



# Medical Data Analysis (E1BME001T-2)

**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 (Student Programme Development Officer, Academic Programme 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** Cantonese (Supplemented with 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 n.n~~  
**31 Aug 2021, 12:00 n.n**

<b>Schedule</b>	Date	6 Nov 2021 (Saturday)
	Time	11:00 a.m. - 1:00 p.m. (Please arrive at 10:45 a.m. for registration)
	Venue	Yuen Long District (Details to be confirmed)

**Enquiries** For enquiries, please contact us on 3940 0101 after language selection, press "1".