**JKENYA MEDICAL TRAINING COLLEGE**

**COURSE OUTLINE**

**DEPARTMENT OF CLINICAL MEDICINE**

**Total Semesters – 6, in duration of 3 years**

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| **YEAR I** | **SEMESTER 1** |  |  |
| **MODULE** | **UNITS** | **THEORY HOURS** | **PRACTICAL**  **HOURS** |
| 1.Human psychology | * Introduction to psychology * Human growth & development * Cognitive psychology * Motivation and emotions * Personality | 30 |  |
| 2.Communication skills | * Introduction to communication * Modes of communication * Patterns of communication * Listening skills * Reading and learning skills | 30 |  |
| 3.Computer application | * Introduction to computer * Application software * Security * Internet * Basic computer maintenance | 15 | 45 |
| 4.HIV/AIDS/STI | * Fundamentals of HIV &AIDS * Prevention of HIV& AIDS * Management of HIV&AIDS * Strategic behaviour change communication (SBCC) * Home and community based care (HCBC) * STIs | 30 |  |
| 5.Human physiology I | Introduction  Cell biology  Body fluid compartments  Blood and lymphatic system  Cardiovascular system  Muscular system  Practicum-skills lab | 50 | 10 |
| 6.Human anatomy I | * Introduction * The cell * Embryology * Tissues * Body cavities * Body systems I | 60 |  |
| 7.Clinical methods I | * Communication skills and history taking * General examination and vital signs * Examination of systems:- * respiratory * cardiovascular * digestive and abdominal * neuromuscular * genutourinary-skills lab | 60 | 90 |
| 8.Medical parasitology and Laboratory techniques I | * Introduction * Helminthology | 30 |  |
| 9.Medical microbiology I | * Introduction * Bacteriology I-the cocci * Bacteriology I-the bacilli | 30 |  |
| 10.General pathology I | * Introduction * Cell pathology * Inflammation and healing | 30 |  |
| 11.Medical biochemistry I | * Essential biochemistry and protein synthesis * Biomolecule I * Biomolecule II * Protein/nucleotides metabolism and disorders | 30 |  |
| 12.Pharmacology and therapeutics I | * Introduction * Pharmacokinetics * Pharmacodynamics * Anti-parasitic agents | 30 |  |
| 13.Community health I | * Introduction * Nutrition * Primary health care * Community based health care * Health education | 30 |  |

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| YEA R I | SEMESTER II |  |  |
| MODULE | UNITS | THEORY  HOURS | PRACTICAL  HOURS |
| 1.First aid | * Overview of first aid * Casualty management * Management of:- * Conditions of the body systems * Various emergency conditions * Body injuries * Skills demonstration and practice``` | 30 |  |
| 2.Human anatomy II | * Body systems II * Special senses | 60 |  |
| 3.Human physiology II | * Nervous system * Endocrine system * Respiratory system * Reproductive system * Urinary system * Gastrointestinal tract * Sensory system | 60 |  |
| 4.Clinical methods II | * Introduction to nursing skills * Injection safety, infection prevention and control * Practicum and skills lab | 30 | 90 |
| 5. Medical parasitology and laboratory techniques II | * Protozoa * Introduction to laboratory techniques | 30 |  |
| 6. Medical microbiology  II | * Viruses * Fungi | 30 |  |
| 7.General pathology II | * Disorders of circulation and fluid balance * Genetic disorder * Immunology | 20 |  |
| 8.Medical biochemistry II | * Metabolism and disorders of:-   + Lipids   + Carbohydrates * Clinical biochemistry | 30 |  |
| 9. Pharmacology and therapeutics II | * Ant-bacterial agents * Antifungal agents * Antiviral agents * Topical agents and antiseptics | 60 |  |
| 10.Behavioural sciences | * Introduction to sociology and anthropology * Counselling | 30 |  |
| 11.Community health II | * Introduction to community health and pest control * Waste management and housing * Water supply and food hygiene | 30 |  |

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| YEAR II | SEMESTER I |  |  |
| MODULE | UNITS | THEORY  HOURS | PRACTICALS  HOURS |
| 1.Research | * Introduction to research * Proposal writing * Research process * Data collection, analysis and presentation * Research proposal writing(practical) | 60 |  |
| 2.Health systems management I | * Introduction to leadership and management * Organization of Healthcare services * Human resource management * Communication and Networking * Commodity and supplies management | 30 |  |
| 3.Health statistics | * Introduction * Measures of:- * central tendency * dispersion * relationship * statistical data * data analysis and presentation | 30 |  |
| 4.Pharmacology and therapeutics III | * Drugs acting on:- * Digestive system * Respiratory system * Diuretics and drugs acting on the cardiovascular system |  |  |
| 5.Community health III | * Epidemiology * Demography * Occupational health and safety | 30 | 90 |
| h6.Paediatrics and child health I | * Introduction to paediatrics and neonatololgy * Growth and development * Infant feeding and nutritional disorders * Immunization and immunizable and tropical diseases * Kenya essential package of health * Respiratory diseases and conditions | 60 |  |
| 7.Surgery I | * Introduction to:-   + surgery   + orthopaedics & traumatology * pre and postoperative surgical care * soft tissue conditions * chest conditions | 60 |  |
| 8.Reproductive health I | * introduction to RH * Anatomy and physiology of RH * Clinical assessment in gynaecology * Menstrual cycle and disorders * Obstetric assessment/ normal pregnancy * Monitoring and management of normal pregnancy | 60 |  |
| 9.Medicine I | * Tropical medicine, STI,HIV AIDS and Dermatology * Respiratory system * Cardiovascular system | 60 |  |
| 10. Clinical pathology I | * Cardiovascular pathology * Respiratory pathology | 30 |  |
| 11.Clinical placement I |  |  | 90 |

