**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 | IntroductionCell biologyBody fluid compartmentsBlood and lymphatic systemCardiovascular systemMuscular systemPracticum-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 | THEORYHOURS | PRACTICALHOURS |
| 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 microbiologyII  | * 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 | THEORYHOURS | PRACTICALSHOURS |
| 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 | PRACTICALSHOURS |
| *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………………………………………….

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 HOD Clinical Medicine.

**Approved by**

Name………………………………..

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