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## Doctor of Philosophy in Pharmacovigilance (Full Time)

## About the Programme

The Ph.D. in Pharmacovigilance is to raise expert skill and professionals in the areas of improving drug and herbal therapy and minimising adverse drug reactions. The complexity of pharmacovigilance requires specialisation in each section of the transformation process. This is best acquired by enrolling for a Ph.D. degree where particular attention can be focused on an area of interest by student. The knowledge and skill acquired will help develop capabilities to effectively undertake the evaluation processes involved in pharmacovigilance in the pharmaceutical industry, herbal/traditional medicine sector for research purposes. We intend to collaborate with experts from the industries to drive this program

The aim of the programme is to train and build human capacity equipped with requisite measures of knowledge and skills in pharmacovigilance that can solve adverse drug reactions related problems while the specific objectives are:

* To produce skilled and competent Pharmacovigilance professionals who can work effectively at different levels in pharmacovigilance departments of pharmaceutical manufacturing and marketing companies, drug regulatory agencies and health facilities.
* To offer training opportunities, and conducting state-of-the-art pharmacovigilance research on a wide range of careers options and employment opportunities in academia, industry or government
* To promote the establishment of collaboration with drug regulatory agency and health sectors on optimizing the science of pharmacovigilance.

The programme will train expert professionals that upon graduation will:

* Be skilled and competent pharmacovigilance professionals who can work effectively at different levels in pharmacovigilance departments of ~~p~~harmaceutical manufacturing and marketing companies, ~~d~~rug ~~r~~egulatory ~~a~~gencies and ~~h~~ealth facilities.
* Be able to conduct state-of-the-art pharmacovigilance research in order to fit into a wide range of careers options and employment opportunities in academia, industry or government
* Be able to promote the establishment of collaboration with drug regulatory agency and health sectors on optimizing the science of pharmacovigilance.

### **Admission** **Requirements**

1. Candidates for the Ph.D. Pharmacovigilance programme shall possess any of the following qualifications:
* An M.Sc. Pharmacovigilance Degree with a minimum CGPA of 4.00 out

 of 5.00 from this center or an equivalent qualification from any other

 approved university.

* An M. Phil. Pharmacovigilance Degree with a minimum CGPA of 4.00 from this center or an equivalent qualification from any other approved university.
* At least a CGPA of 4.00 in 1 of M.Phil. coursework courses at the end of the stipulated minimum duration for the M. Phil. programme.
1. All candidates in the aforementioned three categories shall be subjected to a selection process by the center involving proposal writing and an oral interview.
2. Satisfy all other requirements of the School of Postgraduate Studies.

### **Graduation Requirement**

1. A candidate admitted with an M. Sc. Degree (herein referred to as regular candidate) shall carry a minimum workload of 30 units which must include the following:
2. 6 units M.Phil. Coursework
3. 6 units Ph.D. Term papers
4. 6 units of Research Seminars
5. 12 units of Research Thesis

 2. A student admitted into the Ph.D. programme via M. Phil. conversion or M. Phil. degree shall carry a minimum workload of 2 made up as follows:

1. 6 units Ph.D. Term papers
2. 6 Units of Research Seminars
3. 12 Units of Research Thesis

### **List of Courses for Ph.D. in Pharmacovigilance**

|  |
| --- |
| **900 LEVEL**  |
| **COURSE CODE** | **COURSE TITLE** | **STATUS**  | **UNITS** |
| PVG 951 | Recent Advances in Pharmacovigilance/ Pharmacoepidemiology. | Compulsory | 2 |
| PVG 952 | Recent Advances in Pharmacovigilance Regulations  | Compulsory | 2 |
| PVG 953 | Recent Advances inPharmacovigilance Communications  | Compulsory | 2 |
| PVG 954 | Advanced Topics in Pharmacovigilance And Risk Management System  | Elective | 2 |
| PVG 955 | Advanced Topics in Pharmacogenomics And Pharmacokinetics  | Elective | 2 |
| PVG 991 | Research Seminar I | Compulsory | 3 |
| PVG 992 | Research Seminar II | Compulsory | 3 |
| PUH 999 | Research Thesis | Compulsory | 12 |

### Summary of number of units compulsory and elective courses to be taken/available at each Level

|  |  |  |  |
| --- | --- | --- | --- |
| **Level** | **Units of Compulsory Courses**  | **Units of Elective Courses Available** | **Total of Compulsory Courses** |
| 900 | 24 | 4 | 24 |

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### **Course Contents/Description**

**PVG 951: Recent Advances in Pharmacovigilance/ Pharmacoepidemiology**

Review of recent standard research articles and textbooks on recent advances in Pharmacovigilance/ Pharmacoepidemiology by student. Students will be required to make seminar presentation and submit a term paper.

**PVG 952: Recent Advances in Pharmacovigilance Regulations**

Review of recent standard research articles and textbooks on recent advances in Pharmacovigilance Regulations by student. Students will be required to make seminar presentation and submit a term paper.

**PVG 953: Recent Advances in Pharmacovigilance Communications**

Review of recent standard research articles and textbooks on recent advances in PharmacovigilanceCommunications by student. Students will be required to make seminar presentation and submit a term paper.

**PVG 954: Advanced Topics in Pharmacovigilance and Risk Management System**

Review of recent standard research articles and textbooks on recent advances in Pharmacovigilance and risk management by student. Students will be required to make seminar presentation and submit a term paper.

**PVG 955: Advanced Topics in Pharmacogenomics and Pharmacokinetics**

Review of recent standard research articles and textbooks on recent advances in advanced topics in Pharmacogenomics and Pharmacokinetics by student. Students will be required to make seminar presentation and submit a term paper.

**PVG 991: Research Seminar I**

Presentation and review of preliminary results of Research Project

**PVG 992: Research Seminar II**

Presentation of Progress Report on Research Findings

**PUH 999: Research Thesis**

Students will undertake research projects in specific areas of Pharmacovigilance. The research projects will be geared towards provision of data for the Center’s Digital Herbal Medicine Library (DHML) and a Pharmacovigilance database for African herbal products.