Hong Kong University of Science and Technology

UG Course Syllabus

Course Title: Information Technology Revolution: Past, Present and Future

Course Code: ELEC 1150

No. of Credits: 3

Instructor: Dr. Isabel Guan

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Course Description

This course introduces fundamental concepts in information technology and traces its major breakthroughs over the past century, from the invention of the transistor to the rise of the internet and AI. Students will explore how IT innovations have transformed society, business, and daily life, while also considering future trends and challenges. Instruction includes lectures, discussions, and student presentations.

Assessments

Assessment Task	Contribution (%)
Online Quizzes (best 7 of 8)	14%
In-lecture Participation & Quizzes	4%
Programming Assignment (Individual)	20%
Paper Study (Individual/Pair)	26%
Final Exam	36%

Additional Resources

Hey, T., & Pápay, G. (2015). The Computing Universe: A Journey through a Revolution. Cambridge University Press. (Available via HKUST Library e-resources)