

The Hong Kong University of Science and Technology

UG Course Syllabus

Digital Fundamentals and System Design [Fall 2024/25]

ELEC3310

4 credits

Exclusion(s): ELEC 2200, ISDN 4000D. Prerequisite(s): ELEC 1100

Name: Prof Levent YOBAS

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Course Description

Design and synthesis of digital circuits with main emphasis on sequential logic taught through project-based learning approach. Laboratory assignments make extensive use of VHDL and FPGAs and prepare students for an open-ended project undertaken in the remaining part of the course.

Assessments:

Assessment Task	Contribution to Overall Course grade (%)
Homework	0% <i>(Homework assignments will be graded and taken into consideration when further reference is needed about the student performance)</i>
Laboratory	25%
Project	15%
Mid-Term	25%
Final examination	35%

Required Texts and Materials (Textbook)

Title: Digital Fundamentals, Global Edition, 11th Edition

Author: Thomas L Floyd

Print Book ISBN: 9781292075983

Additional Resources (Reference Books/Materials):

Title: Digital Design, Global Edition, 6th Ed

Author: M. Morris Mano & Michael D. Ciletti

ISBN: 9781292231167