Global Learning Initiatives Program Course Syllabus

Please complete the following form in English. The information will be updated to the Global Learning Initiatives Program website for students' reference. If you will be offering more than one course, please fill out one form per course offered. Examples in grey.

Course Information

Course Name *provide the **English** course name of the course.	Microelectronic Devices and Technology
Lecturer(s) *provide the lecturers' **English** name. If there are more than one lecturer, please indicate all lecturers in the column.	Prof. Man Sun CHAN
Course Description *briefly describe the contents covered in the courses.	This is an introductory course for semiconductor device operation principles and technology in common electronic products such as integrated circuit (IC), camcorder, solar cell, memory elements, smartcard, etc. Topics covered include Semiconductor properties, IC fabrication technology, PN junctions, Bipolar Junction Transistors (BJT), MOSFETs, CCD and the future technology trend in the electronic industry.
Course Objectives *list out knowledge or skills students should acquire upon completion of course.	Please click here for the course syllabi. The syllabi is for reference only. Syllabi are subject to changes and adjustment to fit the teaching as deem appropriate by the course instructors.
Suggested Proficiencies (if any) *list preferred knowledge or skills students should have before taking the course.	Prerequisite(s): (Level 3 or above in HKDSE 1/2x or 1x Chemistry OR a passing grade in HKCEE Chemistry OR CHEM 1001 OR CHEM 1004) AND ELEC 2400, or equivalent. Please refer to HKUST UG Course Catalog for details (https://prog-crs.hkust.edu.hk/ugcourse/2021-22/ELEC).

Reading List (if any) *list out the textbooks, references, or other reading materials.	
Grading Criteria *how would the students be assessed during the course.	7% Viewing all videos 8% Homework 8% iPRS questions 10% Labs (online) 12% quizzes 45% final exam (online) 10% bonus for watching 90% videos on time, submitting all labs and classwork, taking all the exams, attempted 85% of the iPRS questions **Subject to changes and adjustment to fit the teaching as deem appropriate by the course instructor**

Course Schedule

Please complete the following table with the dates and expected course topics. If there are more than one lecturers instructing the course, please also indicate the lecturer for each class.

Class	Date (YYYY/MM/DD)	Course Topic	Lecturer
1	Asynchronous	Please click here for the course syllabi. The syllabi is for reference only. Syllabi are subject to changes and adjustment to fit the teaching as deem appropriate by the course instructors.	Prof. Man Sun CHAN