Credit Unit System:
Information on Courses

1. **Course Title (English):**
   Distributed System Technologies and Programming I

2. **Course Code (3 digit number):**
   CS4273

3. **Course Aims & Objectives: (within 200 words)**
   - discuss advanced methodologies and skills of distributed system programming
   - introduce new technologies and programming environment of distributed systems
   - investigate design and implementation issues of distributed systems

4. **Units:** 3

5. **Level:** B4

6. **Keyword Syllabus: (within 100 words)**
   Distributed system architectures, client-server model, Inter Process Communication by sockets, remote procedure calls (RPC), distributed name services and DNS (Domain Name System), WWW (World Wide Web) and HTTP protocol, Java Applets, animation and applet network accesses, Java-DataBase Connections (JDBC), 2-tier / 3-tier system design, multi-thread programming, Internet programming.

7. **Teaching pattern:**
   *Duration of course:* 1 semester
   *Suggested lecture/tutorial/laboratory mix:* 2 hrs lecture; 1 hr. tutorial.

8. **Assessment pattern:**
   *Examination duration:* 2 hours
   *Percentage of coursework, examination, etc.:* 30% CW; 70% Exam
   *Grading pattern:* Standard (A+AA-…F)
   For a student to pass the course, at least 30% of the maximum mark for the examination must be obtained.

9. **Pre-requisites: (please quote course code & title)**
   **GROUP 1 OR GROUP 2 OR EQUIVALENT**
   *GROUP 1:* CS3262 Systems Software and Networks
   *OR*
   *GROUP 2:* (CS3161 Operating System Principles or CS3171 System Software or equivalent) and (CS3270 Fundamentals of Computer Networks and the Internet or EE2310 Networking I or EE3010 Data Communications and LANs or EE3015 Computer Networks) or equivalent
   *OR EQUIVALENT*
10. **Pre-cursor**: *(please quote course code & title)*
   Nil

11. **Equivalent Courses**: *(please quote course code & title)*
    *(for courses on the “old” curriculum, please quote “old” course code)*
    *CS3283  Distributed Systems (from the “old’ curriculum)*

**Returned by:**

Name: Mr C H Lee  
Department: CS  
Extension: 8610  
Date: 10 May 2006