

The Hong Kong University of Science and Technology

UG Course Syllabus

Electronic and Information Technology [Fall 2024/25]

ELEC1010

3 credits

Exclusion(s): Any ELEC courses of 2000-level or above

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Course Description

This general-education course introduces the basics of electronic and information technology and their applications to daily-life consumer electronics and communication devices. Contents include the representation of signals in the time and frequency domains; digitization of information; coding for data compression and error protection; transmission of signals; cellular mobile phones and wireless communications; and the Internet. It is expected that through studying these technologies and how they address the problems encountered in the information technology area, students will also grasp the skills in solving problems with engineering approach and spirit and appreciate how these technologies impact the society.

Assessments:

Assessment Task	Contribution to Overall Course grade (%)
Homework	10%
Mid-Term	30%
Final examination	50%
Class Participation	10%

Required Texts and Materials

No textbook. Lecture notes and Tutorial notes will be provided.