Course Title/Code:	Laboratory Animal Handling and Surgical Techniques (MMPH6138)
Department:	Surgery
Objective:	 To introduce the various approaches in the generation and applications of various animal models for medical research To introduce the safety/ethics legislation in the use of animal for medical research To introduce surgical techniques for small and big animals
Content:	 Animal models for human diseases Animal surgical techniques: Demonstration of laparoscopic surgery Audio-visual instruction on animal handling techniques Cancer models Common laboratory animal species in the Laboratory Animal Unit Drug/radiation induced animal disease models Ethics in using laboratory animals Genetically modified (GM) animal disease models Transplantation immunology Transplantation models University & Government regulations governing the use of animals for experimental purposes
Learning outcomes:	 On completion of the course, students are expected to: grasp basic knowledge in the generation of various animal models. understand the application of various animal models in different medical research. understand the safety, ethical regulation and legislation in the use of animals for medical research. gain practical experience in the handling of small rodent.
Prerequisite:	Students are expected to have hand-on experience on small animal handlings and surgical procedures in practical sessions. Those with allergy to animals are NOT advised for enrolment
Duration:	24 contact hours
Continuous assessment/ Final examination (100%) examination ratio:	
Class size:	Maximum 15 MPhil/PhD/MRes(Med) students