esser, M. (2008). *Practical fracture Management.* 5th Ed. Elsevier Churchill

Livingstone, Edinburgh

Sherry, E and Bokor, D. (1997). *Sports Medicine – Problems and Practical Management.*

Greenwich Medical Media, London

Louis, S., David, W. and Selvadurai, G. (2010). *Apley’s Syetem of Orthopaedics and Fractures,*

8th Ed.

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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| Qualifications: |  |
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| Email address: |  |
| Signature: |  |
| Date: |  |

## Course Outline for Orthopaedics

**Code: ORT 203**

**Hours: 30**

**Credits: 3**

**Competence**

Enable the learner to manage common orthopedic conditions

**Outcomes**

1. Demonstrate understanding orthopaedic disorders.
2. Classify orthopaedic disorders.
3. Manage orthopaedic disorders

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to orthopaedics |
| Week 2: |  |  | Introduction to orthopaedics |
| Week 3 |  |  | Classification of orthopaedic conditions |
| Week 4 |  |  | Classification of orthopaedic conditions |
| Week 5: |  |  | Classification of orthopaedic conditions |
| Week 6: |  |  | Classification of orthopaedic conditions |
| Week 7: |  |  | Classification of orthopaedic conditions |
| Week 8: |  |  | Classification of orthopaedic conditions |
| Week 9: |  |  | **CATs** |
| Week 10: |  |  | Classification of orthopaedic conditions |
| Week 11 |  |  | Classification of orthopaedic conditions |
| Week 12: |  |  | Classification of orthopaedic conditions |
| Week 13: |  |  | Classification of orthopaedic conditions |
| Week 14: |  |  | Principles of management |
| Week 15: |  |  | Principles of management |
| Week 16: |  |  | Principles of management |
| Week 17: |  |  | Study Leave |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to orthopaedics;** Historical background, general considerations in Orthopaedic surgery, **Classification of orthopaedic conditions;** infections, deformities, degenerative, neurological disorders, neoplasms. **Principles of management;** conservative and surgical

**Teaching Strategies**

Interactive/modified lectures, small group demonstrations, video interactions and small group discussions

**Teaching/learning resources**

Laptop, computers, projectors, whiteboards, maker pens, lesson plans, recommended textbooks, models and PowerPoint slides

**Assessment strategies**

*Formative:* Continuous assessment test accounts for 40% of the total marks.

*Summative:* Final qualifying examination accounts for 60% of the total marks

**References/Further Readings**

David, L., Hamblen, R. and Simpson, W. (2010). *Adam’sOutline of Orthopaedics.* 14th Ed,

Churchil Livingstone, Elservier

Gartland, J.J. (1965). *Fundamentals of Orthopaedics*. Philadelphia, London:W.B. Saunders

company

Powel, M. (1976). *Orthopaedic Nursing*. 7th ed. London:Harcourt Brace/Churchil Livingstone.

McRae, R. (2010). *Clinical Orthopaedic Examination*. 6th ed. London: Churchil Livingstone

Elsevier.

Louis, S., David, W. and Selvadurai, R. (2010). *Apley’s Syetem of Orthopaedics and Fractures*.

8th Ed.

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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| Qualifications: |  |
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| Signature: |  |
| Date: |  |

**Course Outline for** **Introduction to Health Systems Management**

**Code:** **HSM 303**

**Hours: 30**

**Credit: 3**

**Competence**

Enable the learner utilize concepts and principals of managerial skills

**Outcomes**

1. Demonstrate understanding of management process in the health sector
2. Demonstrate understanding of organization of healthcare delivery system
3. Use communication skills within healthcare delivery

