

City University of Hong Kong

**Information on a Course
offered by Department of Computer Science
with effect from Semester A in 2012 / 2013**

Part I

Course Title: Guided Study

Course Code: CS6534

Course Duration: One Semester

No. of Credit Units: 3

Level: P6

Medium of Instruction: English

Prerequisites: Nil

Precursors: Nil

Equivalent Courses: Nil

Exclusive Courses: Nil

Part II

Course Aims:

The aim of this course is to provide an opportunity to explore an area of computing in consultation with a member of the academic staff. The objectives are to develop in-depth knowledge of a chosen field of interest and to exercise the skill and techniques acquired in earlier courses. The students will also have the opportunity to develop documentation and presentation skill in conveying the results of his/her work.

Course Intended Learning Outcomes (CILOs)

Upon successful completion of this course, students should be able to:

No.	CILOs	Weighting (if applicable)
1.	identify a challenging computer related problem, analyze the problem in detail in the context of an extensive review of existing literature;	

2.	propose innovative solutions, formulate a detailed design of the solutions and comparison of the proposed solution with existing approaches;	
3.	document and report the system design process, background study and expected performance of the solution.	

Teaching and learning Activities (TLAs)

(Indicative of likely activities and tasks designed to facilitate students' achievement of the CILOs. Final details will be provided to students in their first week of attendance in this course)

Teaching pattern:

Suggested lecture/tutorial/laboratory mix: 8 hours individual consultation.

Each student is expected to solicit the support of an academic supervisor on a one to one basis for each project.

The role of the supervisor is to closely monitor the project progress with project meetings regularly, in order to give advice to the student, to establish criteria for assessment, and to advise on possible solutions and potential problems.

ILO No	TLAs	Hours/week (if applicable)
CILO 1	Planning for the project – This includes identifying the problem for investigation and drafting a project plan.	
CILO 2	Students will analyze the problem identified and research on existing and/or related solutions. Then, in consultation with their supervisors, they will propose their own designs and solutions.	
CILO 3	Students are required to produce regular progress reports and final report as an integral part of the project documentation. At the end, they are required to present their projects in the form of oral presentation and demonstration.	

Assessment Tasks/Activities

(Indicative of likely activities and tasks designed to assess how well the students achieve the CILOs. Final details will be provided to students in their first week of attendance in this course)

Each project is assessed under the following headings:

- (i) project management and individual development of the student (for CILO 1, assessment weighting 20%)
- (ii) technical merit of the proposed solution, including the degree of innovation in the proposed design (for CILO 2, assessment weighting 50%)
- (iii) standard of final documentation (for CILO 3, assessment weighting 20%)
- (iv) standard of oral presentation (for CILO 3, assessment weighting 10%).

For assessment of technical merit, report, and presentation, the project committee assigns two examiners, including the supervisor. The Supervisor is required to give detailed grading reports on all aspects of assessment. The Assessor will evaluate the CILOs 2 and 3 of the project. The Course Leader will review all projects, moderate consistency across a wide range of projects, and, where necessary, resolve discrepancies between grading of the Assessor and the Supervisor, drawing on the expertise of domain experts as needed.

Grading of Student Achievement: Refer to Grading of Courses in the Academic Regulations for Taught Postgraduate Degrees.

Coursework : 100 %

Part III

Keyword Syllabus:

Typical topic areas include: Computer Networks, Operating Systems, Distributed Systems, Software Engineering, Data Engineering, Performance Evaluation, Artificial Intelligence, Algorithms, Programming Languages, Multimedia Systems and Pervasive Computing. The project starts with a specification phase in which the student is to arrive at a set of problem statements and objectives. This is formalized in a project definition and study plan. During the course of the project, the student will be guided by a supervisor from the academic staff to produce the following reports: Project Definition, Survey of Related Work, Design/Analysis, Final Report (which may include any implementation and evaluation aspects).

Recommended Reading:

Text(s):

N/A

Online Resources:

N/A