1. **Course Title:**
   Mobile Computing

2. **Course Code:**
   CS4284

3. **Course Aims & Objectives:**
   This course aims at providing a comprehensive overview of the many issues related to mobile computing. These issues are grouped under three areas: networking, services and protocols. Protocols such as Mobile IP, as well as routing mechanisms and mobility management strategies that are needed to support mobile devices are discussed. Wireless Ad hoc networks are also studied extensively.

   Upon successful completion of the course, the student are able to:
   - understand the systems issues related to mobile computing;
   - apply some of the solutions proposed by researchers to these issues;
   - evaluate and design mobile network systems.

4. **Units:** 3

5. **Level:** B4

6. **Keyword Syllabus:**

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)*
   CS3201 Computer Networks or
   CS3900 Computer Networks or
   *EE3016 (old code EE4010) WANs and Communication Protocols or*
   EE3311 Networking II or equivalent

10. **Pre-cursor:** *(please quote course code & title)*
    Nil

11. **Equivalent Courses:** *(please quote course code & title)*
    Nil

12. **Equivalent to the Old Course Code & Title**
    IT4701 Mobile Computing

13. **Exclusive Course:**
    *EE4316 Mobile Data Networks*

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**Returned by:**

Name: Prof Horace Ip  
Department: Computer Science

Extension: 8641  
Date: 10 May 2006