

**MMPH6124 Basic Medical Bioengineering**

Course Coordinator:	Dr Victor Leung (email: vicleung@hku.hk) Tel: 3917 6985 Department of Orthopaedics & Traumatology Dr. Grace Zhang (email: tqzhang@hku.hk) Tel: 3917 6898 Department of Orthopaedics & Traumatology School of Clinical Medicine
Delivery Mode of Lectures:	Face to face
Venue:	TBA

Course Conducted on Every Wednesday from September 2023 to December 2023

	Lecture time & date	Topic	Lecturer
1	9:30 -11:30 am September 13, 2023	Biomedical instrumentation, measurement, and design	Dr. Sloan Kulper
2	9:30-11:30 am September 20, 2023	Modelling in medicine: from rule-base to artificial intelligence	Dr. Grace Zhang
3	9:30-11:30 am September 27, 2023	Clinical neural engineering	Dr. Yong Hu
4	9:30-11:30 am October 4, 2023	Clinical laboratory science and instrumentation	Dr. John Kubi
5	9:30-11:30 am October 11, 2023	Stem cells and their biomedical applications Mini-project briefing	Dr. Victor Leung
6	9:30-11:30 am October 18, 2023	Genetic engineering	Dr. Wai-Kit Tam
7	9:30-11:30 am October 25, 2023	Biomimetic biomaterials	Dr. Xingxing Yang
8	9:30-11:30 am November 1, 2023	Nanotechnologies and nanomaterials in bioengineering	Prof. Min Wang
9	9:30-12:00 noon November 8, 2023	Mechanics of human body	Dr. Kun Yang



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10	9:30-11:30 am November 15, 2023	Light applications – microscope, navigation, augmented reality	Dr. Nan Meng
11	9:30-11:30 am November 22, 2023	Ultrasound imaging	Dr. Wei-Ning Lee
12	9:30-11:30 am November 29, 2023	Biosensing technology for diagnostics and therapies	Dr. Zhiqin Chu
13	9:30-11:30 am December 6, 2023	Advanced optical bioimaging technologies	Prof. Kevin Tsia