

# Kenya Medical Training College

## Background information

Established in 1927 to train local pharmaceutical personnel to meet local needs, KMTC's department of Pharmacy pioneered the training of pharmacy personnel in the country. Today, the department is the leading trainer of middle level manpower in pharmacy at diploma and higher diploma for the country and the East African region. Propelled by the theme – Improving Pharmaceutical Services through Training and Research – the department has also aggressively embarked on research.

## Programmes offered

Diploma and Higher Diploma in Pharmacy

## Diploma in Pharmacy

### Background

Started as a certificate course in 1927, it changed into a diploma in 1968. Since then, the programme has grown in strength. It currently graduates about 90 students annually.

## Department of Pharmacy

### Programme duration

It is a three year programme consisting of:

- a) Two years full time in class for lectures and practicals in the laboratory.
- b) 7 months attachment in hospitals, industries and community pharmacies.
- c) Two months in class after attachment to complete the remaining course work and prepare for qualifying examinations.

## Courses covered

### First year

**COURSE CODE COURSES Total No. of hrs**

PHA 101 Physical Chemistry 120

PHA 101 Inorganic Chemistry 60

PHA 101 Organic Chemistry 120

PHA 102 Biochemistry 120

PHA 103 Medical Physiology & Nutrition 200

PHA 105 Pharmaceutics I 120

PHA 106 Human Anatomy 120

PHA 107 Psychology and Communication 120

PHAI05B Dispensing 60

PHAI01D Analytical Chemistry 60

## Second year

### **COURSE CODE COURSES Total No. of hrs**

PHA 201 Pharmaceutical Chemistry I 120

PHA 208 Medical Microbiology 120

PHA 210 Clinical Pharmacy 120

PHA 211 Pharmaceutics II 120

PHA 212 Pharmacology I 200

PHA 213 Medicinal Chemistry 120

PHA 214 Pharmacognosy 120

PHA 215 Management and Drug Supply  
Management  
30

PHA317A Research Methods 30

PHA105B Dispensing 30

PHA201B Pharmaceutical Analysis 30

PHA317A First Aid 30

## Third year

PHA 317A Research Project 700 hrs

PHA 317B Field Practice 660 hrs

### **COURSE CODE COURSES Total No. of hrs**

PHA 311 Pharmaceutics III 60

PHA 312 Pharmacology II 60

PHA 313 Pharmaceutical Chemistry II 60

PHA 314 Medicinal Chemistry II 60

PHA 315 Pharmacy Law & Ethics 45

PHA 316 Clinical Pharmacy 60

PHA 201B Pharmaceutical Analysis 30

PHA 105B Dispensing 30

## Minimum entry requirements

- a) KCSE minimum aggregate C plain with the following specific requirements: C in English or Kiswahili and Chemistry or Physical Science and Biology, and C- in any one of the following: Physics, Mathematics. .
- b) Any qualification considered equivalent by the academic board.

## Scope

The programme is offered at Nairobi, Mombasa and Machakos MTCs.

## Job opportunities

The graduates of the programme constitute 90% of the pharmaceutical workforce in the country. They work in public hospitals, private hospitals, mission hospitals, and pharmaceutical industries. They also work in community pharmacies, research institutions and with regulatory bodies while others seek self employment.

## Higher diploma in Pharmacy

The program was started in July 1989 to provide diploma graduates with an avenue for career advancement and to make available to the public a more functional drug scientist in the overall primary health care system.

## Program duration and structure

The course, which lasts 18 months, involves coursework, examination and dissertation. Course work runs for the first year of study. The second year is devoted to research, seminars, field attachment and dissertation.

### Term I

#### **S/N Course Total No. of hrs**

1. Pharmacology I 40
2. Pathology I 40
3. Pharmaceutical Chemistry I 40
4. Pharmaceutics I 40
5. Botany I 40
6. Research Design & Methodology 30
7. Statistic 36

### Term II

#### **S/N Course Total No. of hrs**

1. Pharmacology II 48
2. Pathology II 48
3. Toxicology I 40
4. Pharmaceutical Chemistry II 48
5. Pharmaceutics II 50
6. Botany II (Phytochemistry) 48
7. Research Design & Methodology II 36
8. Statistic II 36

### Term III

#### **S/N Course Total No. of hrs**

1. Pharmacology III 40
2. Clinical Pharmacy I 48
3. Toxicology II 40
4. Pharmaceutics Chemistry III 40
5. Microbiology I 40
6. Formulation I (Dosage Forms) 40
7. Herbal Medicine I 48

### Term IV

#### **S/N Course Total No. of hrs**

1. Clinical Pharmacy I 48
2. Toxicology III (Applied Toxicology) 60
3. Pharmaceutical Analysis 48

#### **S/N Course Total No. of hrs**

4. Formulation II 48
5. Microbiology II 48
6. Herbal Medicine 48

## **Term V. Activities**

### **S/N Activities Time**

Preparation of dissertation 2 weeks

Submission & examination of dissertation 6 weeks

Final Examination for each speciality 3 hours

## **Minimum entry requirements**

Holder of Diploma in Pharmacy from an institution recognized by the Ministry of Health.

1. A minimum three years of satisfactory service.
2. Demonstration of the ability to cope with academic work comparable to that of the university
3. Must have been registered by Pharmacy & Poisons Board (PPB).

## **Scope**

The program is offered at KMTc, Nairobi, only.

## **Job opportunities**

Due to their specialized skills and knowledge, the programme graduates head divisions at different levels of healthcare delivery system.

## **Plans for a degree in Pharmacy**

Since inception of the course, many students have graduated with a higher diploma in pharmacy.

There is growing need to put in place a structure that will enable these graduates pursue a degree in pharmacy. Plans are underway to offer the degree programme in collaboration with local universities.

The department also plans to start a degree program on its own.

### **For further information contact:**

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