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to Leadership and Management |
| Week 2: |  |  | Introduction to Leadership and Management |
| Week 3 |  |  | Introduction to Leadership and Management |
| Week 4 |  |  | Introduction to Leadership and Management |
| Week 5: |  |  | Introduction to Leadership and Management |
| Week 6: |  |  | Organization of Healthcare Services |
| Week 7: |  |  | Organization of Healthcare Services |
| Week 8: |  |  | Organization of Healthcare Services |
| Week 9: |  |  | **Cats** |
| Week 10: |  |  | Organization of Healthcare Services |
| Week 11 |  |  | Organization of Healthcare Services |
| Week 12: |  |  | Communication and Networking |
| Week 13: |  |  | Communication and Networking |
| Week 14: |  |  | Communication and Networking |
| Week 15: |  |  | Communication and Networking |
| Week 16: |  |  | Communication and Networking |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to Leadership and Management;** definitions, importance, principles, functions, leadership skills, qualities and styles. **Organization of Healthcare Services;** structure, purpose, types, functions, levels of service, referral system in Kenya. **Communication and Networking;** effective communication skills, levels of communication, report writing, Curriculum vitae, letter writing, minutes writing

**Teaching Strategies**

Interactive lectures**,** role play, small group discussions

**Teaching/Learning Resources**

Laptops**,** LCD, projector**,** marker pens**,** white board**,** flip chart

**Assessment Strategies**

*Formative:* CAT(s) accounts for 40% of the total marks.

*Summative:* End semester Examinations accounts for 60% of the total marks

**References/Further Readings**

McCauley, C. D., Russ, S. M. and Ellen, V. V. (1998). *The Centre for Creative Leadership*

*Handbook of leadership development*. Greensboro, NC: Centre for Creative Leadership;

San Francisco: Jossey-Bass.

Lomax, S. (2001). *Best practices for Managers for Expatiates*. New York: John Wiley &

Sons.

GoK, Kenya Vision 2030 (2007). Nairobi: Government Printers, Nairobi.

MSH. Managers Who Lead: A Handbook for Improving Health Services- Available on the

Leader Net website: <http://erc.msh.org/leadernet> in the Leadership Facilitator section.

Kotter, J. P. (1990). “What Leaders Really Do.” Harvard Business Review May-June 1990:

1-12.

Nyarango, P.M., Nordberg, E., Liambila, W.N., Onyayo S. and Nangami, M. (2005). Health

Planning and Management for Healthcare managers in Developing Countries. Nairobi:

AMREF.

Armstrong, M (2001) A handbook of Human resource Management Practice. Kegan Page

Ltd: London, U.K.

Sullivan, E. J., and Phillip J. D. (1997). *Effective Leadership and Management in Nursing.* 4th

ed. Menlo Park, CA: Addison Wesley Nursing.

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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| Qualifications: |  |
| Phone Number: |  |
| Email address: |  |
| Signature: |  |
| Date: |  |

## Course Outline for Traumatology II

**Code:**  **TRM 303**

**Hours:** **30**

**Credit:** **3**

**Competence**

Enable the learner manage trauma conditions.

**Outcomes**

1. Manage injuries of the upper limb.
2. Manage injuries of the lower limb.
3. Manage injuries of the head, chest and spine.
4. Manage Joint and Soft tissue injuries

