



الجامعة الوطنية - السودان
National University - Sudan

**Doctor of Philosophy
(PhD) by Research in
Pharmaceutical Sciences**



1. Introduction (Background)

The Doctor of Philosophy (PhD) by Research in Pharmaceutical Sciences is a research-intensive doctoral program designed to prepare independent researchers capable of generating original knowledge that advances pharmaceutical sciences and improves healthcare. The program provides an advanced research environment where candidates undertake supervised research leading to a thesis that makes a significant contribution to the discipline and is suitable for publication in internationally recognized peer-reviewed journals. The program encompasses all pharmaceutical disciplines and promotes interdisciplinary research addressing national and global healthcare challenges.

2. Vision

To be a leading doctoral program in pharmaceutical sciences, recognized for excellence in research, innovation, and scientific leadership, contributing to improved healthcare and sustainable development at the national, regional, and international levels.

3. Mission

To prepare highly qualified and ethical researchers through advanced research training, interdisciplinary collaboration, and innovation in pharmaceutical sciences. The program is committed to generating impactful research, promoting evidence-based practice, and developing future leaders who contribute to academia, healthcare, the pharmaceutical industry, and regulatory sectors.

4. Goals

The program seeks to:

- Advance pharmaceutical sciences through high-quality research.
- Develop innovative solutions to healthcare challenges.
- Strengthen research capacity within Sudan and beyond.
- Promote multidisciplinary collaboration.
- Foster ethical research and scientific integrity.
- Contribute to national and global health priorities.

5. Objectives

The program aims to:

- Develop independent researchers in pharmaceutical sciences.
- Produce original, high-quality research.
- Promote innovation and interdisciplinary collaboration.
- Foster ethical research practices and scientific leadership.
- Advance pharmaceutical care and public health.

6. Research Areas

Students may undertake research in, but not limited to:

- Clinical Pharmacy
- Pharmacology
- Pharmaceutics
- Pharmaceutical Chemistry
- Pharmaceutical Biotechnology
- Drug Discovery and Development

- Pharmacogenomics
- Pharmacoeconomics
- Regulatory Science
- Precision Medicine
- Drug Delivery Systems
- Nanomedicine
- Pharmacy Practice
- Pharmaceutical Analysis
- Pharmacovigilance
- Social and Administrative Pharmacy
- Natural Products and Medicinal Plants
- Industrial Pharmacy
- Any other approved pharmaceutical discipline.

7. Admission Requirements

Applicants should possess:

- A master's degree in pharmacy or a related discipline from a recognized university.
- A satisfactory academic record.
- English language proficiency.
- An approved preliminary research proposal.
- Two academic references.
- Fulfilment of the Faculty of Graduate Studies admission requirements.

8. Study Period

- Minimum duration: 2 years
- Maximum duration: 5 years
- Mode of study: Full-time
- Language of instruction and thesis: English

9. General Direction for the Degree

The degree is awarded primarily on the basis of independent supervised research. Candidates are expected to complete advanced research training in research methodology, research ethics, biostatistics and data analysis, scientific writing, research seminars, and original research leading to a doctoral thesis. Throughout the study period, candidates shall demonstrate satisfactory research progress through periodic evaluations and ultimately defend their thesis successfully before an examination committee.

10. Award of the Degree

The degree of Doctor of Philosophy (PhD) by Research in Pharmaceutical Sciences shall be awarded by the National University – Sudan to candidates who have:

- Successfully completed all required research training.
- Conducted an original research project that contributes new knowledge to pharmaceutical sciences.
- Submitted a thesis that satisfies the regulations of the Faculty of Graduate Studies.
- Successfully defended the thesis in an oral examination (Viva Voce).
- Fulfilled all other University requirements for the award of the degree.



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