

**DOMAINE: HEALTH**

**SECTOR: MEDICAL AND BIOMEDICAL SCIENCES**

**SPECIALTY: PHARMACY TECHNOLOGY**

**1. OBJECTIVE OF TRAINING**

This three-year specialty aims to train highly qualified pharmacy technicians who are able to participate in the design, manufacture, administration and storage of drugs under the direction of a pharmacist and provide high quality holistic pharmaceutical care in various clinical, industrial and academic contexts at the local, national or international level.

**2. RESEARCH SKILLS**

**❖ Generic skills**

- Be responsible and reflective ;
- Be proactive and able to take the initiative ;
- Have interpersonal skills ;
- Have organisational skills ;
- Have proven trust and confidence ;
- Have critical ability and questioning ;
- Develop deontological and professional ethical values ;
- Make thoughtful decisions ;
- Compromise and listening skills ;
- Have a good profile (dress and appearance) ;
- Have critical thinking skills ;
- Be able to maintain professional and moral standards ;
- Master the computer tool and ICT.

**❖ Specific skills**

- Make supplies and deliveries of medicines ;
- Read and interpret prescriptions accurately ;
- Establish the validity of prescriptions ;
- Demonstrate systematic distribution procedures ;
- Evaluate the appropriateness of the prescribed drugs ;
- Keep records in a convenient and efficient manner ;
- Repackage and re-label appropriately distributed drugs ;
- Evaluate signs, symptoms and history to distinguish manageable conditions in the practice of pharmacy ;
- Select and advise on the use of pharmacological and non-pharmacological treatment strategies and options, including without treatment ;
- Apply first aid measures if necessary ;
- Precisely calculate quantities of ingredients necessary for the preparation of pharmaceutical products ;
- Select and identify the ingredients for the preparation of the drug product ;
- Apply the principles and techniques of formulation to the preparation of pharmaceutical products ;
- Ensure all drugs and chemicals are packaged, labeled and stored to maximise stability and safety ;

- Examine and evaluate the history of the consumer and prescription drugs ;
- Apply the principales and techniques of formulation to the preparation of pharmaceutical products ;
- Ensure that everything is in accordance with local workplace policy and professional conventions for product preparation ;
- Prepare and maintain the appropriate product documentation ;
- Apply the principles and techniques of sterilisation and asepsis related to the preparation of pharmaceutical products.

### **3. OPPORTUNITIES**

- Pharmacy technicians ;
- Pharmacist Assistant ;
- Pharmacist of hospitals ;
- Pharmaceutical supplier ;
  - Work in the pharmaceutical industry or in the drug supply chain ;
- Pharmacovigilance ;
- Cosmetic industry.

### **4. DURATION OF TRAINING**

For a period of three years, a set of theoretical and practical courses is administered to students with a view to obtaining a Higher National Diploma (HND) sanctioned by MINESUP.

### **5. ADMISSION CONDITION**

#### **Direct registration on file study :**

- A hand written application adressed to the Director of SHS ;
- A complete registration form (available on campus) ;
- 01 disciplinary commitment form to be withdrawn from the establishment ;
- A photocopy of birth certificate ;
- A photocopy of A/L certificate ;
- Annual medical coverage : 5,000 FCFA ;
- Registration fees : 35,000 FCFA ;
- File study fees : Free of charge.

### **6. PEDAGOGICAL APPROACH**

- Lectures ;
- Practical work and personal work ;
- Immersion courses in the professions accompanied by a teaching body and company executives.

### **7. EVALUATION TECHNIQUES**

- Continuous assignment for each course ;
- An exam session written and practical at the end of every semester ;
- Writing a research initiation thesis defended before a jury at the end of the program ;
- National HND exam.

## 8. ORGANISATION OF TEACHINGS

### SEMESTER 1

Code	Course Title	Number of credits
PHT111	Anatomy-Physiology I, Cell Biology Histology and Embryology	5
PHT112	Microbiology I - Bacteriology parasitology - Biochemistry	4
PHT113	General Chemistry I and General Biochemistry I	2
PHT114	Sociology -Anthropology and Medical Psychology	4
PHT115	General Pharmacology / Introduction to nursing I: General concepts-History-Theories Human Development	6
PHT116	Introductory Bloc Posting in a Hospital	6
PHT117	Bilingual Training and Functional Computer	3
<b>Total</b>		<b>30</b>

### SEMESTER 2

Code	Course Title	Number of credits
PHT121	Anatomy and Physiology II	5
PHT122	Microbiology II (Virology - Mycology Immunology)	4
PHT123	General Biochemistry II and General Chemistry II	4
PHT124	Pharmaceutical Microbiology and Pharmaceutical Microbiology Practice	5
PHT125	Nursing Care I	3
PHT126	Hospital Internship II	6
PHT127	French medical - medical English - ICT II	3
<b>Total</b>		<b>30</b>

### SEMESTER 3

Code	courses titles	Number of credits
PHT231	Physical Chemistry I, Organic Chemistry I	5
PHT232	Physical Chemistry I: Practice, Organic Chemistry I: Practice	4
PHT233	Pharmaceutical I and Pharmacognosy I : Practice	5
PHT234	Clinical Pharmacology I : Practice	4
PHT235	Pharmaceutical Chemistry I : Practice	5
PHT236	Clinical Internship & Report (hospitals/drug stores/quality control)	4
PHT237	ICT III, Introduction to Operational Research	3
<b>Total</b>		<b>30</b>

#### SEMESTER 4

Code	Courses Titles	Number of credits
PHT241	Pharmaceutical Analysis I : Practice, Organic Chemistry II	5
PHT242	Epidemiology, Prophylaxis and Vaccinations	4
PHT243	Pharmaceutical II and Pharmacognosy II	4
PHT244	Pharmaceutical II and Pharmacognosy II : Practice	5
PHT245	Clinical pharmacology II and Practice	5
PHT246	Community / Hospital Pharmacy Practice	4
PHT247	Biomedical Statistics and Information, Education and Communication	3
<b>Total</b>		<b>30</b>

#### SEMESTER 5

Code	Courses titles	Number of credits
PHT351	Analytical Chemistry and Clinical Hematology	6
PHT352	Health Information System and Health Economics	3
PHT353	Pharmaceutical III and Practice	6
PHT354	Clinical Pharmacology III and Practice	3
PHT355	Pharmaceutical Chemistry III and Practice	3
PHT356	Clinical Internship & Research Project Evaluation	6
PHT357	Medical Law , Occupational Medicine, Civic education and Ethics	3
<b>Total</b>		<b>30</b>

#### SEMESTER 6

Code	Courses titles	Number of credits
PHT361	Pharmaceutical Biotechnology, Pharmaceutical Legislation	6
PHT362	Community Health and Hygiene Sanitation	3
PHT363	Pharmaceutical IV and Pharmacognosy I : Practice	6
PHT364	Clinical Pharmacology IV and Practice	3
PHT365	Pharmaceutical Chemistry IV	3
PHT366	Hospital Internship VI	6
PHT367	Professional ethics and deontology	3
<b>Total</b>		<b>30</b>