



Medical Data Analysis (E1BME001T)

Introduction

Biomedical Engineering (BME) is an interdisciplinary field in which biology, medicine, and engineering technologies are combined and applied innovatively to solve human health problems. This talk will first give a brief overview of BME. Then, an area of BME – Medical Data Analysis – will be introduced. Selected topics in it will also be discussed, e.g. analysis of DNA microarray data, brain signal processing, and brain-computer interface.

The speaker, Dr Gary Tam, has worked on research in Bioinformatics (an area belongs to BME) for about 10 years. His research mainly focused on analysis of DNA microarray data from medical experiments, topics included gene selection, tumour classification and gene regulatory network reconstruction.

Programme Type / Level

Biomedical Engineering Talk (Level I) ([NON Token-required](#))

Instructor(s)

Dr Gary Tam
(Programme Officer, Talent Development Division, HKAGE)

Pre-requisite

No special prerequisites are needed

Target Participants

- S1 – S6 HKAGE student members in 2021/22 school year only
- Class size: 40
- * *First-come-first-served.*

This programme is the same as Introductory Talk in Biomedical Engineering: Medical Data Analysis (SCIT1501) in 2019/20 school year.

Medium of Instruction

English with English handouts

Intended Learning Outcomes

- Upon completion of the programme, participants should be able to:
1. Describe the scope and main purpose of biomedical engineering;
 2. Understand the basic concepts of some selected topics in medical data analysis;
 3. Recognise that biomedical engineering is a promising area to develop a career.

Application Deadline

~~16 Aug 2021, 12:00 noon~~
31 Aug 2021, 12:00 noon

Schedule

Date	30 Oct 2021 (Saturday)
Time	11:00 a.m. - 1:00 p.m. (Please arrive at 10:45 a.m. for registration)
Venue	Room 213 (Lecture Theatre), SKH Bishop Baker Secondary School, 10 Fung Yau Street South, Yuen Long (MAP)

Enquiries

For enquiries, please contact us on 3940 0101 or email at programme@hkage.org.hk.