

PROGRAMME CURRICULUM

MASTER OF SCIENCE IN MEDICAL PHARMACOLOGY

Specialisation in Clinical Pharmacology

Core Courses

S/N	COURSE TITLE	COURSE CODE	UNITS
1	Capstone Project	PHC5001	6
2	Effective Scientific Communication	PHC5003	2
3	Ethics & Good Practice in Medicinal Research	PHC5004	2
4	Clinical Pharmacology I	PHC5006	4
5	Clinical Pharmacology II	PHC5007	4
6	Leadership in Applied Biomedicine	ABM5001	2
7	Advanced Biostatistics for Research	ABM5002	2
TOTAL UNITS			22

Specialisation in Translational Pharmacology

Core Courses

S/N	COURSE TITLE	COURSE CODE	UNITS
1	Capstone Project	PHC5001	6
2	Effective Scientific Communication	PHC5003	2
3	Ethics & Good Practice in Medicinal Research	PHC5004	2
4	Principles and Praxis of Pharmacology	PHC5005	4
5	Leadership in Applied Biomedicine	ABM5001	2
6	Advanced Biostatistics for Research	ABM5002	2
TOTAL UNITS			18

Specialisation in Pharmacology Education

Core Courses

S/N	COURSE TITLE	COURSE CODE	UNITS
1	Capstone Project	PHC5001	6
2	Effective Scientific Communication	PHC5003	2
3	Principles and Praxis of Pharmacology	PHC5005	4
4	Leadership and Innovation in Healthcare Education	PHC5009	2
5	Curriculum Design for Pharmacology	PHC5011	4
6	Mixed Methods Research in Medical Education	PHC5012	4
TOTAL UNITS			22

Specialisation in Regulatory Pharmacology

Core Courses

S/N	COURSE TITLE	COURSE CODE	UNITS
1	Industry Internship*	PHC5002	6
2	Effective Scientific Communication	PHC5003	2
3	Ethics & Good Practice in Medicinal Research (TBC)	PHC5004	2
4	Principles and Praxis of Pharmacology	PHC5005	4
5	Regulatory Affairs Foundations and Practical Approach	PHC5008	2
6	Pharmacovigilance and Regulatory Affairs	PHC5104	4
7	Toxicology and Safety Assessment	PHC5106	4
TOTAL UNITS			24

*Students who are unable to secure an internship by end of Semester 1 / beginning of Semester 2 will take on the Capstone Project PHC5001.

Elective Courses

To graduate with a specialisation, students must complete a minimum of 3 elective courses from their chosen specialisation.

S/N	COURSE TITLE	COURSE CODE	UNITS
Clinical Pharmacology Specialisation			
1	Clinical Trial Design and Management	PHC5101	4
2	N-of-1 Pharmacology	PHC5102	2
3	Personalized Medicines and Pharmacometrics	PHC5103	4
4	Pharmacovigilance and Regulatory Affairs	PHC5104	4
5	Natural Products & Complementary Medicine	PHC5105	2
Translational Pharmacology Specialisation			
1	Toxicology and Safety Assessment	PHC5106	4
2	Next Generation Medicines: From Bench to Bedside	PHC5107	4
3	Green and Sustainable Pharmacology	PHC5108	2
4	The Responsible In-vivo Scientist	PHC5116	2
5	Advanced Human Pharmacology	MDG5204	4
6	Current Practices in Biotechnology	MDG5232	4
7	Understanding IP and Patents in the Biomedical Industry	MDG5252	4
Pharmacology Education Specialisation			
1	Neuroscience of Learning for Healthcare Educators	PHC5115	2
2	Teaching Diverse Minds in Healthcare Education	PHC5113	4
3	Transforming Your Teaching using Technology	PHC5114	4

S/N	COURSE TITLE	COURSE CODE	UNITS
Regulatory Pharmacology Specialisation			
1	Regulatory and Safety Sciences for Medical Devices	PHC5109	2
2	Regulatory Application of New Approach Methodologies (NAMs) & Next-Gen Risk Assessment	PHC5110	2
3	Integrated Biorisk Preparedness for Biomedical Professionals	PHC5111	4
4	Regulatory Science for Healthcare Products	PHC5112	2
5	The Responsible In-vivo Scientist	PHC5116	2
Other Electives			
1	Seminar Series in Medical Pharmacology	PHC5117	2
2	AI in Medical Pharmacology	PHC5118	2