Form 2B

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: Project

Course Code: CS6520

Course Duration: Two Semesters

No. of Credit Units: 6

Level: P6

Medium of Instruction: English

Prerequisites: Students should have completed at least 12 credit units (including two required courses)

Precursors: Nil

Equivalent Courses: Nil

Exclusive Courses: Nil

Part II

Course Aims:

This course aims to provide an opportunity for students to explore individually an area of computer science of their own choice. It allows students to develop their skill and knowledge further in the area of interest. It provides the context for students to demonstrate their ability to integrate specialized knowledge that they have acquired in other preceding and concurrent courses of study and apply them to solve an advanced problem with a working solution.

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; and propose innovative	

	solutions through computing means;	
2.	provide a proof-of-concept for the solution by designing and developing a working system or application;	
3.	implement and evaluate the developed system or application to match the initial system requirements;	
4.	document and report the system design process, study, implementation and evaluation findings using different communication media.	

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 per semester.

The course is designed to guide students in proposing and managing their own projects. Each student will find an academic staff to supervise the project on a one to one basis.

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 at an early stage. In particular, the supervisor is expected to encourage the student to explore innovative approaches and alert the student to the possibility of alternative and novel solutions to problems encountered.

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 with appropriate milestones.	
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 will implement the proposed solutions and validate their designs by testing and evaluating the completed.	
CILO 4	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 10%)
(ii) technical merit of the proposed solution, including the degree of innovation in the proposed design or solution (for CILO 2 & 3, assessment weighting 50%)
(iii) standard of final documentation (for CILO 4, assessment weighting 30%)
(iv) standard of oral presentation (for CILO 4, 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 2-4 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 %

Dissertation-type Course:

This course falls under the academic regulation for dissertation-type courses (AR11.4). The course assessed through 100% coursework.
Each student is assigned a supervisor from the academic staff for individual consultation.
The normal duration of the course is two semesters, after which the dissertation must be submitted.
The maximum duration of the course is four semesters, after which no further extension must be permitted.
Dissertation-type courses may NOT be repeated.

Part III

Keyword Syllabus:

The Project has no fixed formal syllabus. Each student will be required to undertake an individual piece of work, which is related to the computing areas. The topic area of the dissertation will be chosen so that the aims of the Project can be achieved. Criteria for topic choice include: (i) compatibility with a subject area of Computer Science, (ii) availability of a qualified supervisor; (iii) appropriate academic level; (iv)

availability of necessary specialized resources. Topic areas include: Computer Networks, Distributed Systems, Software Engineering, Data Engineering, Performance Evaluation, Multimedia Systems, Artificial Intelligence, Algorithms, Programming Languages, Information Security, Pervasive Computing.

Recommended Reading:

Text(s):

N/A

Online Resources:

N/A