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Fractures of the upper extremity  Fractures of the upper extremity |
| Week 2: |  |  | Fractures of the upper extremity  Fractures of the upper extremity |
| Week 3 |  |  | Fractures of the upper extremity  Fractures of the upper extremity |
| Week 4 |  |  | Fractures of the upper extremity  Fractures of the upper extremity |
| Week 5: |  |  | Fractures of the upper extremity  Fractures of the upper extremity |
| Week 6: |  |  | Fractures of the lower extremity  Fractures of the lower extremity |
| Week 7: |  |  | Fractures of the upper extremity  Fractures of the upper extremity |
| Week 8: |  |  | Fractures of the lower extremity  Fractures of the lower extremity |
| Week 9: |  |  | **Cats,** |
| Week 10: |  |  | Fractures of the lower extremity  Fractures of the lower extremity |
| Week 11 |  |  | Fractures of the lower extremity  Fractures of the lower extremity |
| Week 12: |  |  | Injuries of the head and spine  Injuries of the head and spine |
| Week 13: |  |  | Injuries of the head and spine  Injuries of the head and spine |
| Week 14: |  |  | Injuries of the head and spine  Joint and soft tissue injuries |
| Week 15: |  |  | Joint and soft tissue injuries  Joint and soft tissue injuries |
| Week 16: |  |  | Joint and soft tissue injuries  Joint and soft tissue injuries |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Fractures of the upper extremity;** shoulder girdle, scapula, clavicle, humerus, radius, ulna, carpals, metacarpals and phalanges. **Fractures of the lower extremity;** pelvic girdle, femur, patella, tibia/fibula, tarsals, metatarsals and phalanges. I**njuries of the head and spine;** vertebral bones, dislocations of intra-vertebral bones, ruptures of the discs, ligamentous tears, injuries of the spinal cord. **Joint and soft tissue injuries;** dislocations, Strain, Sprains, subluxation, ligament and tendon injuries, neurovascular injuries, contusions, lacerations, muscle tears.

**Teaching Strategies**

Interactive/modified lectures, small group demonstrations, video interactions and small group discussions.

**Teaching/ Learning Resources**

Laptop, computers, projectors, whiteboards, maker pens, lesson plans, recommended textbooks, models and PowerPoint presentations.

**Assessment Strategies**

*Formative:* CAT(s) accounts for 40% of the total marks.

*Summative:* Final qualifying examinations accounts for 60% of the total marks

**References/Further Readings**

David, L., Hamblen, A., Hamish, R. and Simpson, W. (2007). *Adam’s Outline of*

*fractures*. 12th Ed. London: Churchill Livingstone, Elsevier

Dandy, D. and Edwards, D. (2009). *Essential Orthopaedics and Trauma.* 5th Ed.

Edinburgh: Churchill Livingstone.

Kenneth, A, et al (2010). *Handbook of Fractures.* 4th Ed. Philadelphia: Wolters Kluwer,

McRae, E. M. (2008). *Practical fracture Management*5th Ed. Edinburgh: Elsevier

Churchill Livingstone

Sherry, E. and Bokor, D. (1997). *Sports Medicine – Problems and Practical Management*

1st ed.,London: Greenwich Medical Media

Louis, S., David W. and Selvadurai, R.,*Apley’s Syetem of Orthopaedics and Fractures.*

8th Ed

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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| --- | --- |
| Name: |  |
| Qualifications: |  |
| Phone Number: |  |
| Email address: |  |
| Signature: |  |
| Date: |  |

## Course Outline for Introduction to Research

**Code: RES 303**

**Hours: 30**

**Credit: 3**

**Competence**

Enable the learner to participate in research

**Outcomes**

1. Demonstrate understanding of research process
2. Apply principles of research in report writing.

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to research |
| Week 2: |  |  | Introduction to research |
| Week 3 |  |  | Introduction to research |
| Week 4 |  |  | Introduction to research |
| Week 5: |  |  | Introduction to research |
| Week 6: |  |  | Principles of research |
| Week 7: |  |  | Principles of research |
| Week 8: |  |  | Principles of research |
| Week 9: |  |  | **Cats** |
| Week 10: |  |  | Principles of research |
| Week 11 |  |  | Principles of research |
| Week 12: |  |  | Principles of research |
| Week 13: |  |  | Principles of research |
| Week 14: |  |  | Principles of research |
| Week 15: |  |  | Principles of research |
| Week 16: |  |  | Principles of research |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to research**; definition, concepts, purpose, objectives, importance, scope, types and characteristics. **Principles of research;** methodology, components, qualities, identification of research topic, literature review, study area, sampling, frame work, data collection, tools, analysis, interpretation, summary, discussion, conclusion, recommendations to research, ethical issues, authority, report writing, developing a report

**Teaching Strategies**

Interactive /modified lectures, community visits, small group discussions

**Teaching/ Learning Resources**

Flip chart, marker pens, masking tape, note books and pens, LCD projector, laptops,

**Assessment strategies**

*Formative:* CAT(s) accounts for 40% of the total marks.

