SEMESTER I and II
LSM4221 DRUG DISCOVERY AND CLINICAL TRIALS

Prerequisite: LSM3211
Workload: 31 lecture hours + 6 group work hours + 9 project/ seminar hours +4 self-directed learning hours
This module will cover the stages that a drug that is developed for clinical use goes through before it is marketed: discovery/synthesis, preclinical studies, clinical drug trials, registration and post-market surveillance. The different phases of clinical drug trials and the guidelines for ethics and good clinical practice will be discussed. Students are also divided into groups to discuss and design clinical trials. At the end of the course the students will have an overview of the processes involved in bringing a drug from the laboratory to the market.

S/N	Topics	Lecture Hours/Lecturer	
		Sem 1	Sem 2
1.	**Introduction:** History and Overview	1h Dr. Chow	1h A/P Tan
2.	**Drug discovery/Nonclinical development (NCD) - ADME profiling and Safety assessment**	10h Dr. Chow	10h Dr. Chow
3.	**Clinical Drug Trials**	8h Dr. Chow	8h A/P Tan
4.	**Good Clinical Practice/Ethics**	8h A/P Tan	8h A/P Tan
5.	**Drug Regulatory Authority/Registration**	4h A/P Tan	4h A/P Tan
6.	**Case Studies in Drug Development**	2h Dr. Chow	2h Dr. Chow
7.	**Group Work**	6h Dr. Chow	6h A/P Tan
8.	**Clinical trial project/Presentation**	9h Dr. Chow	9h A/P Tan
		Total Lectures: 31h **Projects/Seminar: 9h** **Self Directed Learning: 4h**	
		Total hours:	50h

MODE OF ASSESSMENT: Continuous Assessment and Final Examination

MODULE CO-ORDINATOR:
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LECTURER IN-CHARGE:
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