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| YEAR II | SEMESTER II |  |  |
| MODULES | UNITS | THEORY  HOURS | PRACTICALS  HOURS |
| *1. Health systems* management II | * Financial resource management * Health information systems * Quality assurance in health services * Project management * Monitoring and evaluation | 30 |  |
| 2.Pharmacology and therapeutics IV | * Drugs acting on genitourinary system * Drugs acting on endocrine and central nervous system | 60 |  |
| 3.Community health IV | * Communicable diseases * Non communicable diseases | 30 |  |

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| 4.Paediatrics and child health II | * Cardiovascular disorders * Genitourinary disorders * Gastrointestinal hepatobiliary system disorders * Haematological and lymph reticular disorders | 60 | |  |
| 5.Surgery II | * Gastrointestinal tract and abdominal conditions * Orthopaedics * Injuries of upper and lower limp * Monitor surgical procedures | | 60 |  |
| 6.Reproductive health II | * Early pregnancy 1 * Early pregnancy bleeding 2 * Normal labour * Normal perineum * Family planning and infertility * Sexuality and adolescent | | 60 |  |
| 7.Medicine II | * GIT hepatobiliary system and peritoneal diseases * Haematological lymp reticular disorders and blood transfusion * Urinary system * endocrine disorders | | 60 |  |
| 8.Clinical pathology II | * GIT and hepatobiliary pathology * Genitor urinary pathology * The nervous system | | 30 |  |
| Practical placement II |  | |  | 90 |
| **YEAR III SEMESTER I** | | | | |
| 1. Community health IV | * Drug and substance abuse * Disaster management | | 20 |  |
| 1. Paediatric and child health IV | * Endocrine disorders * Neurological disorders | | 20 |  |
| 1. Surgery IV | * Head neck conditions * Nervous system disorders | | 20 |  |
| 1. RH IV | * Late pregnancy bleeding * Abdominal labor 1 * Abdominal labor 2 | | 20 |  |
| 1. Medicine IV | * Nervous system * Musculoskeletal system | |  |  |
| 1. Clinical placement |  | |  | 140hrs |
| 1. Rural experience |  | |  | 240hrs |
| **YEAR III SEMESTER II** | | | | |
| 1.Pediatric and child health IV | * Pediatric psychiatry * Pediatric emergencies * Introduction to pediatric oncology | |  |  |
| 2.Surgery IV | * urogenital system conditions * Injuries of the spine * Introduction to special units | | 30 |  |
| 3.RH IV | * Medical diseases in pregnancy * Neo-plastic diseases | | 20 |  |
| 4.Medicine IV | * Introduction to mental health * Medical emergencies | | 30 |  |
| 5.Medical entrepreneurship | * Introduction to entrepreneurship * Business plan | | 30 |  |
| 6.Clinical placement | * 1st year 2hrs 2 days a week * 2nd year 3hrs, 2days a week * 3rd year 4 hrs daily | | 240hrs |  |
| 7.Final qualifying exams - FQE | * End of 3rd year | |  |  |
| GRAND TOTAL | DURATION-3YEARS | | 2085 HRS | 1025 HRS |

**CLINICAL PLACEMENT**

-Practical learning involving ward rounds

-First year- 2 hours, 2 days per week

-Second year- 3hours, 2 days per week

-Third year - 4 hours daily

Rotation in medicine, surgery, paediatrics and reproductive health.

**NB:-Summary of the practical events-will be shown by a copy given to the students in details.**

**Assessments**

**Formative**: CATS, OSCE, Term papers, group work, MCQ, T/F, SAQS/ LAQS-DEPENDING on lecturer/ departmental examination committee-score 40%

**Summative: End of Semester examinations**

**-SCORE-60%**

Exam format-PART 1.MCQ, True/False, Matching and Fill In Gaps-60 marks

-PART 2. SAQ, 20 marks

-PART3. LAQ, 20 marks

NB: Practical will include OSCE, SHORT AND LONG cases history examination diagnosis management and presentation in the wards.

Students will **NOT QUALIFY** if he/she has not been to have **passed all** the examinations

Rural experience assessment will contribute 20% of final mark in community health module.

FQE: Will be certified by KMTC Examination Board and papers include:-

Theory/pracat

1. Medicine

2. Paediatrics

3. Surgery

4. Reproductive health

5. Community health-Theory and practical (orals)

6. Health systems management –Theory and practical (oral).

Prepared and compiled by by

Name………………………………………….

Sign………………………………………..

HOD Clinical Medicine.

**Approved by**

Name………………………………..

Sign…………………………………… - PRINCIPAL KMTC MWINGI