



MMPH 6124 -- Advancements in Biomedical Engineering

Course Conducted on Every **Wednesday** from September 2024 to December 2024

Time & date	Topic	Lecturer
2:30 - 4:30 pm September 11, 2024	Stem cells and their biomedical applications Mini-project briefing	Dr. Victor Leung
2:30 - 4:30 pm [Zoom] September 25, 2024	Biomedical instrumentation, measurement, and design	Dr. Sloan Kulper
2:30 - 4:30 pm October 2, 2024	Clinical laboratory science and instrumentation	Dr. John Kubi
2:30 - 4:30 pm October 9, 2024	Genetic engineering	Prof. Alan Wong
2:30 - 4:30 pm October 16, 2024	Modelling in medicine: from rule-base to artificial intelligence	Prof. Grace Zhang
4:30 - 6:30 pm [Zoom] October 23, 2024	Knowledge graph and large language models and their applications for medicine	Prof. Honghan Wu
2:30 - 4:30 pm [Zoom] October 30, 2024	Electrical signals in human body	Dr. Tianruo Guo
2:30 - 4:30 pm November 6, 2024	Nanotechnologies and nanomaterials in bioengineering	Prof. Min Wang
2:30 - 4:30 pm November 13, 2024	Biomimetic biomaterials	Dr. Xingxing Yang
2:30 - 4:30 pm November 20, 2024	Light-based techniques and its applications in medical and clinical fields	Dr. Nan Meng
2:30 - 4:30 pm November 27, 2024	Ultrasound imaging	Prof. Wei-Ning Lee
2:30 - 4:30 pm December 4, 2024	Biosensing technology for diagnostics and therapies	Prof. Zhiqin Chu
2:30 - 4:30 pm December 11, 2024	Advanced optical bioimaging technologies	Prof. Kevin Tsia
2:30 – 5:30 pm [Zoom] January 22, 2025	Mini-project presentation	-