

Course Title/Code:	Basic and Applied Toxicology (MMPH6129)
Department:	Pharmacology and Pharmacy
Objective:	To equip students with an in-depth understanding of the basic principles of toxicological science and to enable them to apply this knowledge appropriately and effectively in determining and evaluating potential health hazards and risks.
Content:	<p>Topics include:</p> <ul style="list-style-type: none"> - principles of toxicology - mechanisms of toxicity - toxicokinetics - chemical carcinogenesis, genetic and developmental toxicology and target organ toxicities - occupational and environmental toxicants - risk assessment and toxicogenomics
Learning outcomes:	<p>On completion of the course, the students are expected to:</p> <ul style="list-style-type: none"> • illustrate the fundamental toxicological principles • evaluate methodologies in toxicological testing • explain molecular mechanisms of chemically induced toxicities • assess the social benefits/risks of the consequence of human exposure to toxicants
Prerequisite:	Students with biological background preferred
Duration:	1 semester; 2.5 hours/week; 24 contact hours
Continuous assessment/ examination ratio:	30% / 70%
Examination method/ duration:	Written examination / 3 hours