*Summative:* End semester Examinations accounts for 60% of the total marks

**References/ Further Readings**

Brink, H. (2006). *Fundamentals of research methodology for healthcare professional*

*practitioners*, second edition, Cape Town: JUTA and Company.

Creswell, W. (2009). *Research design: Qualitative, Quantitative, and Mixed methods*

*approaches,* Los Angeles, SAGE Publications.

Kumar, R. (2005). *Research Methodology: A step by step guide for beginners*, Second

edition, London: SAGE publishers.

Mugenda, M. and Mugenda, G. (1990). *Approaches to quantitative and qualitative*

*research.* Nairobi: Africa Centre for Technology studies.

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**KENYA MEDICAL TRAINING COLLEGE**

**DEPARTMENT OF ORTHOPAEDICS & TRAUMA MEDICINE**

**Course Outline**

**For**

**Certificate Course In Orthopaedic &Trauma Medicine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Lecturer’s Details**

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| Phone Number: |  |
| Email address: |  |
| Signature: |  |
| Date: |  |

## Course Outline for Rehabilitation techniques

**Code: REH 303**

**Hours: 30**

**Credit: 3**

**Competence**

Enable the learner apply basic principles of rehabilitation

**Outcomes**

1. Explain rehabilitation techniques
2. Identify cases that require Orthopaedic Technology
3. Identify cases that require Physiotherapy
4. Identify cases that require Occupational Therapy

**Content Delivery**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Dates | | Unit |
| **From** | **To** |
| Week 1: |  |  | Introduction to rehabilitation techniques; |
| Week 2: |  |  | Introduction to rehabilitation techniques; |
| Week 3 |  |  | Orthopaedic technology |
| Week 4 |  |  | Orthopaedic technology |
| Week 5: |  |  | Orthopaedic technology |
| Week 6: |  |  | Orthopaedic technology |
| Week 7: |  |  | Orthopaedic technology |
| Week 8: |  |  | Physiotherapy |
| Week 9: |  |  | **Cats,** |
| Week 10: |  |  | Physiotherapy |
| Week 11 |  |  | Physiotherapy |
| Week 12: |  |  | Physiotherapy |
| Week 13: |  |  | Occupational therapy |
| Week 14: |  |  | Occupational therapy |
| Week 15: |  |  | Occupational therapy |
| Week 16: |  |  | Occupational therapy |
| Week 17: |  |  | Study Week |
| Week 18: |  |  | **End of Semester Examinations** |

**Module Content**

**Introduction to rehabilitation techniques;** definition, terminologies used, rehabilitation aids. **Orthopaedic technology;** definition, terminologies, types of orthopaedic appliances and indication of orthopaedic technology services, introduction to Biomechanics. **Physiotherapy**; definitions, terminologies used, forms, benefits and indications. **Occupational therapy;** definitions, forms, role, benefits and indications.

**Teaching Strategies**

Interactive lectures, small group demonstrations, small group discussions, tutorial interactions

**Teaching/Learning Resources**

Whiteboard, LCDs, Flip Charts, Laptops, Blackboard models, videos, marker pens, PowerPoint presentations,

**Assessment Strategies**

*Formative:* CAT(s) accounts for 40% of the total marks.

*Summative:* End semester Examinations accounts for 60% of the total marks

**References/ Further Readings**

Laleila, D. and Meriano, C. (2002). *Occupational Therapy Manual for Evaluation of Range*

*of Motion and Muscle Structure.* 1st Edition.

Chisholm, T., Dolhi, O. and Schoeiber, R. (2004.) *Occupational Therapy Intervation.*

*Resource Manual.* India:

Karen, B., Martin, C. and Richard, M. (2001). *Mobility Aids and Prostheses for a Child with*

*Four Anomalus Limbs.* New Jersey. Apex Foot Products corp.

**Prepared By:** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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